



Duane Arnold Energy Center
3277 DAEC Road
Palo, Iowa 52324

April 2, 2020

NG-19-0142
10 CFR 50.12
10 CFR 50.47
10 CFR 50, Appendix E

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Duane Arnold Energy Center
Docket No. 50-331
Renewed Op. License No. DPR-49

Request for Exemption from Portions of 10 CFR 50.47 and 10 CFR 50, Appendix E

Reference: Letter from NEDA (D. Curtland) to USNRC, "Certification of Permanent Cessation of Power Operations," NG-19-0136, dated March 2, 2020 (ML20062E489)

Pursuant to 10 CFR 50.12, NextEra Energy Duane Arnold, LLC (NEDA) requests exemptions from portions of 10 CFR 50.47(b), 10 CFR 50.47(c)(2) and 10 CFR 50, Appendix E for the Duane Arnold Energy Center (DAEC). The requested exemptions would allow NEDA to reduce emergency planning requirements and subsequently revise the DAEC Emergency Plan consistent with the anticipated permanently defueled condition of the station.

In the reference letter, NEDA provided formal notification to the U.S. Nuclear Regulatory Commission (NRC) pursuant to 10 CFR 50.82(a)(1)(i) and 10 CFR 50.4(b)(8) of the intention to permanently cease power operations at the DAEC on October 30, 2020. After the certifications of permanent cessation of power operation and of permanent removal of fuel from the reactor vessel are docketed for DAEC, in accordance with 10 CFR 50.82(a)(1)(i) and (ii), and pursuant to 10 CFR 50.82(a)(2), the 10 CFR 50 license will no longer authorize reactor operation or emplacement or retention of fuel in the reactor vessel.

The requested exemptions are permissible under 10 CFR 50.12 because they are authorized by law, will not present an undue risk to the public health and safety, are consistent with the common defense and security, and present special circumstances.

More specifically, application of the portions of the regulations from which exemptions are sought is not necessary to ensure adequate emergency response capability for DAEC and to achieve the underlying purpose of the rules in the permanently shut down and defueled condition. Furthermore, continued application of these portions of the regulations from which exemptions are sought would impose a burden on NEDA and its co-owners of DAEC and their decommissioning trust funds by requiring implementation of unnecessary emergency response capability.

The exemption requests are contained in Attachment 1 to this letter. NEDA has performed an analysis which shows that, 10 months after shutdown, the spent fuel stored in the spent fuel pool will have decayed to the extent that the requested exemptions may be implemented at DAEC without any additional compensatory actions. 10 months after the planned October 30, 2020 permanent shutdown of DAEC would be August 30, 2021. This analysis is contained in Attachment 2.

Attachment 3 contains an analysis to determine the dose rate as a function of time after shutdown at the DAEC Exclusion Area Boundary and Control Room from a Spent Fuel Pool (SFP) drain down event while in SAFSTOR.

NEDA will submit a permanently defueled emergency plan, containing a permanently defueled emergency action level scheme, for NRC review and approval pursuant to 10 CFR 50.54(q)(4) and 10 CFR 50, Appendix E, Section IV.B.2. The proposed emergency plan will be based on the exemptions requested herein.

NEDA requests review and approval of this exemption request by April 1, 2021 with an effective date no less than 10 months after shutdown. Approval of these exemptions by March 1, 2021 will allow NEDA adequate time to implement changes to the emergency plan and emergency response organization by the requested effective date.

Attachment 4 of this letter contains one new regulatory commitment.

If you have questions regarding this submittal, please contact J. Michael Davis, Licensing Manager at 319-851-7032.



Dean Curtland
Site Director, Duane Arnold Energy Center
NextEra Energy Duane Arnold, LLC

- Attachments:
1. Request for Exemptions from Portions of 10 CFR 50.47(b), 10 CFR 50.47(c)(2) and 10 CFR 50, Appendix E
 2. Calculation CAL-M19-001, "Adiabatic Heatup Analysis of Drained Spent Fuel Pool (Zirconium Fire) "
 3. Calculation CAL-R19-002, "Dose at Site Exclusion Area Boundary and Main Control Room Due to Shine from Drained Spent Fuel Pool During SAFSTOR"
 4. List of Regulatory Commitments

cc: NRC Region III Administrator
NRC Resident Inspector
NRC Project Manager
A. Leek, State of Iowa

NG-19-0142

Attachment 1

Duane Arnold Energy Center

Request for Exemptions from Portions of 10 CFR 50.47(b), 10 CFR 50.47(c)(2)
and 10 CFR Part 50, Appendix E

59 pages follow

1. Summary Description

Pursuant to 10 CFR 50.12 "Specific exemptions, " NextEra Energy Duane Arnold, LLC (NEDA) requests the following regulatory exemptions for the Duane Arnold Energy Center (DAEC):

- Certain standards in 10 CFR 50.47(b) regarding onsite and offsite emergency response plans for nuclear power reactors;
- Certain requirements of 10 CFR 50.47(c)(2) to establish Plume Exposure and Ingestion Pathway Emergency Planning Zones (EPZs) for nuclear power plants; and
- Certain requirements of 10 CFR 50, Appendix E, which establishes the elements that make up the content of emergency plans.

2. Background

DAEC is located near the town of Palo, Iowa in Linn County, and consists of approximately 500 acres adjacent to the Cedar River. DAEC is a boiling water reactor with a rated thermal power of 1912 MWt. A detailed description of the plant is given in the DAEC Updated Final Safety Analysis Report (UFSAR). An Independent Spent Fuel Storage Installation (ISFSI) is situated on the owner controlled area. A detailed description of the ISFSI is found in the "Updated Final Safety Analysis Report for the Standardized Nuhoms[®] Horizontal Modular Storage System for Irradiated Nuclear Fuel. "

By letter dated March 2, 2020 (Reference 2), pursuant to 10 CFR 50.82(a)(1)(i), NEDA submitted a certification to the NRC indicating its intention to permanently cease power operations at DAEC on October 30, 2020. Once fuel has been permanently removed from the reactor vessel, NEDA will submit a written certification to the NRC, in accordance with 10 CFR 50.82(a)(1)(ii) that meets the requirements of 10 CFR 50.4(b)(9). Upon docketing of these certifications, the 10 CFR Part 50 license for DAEC will no longer authorize operation of the reactor or emplacement or retention of fuel into the reactor vessel, as specified in 10 CFR 50.82(a)(2).

Chapter 15 of the UFSAR describes the safety analysis aspects of DAEC that were evaluated to demonstrate that the plant could be operated safely and that radiological consequences from postulated accidents do not exceed regulatory requirements. When the reactor is permanently defueled, the SFP and its supporting systems will be dedicated only to spent fuel storage. Irradiated fuel will continue to be stored in the SFP and the ISFSI until it is removed by the Department of Energy. Additionally, the reactor vessel assembly and supporting structures and systems are no longer in operation and have no function related to the safe storage and management of irradiated fuel in the SFP. Consequently, the only UFSAR Chapter 15 design-basis accident scenario that remains credible in the permanently defueled condition, with fuel stored in the SFP, is a fuel handling accident (FHA).

3. Detailed Description

The current 10 CFR Part 50 regulatory requirements for emergency planning (developed for operating reactors) ensure the health and safety of the public while DAEC is licensed to operate. However, once the station is permanently shut down and defueled, some of these requirements exceed what is necessary to protect the health and safety of the public. In order to allow a reduction in emergency planning requirements commensurate with the hazards

associated with DAEC's permanently defueled condition, exemptions from portions of 10 CFR 50.47(b), 50.47(c)(2), and 10 CFR 50, Appendix E, are needed.

NEDA has performed an analysis indicating that, within 10 months after shutdown, the spent fuel in the spent fuel pool (SFP) will have decayed to the extent that the requested exemptions can be implemented at DAEC without any compensatory actions. This analysis is included in Attachment 2. Separate from this request, NEDA plans to submit a Permanently Defueled Emergency Plan, including a Permanently Defueled Emergency Action Level scheme, for NRC review and approval pursuant to 10 CFR 50.54(q)(4) and 10 CFR 50, Appendix E, Section IV.B.2. The proposed emergency plan will be based on the exemptions requested herein.

Based on the analysis detailed in Section 4 below, NEDA has concluded that the portions of 10 CFR 50.47(b), 10 CFR 50.47(c)(2) and 10 CFR 50, Appendix E, identified in Tables 1 and 2, will not be necessary to protect the health and safety of the public once DAEC is in the permanently defueled condition, and would be unduly burdensome. Approval of the exemptions requested in Tables 1 and 2 would not present an undue risk to the public or prevent appropriate response in the event of an emergency at DAEC.

The requested exemptions and justification for each are based on, and consistent with, Interim Staff Guidance (ISG) NSIR/DPR-ISG-02, "Emergency Planning Exemption Requests for Decommissioning Nuclear Power Plants" (Reference 1).

EXEMPTIONS TO EMERGENCY PLAN REQUIREMENTS DEFINED BY 10 CFR 50.47 AND APPENDIX E TO PART 50

NEDA requests exemptions from portions of 10 CFR 50.47(b) and (c)(2) and Appendix E to 10 CFR Part 50 to the extent that these regulations apply to specific provisions of onsite and offsite emergency planning that will no longer be applicable to DAEC once the certifications required by 10 CFR 50.82(a)(1)(i) and (ii) have been submitted and sufficient decay of the spent fuel has occurred. The specific portions of 10 CFR 50.47 and 10 CFR Part 50, Appendix E from which exemptions are being requested are identified using strikethrough text in Table 1 (Exemptions Requested from 10 CFR 50.47(b) and (c)(2)) and Table 2 (Exemptions Requested from 10 CFR Part 50, Appendix E) below. The portions of regulation that are not identified using strikethrough text (i.e., those portions for which exemption is not being requested), will remain applicable to DAEC. Details related to specific exemption requests are provided in the Basis for Exemption column.

Table 1		
Exemptions Requested from 10 CFR 50.47(b) and 50.47(c)(2)		
Item #	Regulation in 10 CFR 50.47	Basis for Exemption
1	10 CFR 50.47(b): The onsite and, except as provided in paragraph (d) of this section, offsite emergency response plans for nuclear power reactors must meet the following standards:	<p>In the Statement of Considerations for the Final rule - 10 CFR Part 72, "Emergency Planning Licensing Requirements for Independent Spent Fuel Storage Facilities (ISFSI) and Monitored Retrievable Storage Facilities (MRS)," (Reference 3), the Commission responded to comments concerning offsite emergency planning for ISFSIs or an MRS and concluded that, "the offsite consequences of potential accidents at an ISFSI or a MRS installation would not warrant establishing Emergency Planning Zones."</p> <p>In a nuclear power reactor's permanently defueled state, the accident risks are more similar to an ISFSI or MRS than an operating nuclear power plant. The draft proposed rulemaking in SECY-00-0145 (Reference 5) suggested that after at least one year of spent fuel decay time, the decommissioning licensee would be able to reduce its EP program to one similar to that required for an MRS under 10 CFR 72.32(a) and additional EP reductions would occur when: (1) approximately five years of spent fuel decay time has elapsed; or (2) a licensee has demonstrated that the decay heat level of spent fuel in the pool is low enough that the fuel would not be susceptible to a zirconium fire for all spent fuel configurations. The EP program would be similar to that required for an ISFSI under 10 CFR 72.32(a) when fuel stored in the SFP has more than five years of decay time and would not change substantially when all the fuel is transferred from the SFP to an onsite</p>

Table 1		
Exemptions Requested from 10 CFR 50.47(b) and 50.47(c)(2)		
Item #	Regulation in 10 CFR 50.47	Basis for Exemption
		<p>ISFSI. Exemptions from offsite EP requirements have been approved when the specific site analyses show that at least ten hours is available from a partial drain down event where cooling of the spent fuel is not effective until the hottest fuel assembly reaches 900°C. Because ten hours allows sufficient time to initiate mitigative actions to prevent a zirconium fire in the SFP or to initiate ad hoc offsite protective actions, offsite EP plans are not necessary for these permanently defueled nuclear power plant licensees.</p> <p>NEDA has performed an analysis (Attachment 1) indicating that after the spent fuel has decayed for 10 months, for beyond design basis events where the SFP is fully drained and air cooling is not credited, 10 hours is available to take mitigative actions or, if needed, implement offsite protective actions using a comprehensive approach to emergency planning from the time spent fuel cooling is lost until the hottest fuel assembly reaches a temperature of 900°C.</p> <p>Additional NEDA analysis (Attachment 2) has demonstrated that within 9 months after permanent cessation of power operations, the radiological consequences of the postulated accident will not exceed the limits of the U.S. Environmental Protection Agency's (EPA's) Protective Action Guides (PAGs) at the Exclusion Area Boundary (EAB). (Reference 7)</p> <p>NEDA maintains procedures and strategies for the movement of any necessary portable equipment that will be relied upon for mitigating the loss of SFP water. These mitigative strategies, addressing events involving a loss of SFP cooling and/or water inventory, include implementation of SFP inventory makeup strategies required under 10 CFR 50.54(hh)(2), which will continue to be maintained to satisfy applicable License Conditions of the Renewed Facility License. These diverse strategies provide defense-in-depth and ample time to provide</p>

Table 1		
Exemptions Requested from 10 CFR 50.47(b) and 50.47(c)(2)		
Item #	Regulation in 10 CFR 50.47	Basis for Exemption
		makeup water or spray to the SFP prior to the onset of zirconium cladding ignition when considering very low probability beyond design basis events affecting the SFP. The on-shift individuals described in the Permanently Defueled Emergency Plan will be able to implement the necessary tasks within the required timeframe.
2	10 CFR 50.47(b)(1): Primary responsibilities for emergency response by the nuclear facility licensee and by State and local organizations within the Emergency Planning Zones have been assigned, the emergency responsibilities of the various supporting organizations have been specifically established, and each principal response organization has staff to respond and to augment its initial response on a continuous basis.	Refer to basis for 10 CFR 50.47(b).
3	10 CFR 50.47(b)(2): On-shift facility licensee responsibilities for emergency response are unambiguously defined, adequate staffing to provide initial facility accident response in key functional areas is maintained at all times, timely augmentation of response capabilities is available and the interfaces among various onsite response activities and offsite support and response activities are specified.	No exemption is requested.
4	10 CFR 50.47(b)(3): Arrangements for requesting and effectively using assistance resources have been made, arrangements to accommodate State and local staff at the licensee's Emergency Operations Facility have been made, and other organizations capable of augmenting the planned response have been identified.	<p>Discontinuing offsite emergency planning activities and reducing the scope of onsite emergency planning is acceptable given the significantly reduced offsite consequences once DAEC is in the permanently defueled condition. The DAEC Emergency Plan will continue to maintain arrangements for requesting and using assistance resources from offsite support organizations.</p> <p>Decommissioning power reactors present a low likelihood of any credible accident resulting in radiological releases requiring offsite protective measures because of the permanently shut down and defueled status of the reactor. An Emergency Operations Facility (EOF) is not required. The control room or other location can provide for the</p>

Table 1		
Exemptions Requested from 10 CFR 50.47(b) and 50.47(c)(2)		
Item #	Regulation in 10 CFR 50.47	Basis for Exemption
		<p>communication and coordination with offsite organizations for the level of support required.</p> <p>Offsite emergency measures are limited to support provided by local police, fire departments, and ambulance and hospital services as appropriate.</p> <p>Also refer to basis for 10 CFR 50.47(b).</p>
5	<p>10 CFR 50.47(b)(4): A standard emergency classification and action level scheme, the basis of which include facility system and effluent parameters, is in use by the nuclear facility licensee, and State and local response plans call for reliance on information provided by facility licensees for determinations of minimum initial offsite response measures.</p>	<p>NEDA will adopt the Permanently Defueled Emergency Action Levels (EALs) detailed in Appendix C of Nuclear Energy Institute (NEI) 99-01, "Development of Emergency Action Levels for Non-Passive Reactors," Revision 6 (Reference 4), endorsed by the NRC in a letter dated March 28, 2013 (Reference 6). No offsite protective actions are anticipated to be necessary, so classification above the Alert level will no longer be required.</p> <p>Also refer to basis for 10 CFR 50.47(b).</p>
6	<p>10 CFR 50.47(b)(5): Procedures have been established for notification, by the licensee, of State and local response organizations and for notification of emergency personnel by all organizations; the content of initial and followup messages to response organizations and the public has been established; and means to provide early notification and clear instruction to the populace within the plume exposure pathway Emergency Planning Zone have been established.</p>	<p>Per SECY-00-0145 (Reference 5), after approximately 1 year of spent fuel decay time, the NRC staff believes an exception to the offsite EPA PAG standard is justified for a zirconium fire scenario considering the low likelihood of this event together with time available to take mitigative or protective actions between the initiating event and before the onset of a postulated fire. The spent fuel scoping study (Reference 22) provides that depending on the size of the pool liner leak, releases could start anywhere from eight hours to several days after the leak starts, assuming that mitigation measures are unsuccessful. If 10 CFR 50.54(hh)(2) type of mitigation measures are successful, releases could only occur during the first several days after the fuel came out of the reactor. NEDA analysis shows that after the spent fuel has decayed for 10 months, if the SFP is fully drained and air cooling is not credited, 10 hours are available until the hottest fuel assembly reaches a temperature of 900°C. This is adequate time to take mitigative or, if</p>

Table 1		
Exemptions Requested from 10 CFR 50.47(b) and 50.47(c)(2)		
Item #	Regulation in 10 CFR 50.47	Basis for Exemption
		needed, offsite protective actions using a comprehensive approach to emergency planning. No offsite protective actions are anticipated to be necessary. Therefore, offsite EP plans are not necessary for permanently defueled nuclear power plants. Also refer to basis for 10 CFR 50.47(b).
7	10 CFR 50.47(b)(6): Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.	Refer to basis for 10 CFR 50.47(b).
8	10 CFR 50.47(b)(7): Information is made available to the public on a periodic basis on how they will be notified and what their initial actions should be in an emergency (e.g., listening to a local broadcast station and remaining indoors), [T]he principal points of contact with the news media for dissemination of information during an emergency (including the physical locations) are established in advance, and procedures for coordinated dissemination of information to the public are established.	Refer to basis for 10 CFR 50.47(b).
9	10 CFR 50.47(b)(8): Adequate emergency facilities and equipment to support the emergency response are provided and maintained.	No exemption is requested.
10	10 CFR 50.47(b)(9): Adequate methods, systems, and equipment for assessing and monitoring actual or potential offsite consequences of a radiological emergency condition are in use.	Refer to basis for 10 CFR 50.47(b).
11	10 CFR 50.47(b)(10): A range of protective actions has been developed for the plume exposure pathway EPZ for emergency workers and the public. In developing this range of actions, consideration has been given to evacuation, sheltering, and, as a supplement to these, the prophylactic use of potassium iodide (KI), as appropriate. Evacuation time estimates have been developed by applicants and	In the unlikely event of a SFP accident, the iodine isotopes which contribute to an off-site dose from an operating reactor accident are not present, so potassium iodide (KI) distribution off-site would no longer serve as an effective or necessary supplemental protective action. Protective actions will be maintained for emergency workers and any offsite emergency responders who would respond to the site.

Table 1		
Exemptions Requested from 10 CFR 50.47(b) and 50.47(c)(2)		
Item #	Regulation in 10 CFR 50.47	Basis for Exemption
	<p>licensees. Licensees shall update the evacuation time estimates on a periodic basis. Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.</p>	<p>The Commission responded to comments in its Statement of Considerations for the Final Rule for emergency planning requirements for ISFSIs and MRS facilities (60 FR 32435) (Reference 3), and concluded that, "the offsite consequences of potential accidents at an ISFSI or a MRS would not warrant establishing Emergency Planning Zones." Additionally, in the Statement of Considerations for the Final Rule for EP requirements for ISFSI and for MRS facilities (60 FR 32430) (Reference 3), the Commission responded to comments concerning site-specific emergency planning that includes evacuation of surrounding population for an ISFSI, not at a reactor site, and concluded that, "The Commission does not agree that as a general matter emergency plans for an ISFSI must include evacuation planning."</p> <p>Because the NRC concludes that evacuation planning is not needed for a decommissioning reactor site that meets the criteria for an exemption from offsite EP requirements as discussed in the exemption from 10 CFR 50.47(b), evacuation time estimates are also not needed.</p> <p>Also refer to the basis for 10 CFR 50.47(b) detailing the low likelihood of any credible accident resulting in radiological releases requiring offsite protective measures and the basis for Section IV.1 exemptions for a discussion on the similarity between a permanently defueled reactor and a non-power reactor.</p>
12	<p>10 CFR 50.47(b)(11): Means for controlling radiological exposures, in an emergency, are established for emergency workers. The means for controlling radiological exposures shall include exposure guidelines consistent with EPA Emergency Worker and Lifesaving Activity Protective Action Guides.</p>	<p>No exemption is requested.</p>
13	<p>10 CFR 50.47(b)(12): Arrangements are made for medical</p>	<p>No exemption is requested.</p>

Table 1		
Exemptions Requested from 10 CFR 50.47(b) and 50.47(c)(2)		
Item #	Regulation in 10 CFR 50.47	Basis for Exemption
	services for contaminated injured individuals.	
14	10 CFR 50.47(b)(13): General plans for recovery and reentry are developed.	No exemption is requested.
15	10 CFR 50.47(b)(14): Periodic exercises are (will be) conducted to evaluate major portions of emergency response capabilities, periodic drills are (will be) conducted to develop and maintain key skills, and deficiencies identified as a result of exercises or drills are (will be) corrected.	No exemption is requested.
16	10 CFR 50.47(b)(15): Radiological emergency response training is provided to those who may be called on to assist in an emergency.	No exemption is requested.
17	10 CFR 50.47(b)(16): Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.	No exemption is requested.
18	10 CFR 50.47(c)(2): Generally, the plume exposure pathway EPZ for nuclear power plants shall consist of an area about 10 miles (16 km) in radius and the ingestion pathway EPZ shall consist of an area about 50 miles (80 km) in radius. The exact size and configuration of the EPZs surrounding a particular nuclear power reactor shall be determined in relation to local emergency response needs and capabilities as they are affected by such conditions as demography, topography, land characteristics, access routes, and jurisdictional boundaries. The size of the EPZs also may be determined on a case-by-case basis for gas cooled nuclear reactors and for reactors with an authorized power level less than 250 MW thermal. The plans for the ingestion pathway shall focus on such actions as are appropriate to protect the food ingestion pathway.	Refer to basis for 10 CFR 50.47(b)(10).

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
19	<p>10 CFR 50 App E</p> <p>III. The Final Safety Analysis Report; Site Safety Analysis Report</p> <p>The final safety analysis report or the site safety analysis report for an early site permit that includes complete and integrated emergency plans under § 52.17(b)(2)(ii) of this chapter shall contain the plans for coping with emergencies. The plans shall be an expression of the overall concept of operation; they shall describe the essential elements of advance planning that have been considered and the provisions that have been made to cope with emergency situations. The plans shall incorporate information about the emergency response roles of supporting organizations and offsite agencies. That information shall be sufficient to provide assurance of coordination among the supporting groups and with the licensee. The site safety analysis report for an early site permit which proposes major features must address the relevant provisions of 10 CFR 50.47 and 10 CFR part 50, appendix E, within the scope of emergency preparedness matters addressed in the major features. The plans submitted must include a description of the elements set out in Section IV for the emergency planning zones (EPZs) to an extent sufficient to demonstrate that the plans provide reasonable assurance that adequate protective measures can and will be taken in the event of an emergency.</p>	No exemption is requested.
20	10 CFR 50 App E	Following docketing of its "Certification of Permanent Removal of Fuel from the Reactor Vessel," in accordance with 10 CFR 50.82(a)(1)(ii),

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	<p>IV Content of Emergency Plans</p> <p>1. The applicant's emergency plans shall contain, but not necessarily be limited to, information needed to demonstrate compliance with the elements set forth below, i.e., organization for coping with radiological emergencies, assessment actions, activation of emergency organization, notification procedures, emergency facilities and equipment, training, maintaining emergency preparedness, and recovery, and onsite protective actions during hostile action. In addition, the emergency response plans submitted by an applicant for a nuclear power reactor operating license under this part, or for an early site permit (as applicable) or combined license under 10 CFR part 52, shall contain information needed to demonstrate compliance with the standards described in § 50.47(b), and they will be evaluated against those standards.</p>	<p>DAEC will become a permanently shut down facility with spent fuel stored in the SFP. In the EP Final Rule (76 FR 72596, Nov. 23, 2011) (Reference 8), the NRC defined "hostile action" as, in part, an act directed toward a nuclear power plant or its personnel. This definition is based on the definition of "hostile action" provided in NRC Bulletin 2005-02. NRC Bulletin 2005-02 was not applicable to nuclear power reactors that have permanently ceased operations and have certified that fuel has been removed from the reactor vessel. The NRC excluded non-power reactors (NPRs) from the definition of "hostile action" at that time because an NPR is not a nuclear power plant and a regulatory basis had not been developed to support the inclusion of NPR in that definition. Similarly, a decommissioning power reactor or ISFSI is not a "nuclear reactor" as defined in the NRC's regulations.</p> <p>The following similarities between DAEC and NPRs show that the DAEC facility should be treated in a similar fashion as an NPR. Similar to NPRs, DAEC will pose lower radiological risks to the public from accidents than do power reactors because: (1) DAEC will be a permanently shut down facility (with fuel stored in the SFP and ISFSI) and will no longer generate fission products; 2) Fuel stored in the DAEC SFP will have lower decay heat resulting in lower risk of fission product release in the event of a non-credible boil off or drain down event; and 3) no credible accident at DAEC will result in radiological releases requiring offsite protective actions.</p>
21	<p>IV.2 This nuclear power reactor license applicant shall also provide an analysis of the time required to evacuate various sectors and distances within the plume exposure pathway EPZ for transient and permanent populations, using the most recent U.S. Census Bureau data as of the date the applicant submits its application to the NRC.</p>	<p>Refer to basis for 10 CFR 50.47(b)(10).</p>
22	<p>IV. 3 Nuclear power reactor licensees shall use NRC-approved evacuation time estimates (ETEs) and updates to</p>	<p>Refer to basis for 10 CFR 50.47(b)(10).</p>

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	the ETEs in the formulation of protective action recommendations and shall provide the ETEs and ETE updates to State and local governmental authorities for use in developing offsite protective action strategies.	
23	IV.4 Within 365 days of the later of the date of the availability of the most recent decennial census data from the U.S. Census Bureau or December 23, 2011, nuclear power reactor licensees shall develop an ETE analysis using the decennial data and submit it under § 50.4 to the NRC. These licensees shall submit this ETE analysis to the NRC at least 180 days before using it to form protective action recommendations and providing it to State and local governmental authorities for use in developing offsite protective action strategies.	Refer to basis for 10 CFR 50.47(b)(10).
24	IV.5 During the years between decennial censuses, nuclear power reactor licensees shall estimate EPZ permanent resident population changes once a year, but no later than 365 days from the date of the previous estimate, using the most recent U.S. Census Bureau annual resident population estimate and State/local government population data, if available. These licensees shall maintain these estimates so that they are available for NRC inspection during the period between decennial censuses and shall submit these estimates to the NRC with any updated ETE analysis.	Refer to basis for 10 CFR 50.47(b)(10).
25	IV.6 If at any time during the decennial period, the EPZ permanent resident population increases such that it causes the longest ETE value for the 2 mile zone or 5 mile zone, including all affected Emergency Response Planning Areas, or for the entire 10 mile EPZ to increase by 25 percent or 30 minutes, whichever is less, from the nuclear power reactor licensee's currently NRC approved or updated ETE, the licensee shall update the ETE analysis to reflect the impact of	Refer to basis for 10 CFR 50.47(b)(10).

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	that population increase. The licensee shall submit the updated ETE analysis to the NRC under § 50.4 no later than 365 days after the licensee's determination that the criteria for updating the ETE have been met and at least 180 days before using it to form protective action recommendations and providing it to State and local governmental authorities for use in developing offsite protective action strategies.	
26	IV 7 After an applicant for a combined license under part 52 of this chapter receives its license, the licensee shall conduct at least one review of any changes in the population of its EPZ at least 365 days prior to its scheduled fuel load. The licensee shall estimate EPZ permanent resident population changes using the most recent U.S. Census Bureau annual resident population estimate and State/local government population data, if available. If the EPZ permanent resident population increases such that it causes the longest ETE value for the 2-mile zone or 5-mile zone, including all affected Emergency Response Planning Areas, or for the entire 10-mile EPZ, to increase by 25 percent or 30 minutes, whichever is less, from the licensee's currently approved ETE, the licensee shall update the ETE analysis to reflect the impact of that population increase. The licensee shall submit the updated ETE analysis to the NRC for review under § 50.4 of this chapter no later than 365 days before the licensee's scheduled fuel load.	No exemption is requested. NEDA is not an applicant for a combined license, and therefore, this regulation is not applicable to DAEC.
27	A. Organization The organization for coping with radiological emergencies shall be described, including definition of authorities, responsibilities, and duties of individuals assigned to the licensee's emergency organization and the means for	No exemption is requested.

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	notification of such individuals in the event of an emergency. Specifically, the following shall be included:	
28	A.1. A description of the normal plant operating -organization.	Following docketing of the certifications required by 10 CFR 50.82(a)(1), DAEC will not be a facility that can be operated to generate electrical power. Therefore, DAEC will not have a "plant operating organization." Rather, the station will be maintained by a defueled on-shift staff.
29	A.2. A description of the onsite emergency response organization (ERO) with a detailed discussion of: a. Authorities, responsibilities, and duties of the individual(s) who will take charge during an emergency; b. Plant staff emergency assignments; c. Authorities, responsibilities, and duties of an onsite emergency coordinator who shall be in charge of the exchange of information with offsite authorities responsible for coordinating and implementing offsite emergency measures.	No exemption is requested.
30	A.3. A description, by position and function to be performed, of the licensee's headquarters personnel who will be sent to the plant site to augment the onsite emergency organization.	The number of staff at DAEC during the decommissioning process will be small but commensurate with the need to safely store spent fuel at the facility in a manner that is protective of public health and safety. Decommissioning sites typically have a level of emergency response that does not require response by headquarters personnel.
31	A.4. Identification, by position and function to be performed, of persons within the licensee organization who will be responsible for making offsite dose projections and a description of how these projections will be made and the results transmitted to State and local authorities, NRC, and other appropriate governmental entities.	Analyses have been developed indicating that, within 10 months after shutdown, no credible accident at DAEC will result in radiological releases requiring offsite protective actions. NEDA will maintain the capability to determine if a radiological release is occurring. If a release is occurring, then NEDA will promptly

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		communicate that information to offsite authorities for their consideration. The offsite organizations are responsible for deciding what, if any, protective actions should be taken.
32	A 5. Identification, by position and function to be performed, of other employees of the licensee with special qualifications for coping with emergency conditions that may arise. Other persons with special qualifications, such as consultants, who are not employees of the licensee and who may be called upon for assistance for emergencies shall also be identified. The special qualifications of these persons shall be described.	The time available to initiate compensatory actions in the event of a loss of SFP cooling or inventory precludes the need to identify and describe the special qualification of these individuals in the emergency plan. The number of staff at DAEC, once it is in the permanently defueled state, will be small but commensurate with the need to operate the facility in a manner that is protective of public health and safety.
33	A 6. A description of the local offsite services to be provided in support of the licensee's emergency organization.	No exemption is requested.
34	A.7. By June 23, 2014, identification of, and a description of the assistance expected from, appropriate State, local and Federal agencies with responsibilities for coping with emergencies, including hostile action at the site. For purposes of this appendix, "hostile action" is defined as an act directed toward a nuclear power plant or its personnel that includes the use of violent force to destroy equipment, take hostages, and/or intimidate the licensee to achieve an end. This includes attack by air, land, or water using guns, explosives, projectiles, vehicles, or other devices used to deliver destructive force.	<p>A decommissioning power reactor has a low likelihood of a credible accident resulting in radiological releases requiring offsite protective measures. For this reason and those described in the basis for Section IV.1 of 10 CFR Part 50, Appendix E, a decommissioning power reactor is not a facility that falls within the definition of "hostile action."</p> <p>Similarly, for security, risk insights can be used to determine which targets are important to protect against sabotage. A level of security commensurate with the consequences of a sabotage event is required and is evaluated on a site-specific basis.</p> <p>Although, the analysis described above and in the basis for 10 CFR Part 50, Appendix E, Section IV.1 provides a justification for exempting NEDA from "hostile action" related requirements, some EP requirements for security-based events will be maintained. The classification of security-based events, notification of offsite authorities, and coordination with offsite agencies under a comprehensive emergency management plan concept will still be</p>

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		<p>required.</p> <p>NEDA will maintain appropriate actions for the protection of onsite personnel in a security-based event. The scope of protective actions will be appropriate for the defueled plant status, but will not be the same as actions necessary for an operating power plant. Although the NRC has previously exempted decommissioning power reactors from "hostile action" considerations, the DAEC Physical Security Plan will continue to provide high assurance against a potential security event impacting a designated target set. Therefore, some EP requirements for security-based events are maintained. Protective actions are maintained for onsite personnel through the classification of security-based events, notification of offsite authorities, and coordination of offsite response organizations (i.e., local law enforcement, firefighting, medical assistance) onsite under a comprehensive emergency management plan.</p>
35	<p>A 8. Identification of the State and/or local officials responsible for planning for, ordering, and controlling appropriate protective actions, including evacuations when necessary.</p>	<p>Offsite emergency measures are limited to support provided by local police, fire departments, and ambulance and hospital services as appropriate. Because analyses have been developed indicating that within 10 months after shutdown, no credible accident at DAEC will result in radiological releases requiring offsite protective actions, protective actions such as evacuation should not be required.</p> <p>Also refer to basis for 10 CFR 50.47(b)(10).</p>
36	<p>A 9. By December 24, 2012, for nuclear power reactor licensees, a detailed analysis demonstrating that on shift personnel assigned emergency plan implementation functions are not assigned responsibilities that would prevent the timely performance of their assigned functions as specified in the emergency plan.</p>	<p>Responsibilities of the on-shift and emergency response personnel will be detailed in the Permanently Defueled Emergency Plan and implementing procedures and will be regularly tested through drills and exercises, audited, and inspected by NEDA and the NRC. The duties of the on-shift personnel at a decommissioning reactor facility are not as complicated and diverse as those for an operating power reactor.</p>

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		<p>In the EP Final Rule (Reference 8), the NRC acknowledged that the staffing analysis requirement was not necessary for non-power reactor licensees because staffing at non-power reactors is generally small, which is commensurate with operating the facility in a manner that is protective of the public health and safety. The minimal systems and equipment needed to maintain the spent nuclear fuel in the spent fuel pool or in a dry cask storage system in a safe condition requires minimal personnel and is governed by Technical Specifications. Because of the slow rate of the event scenarios postulated in the design basis accident and postulated beyond design basis accident analyses, and because the duties of the on-shift personnel at a decommissioning reactor facility are not as complicated and diverse as those for an operating reactor, significant time is available to complete actions necessary to mitigate an emergency without impeding timely performance of emergency plan functions. For all of these reasons, it can be concluded that a decommissioning nuclear power plant is exempt from the requirement of 10 CFR Part 50, Appendix E, Section IV.A.9.</p>
37	<p>B. Assessment Actions</p> <p>B.1. The means to be used for determining the magnitude of, and for continually assessing the impact of, the release of radioactive materials shall be described, including emergency action levels that are to be used as criteria for determining the need for notification and participation of local and State agencies, the Commission, and other Federal agencies, and the emergency action levels that are to be used for determining when and what type of protective measures should be considered within and outside the site boundary to protect health and safety. The emergency action levels shall be based on in-plant conditions and instrumentation in addition to onsite and offsite monitoring.</p>	<p>NEDA will develop EALs consistent with the Permanently Defueled EALs detailed in Appendix C of NEI 99-01, Revision 6 (Reference 4). NEDA proposes to continue to review EALs with the State of Iowa on an annual basis. However, based upon the reduced scope of EALs for the permanently defueled facility, the scope of the annual review of EALs is expected to be limited (informal mailings, etc.).</p> <p>Also refer to basis for 10 CFR Part 50, Appendix E, Section IV.1.</p>

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	<p>By June 20, 2012, for nuclear power reactor licensees, these action levels must include hostile action that may adversely affect the nuclear power plant. The initial emergency action levels shall be discussed and agreed on by the applicant or licensee and state and local governmental authorities, and approved by the NRC. Thereafter, emergency action levels shall be reviewed with the State and local governmental authorities on an annual basis.</p>	
38	<p>B.2. A licensee desiring to change its entire emergency action level scheme shall submit an application for an amendment to its license and receive NRC approval before implementing the change. Licensees shall follow the change process in § 50.54(q) for all other emergency action level changes.</p>	<p>No exemption is requested.</p>
39	<p>C. Activation of Emergency Organization</p> <p>C.1. The entire spectrum of emergency conditions that involve the alerting or activating of progressively larger segments of the total emergency organization shall be described. The communication steps to be taken to alert or activate emergency personnel under each class of emergency shall be described. Emergency action levels (based not only on onsite and offsite radiation monitoring information but also on readings from a number of sensors that indicate a potential emergency, such as the pressure in containment and the response of the Emergency Core Cooling System) for notification of offsite agencies shall be described. The existence, but not the details, of a message authentication scheme shall be noted for such agencies. The emergency classes defined shall include: (1) Notification of unusual events, (2) alert, (3) site area emergency, and (4) general emergency. These classes are further discussed in</p>	<p>The Permanently Defueled EALs, developed consistent with Appendix C of NEI 99-01, Revision 6, will be adopted, as previously described. This scheme eliminates the Site Area Emergency and General Emergency event classifications. Additionally, the need to base EALs on containment parameters is no longer appropriate. The EAL scheme presented in NEI 99-01 Revision 6 was endorsed by the NRC in a letter dated March 28, 2013 (Reference 6). No offsite protective actions are anticipated to be necessary, so classification above the Alert level is no longer required. In the event of an accident at a defueled facility that meets the conditions for relaxing of emergency planning requirements, there will be available time for event mitigation, and if necessary, implementation of offsite protective actions using a comprehensive approach to emergency planning. Refer to the basis for 10 CFR 50.47(b) detailing the low likelihood of any credible accident resulting in radiological releases requiring offsite protective measures.</p> <p>Containment parameters will not provide an indication of the conditions at a defueled facility and emergency core cooling systems will no</p>

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	NUREG-0654/FEMA-REP-1.	<p>longer be required. Other indications such as SFP level or temperature will be used while there is spent fuel in the SFP.</p> <p>In the Statement of Considerations for the Final Rule for EP requirements for ISFSIs and for MRS facilities (60 FR 32430) (Reference 3), the Commission responded to comments concerning a general emergency at an ISFSI and MRS, and concluded that, " ... an essential element of a General Emergency is that a release can be reasonably expected to exceed EPA Protective Action Guidelines exposure levels off site for more than the immediate site area."</p> <p>The probability of a condition reaching the level above an emergency classification of Alert is very low. In the event of an accident at a defueled facility that meets the criteria for relaxation of EP requirements, there will be time available to initiate mitigative actions to protect the public.</p> <p>As stated in NUREG-1738 (Reference 11), for instances of small SFP leaks or loss of cooling scenarios, these events evolve very slowly and generally leave many days for recovery efforts. Offsite radiation monitoring will be performed as the need arises. Due to the decreased risks associated with defueled plants, offsite radiation monitoring systems are not required.</p>
40	C.2. By June 20, 2012, nuclear power reactor licensees shall establish and maintain the capability to assess, classify, and declare an emergency condition within 15 minutes after the availability of indications to plant operators that an emergency action level has been exceeded and shall promptly declare the emergency condition as soon as possible following identification of the appropriate emergency classification level. Licensees shall not construe these criteria as a grace period to attempt to restore plant conditions to	In the Proposed Rule (74 FR 23254) (Reference 20) to amend certain emergency planning requirements for 10 CFR Part 50, the NRC asked for public comment on whether the NRC should add requirements for non-power reactor licensees to assess, classify, and declare an emergency condition within 15 minutes and promptly declare an emergency condition. The NRC received several comments on these issues. The NRC believed there may be a need for the NRC to be aware of security related events early on so that an assessment can be made to consider the likelihood that the event is part of a larger

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	<p>avoid declaring an emergency action due to an emergency action level that has been exceeded. Licensees shall not construe these criteria as preventing implementation of response actions deemed by the licensee to be necessary to protect public health and safety provided that any delay in declaration does not deny the State and local authorities the opportunity to implement measures necessary to protect the public health and safety.</p>	<p>coordinated attack. However, the NRC determined that further analysis and stakeholder interactions are needed prior to changing the requirements for non-power reactor licensees. Therefore, the NRC did not include requirements in the 2011 EP Final Rule (Reference 8) for non-power reactor licensees to assess, classify, and declare an emergency condition within 15 minutes and promptly declare an emergency condition.</p> <p>NEDA will maintain the capability to assess, classify, and declare an emergency condition within 30 minutes after the availability of indications to operators that an EAL threshold has been reached. Emergency declaration is required to be made as soon as conditions warranting classification are present and recognizable, but within 30 minutes in all cases of conditions being present. In the permanently defueled condition, the rapidly developing scenarios associated with events initiated during reactor power operation are no longer credible. The consequences resulting from the only remaining events (e.g., fuel handling accident) develop over a significantly longer period. As such, the 15 minute requirement to classify and declare an emergency is unnecessarily restrictive.</p> <p>Refer to basis in section IV.1 for discussion on the similarity between a permanently defueled reactor and a non-power reactor for the low likelihood of any credible accident resulting in radiological releases requiring offsite protective measures.</p>
41	<p>D. Notification Procedures</p> <p>D.1. Administrative and physical means for notifying local, State, and Federal officials and agencies and agreements reached with these officials and agencies for the prompt notification of the public and for public evacuation or other protective measures, should they become necessary, shall</p>	<p>Refer to basis for 10 CFR 50.47(b) and 10 CFR 50.47(b)(10).</p>

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	be described. This description shall include identification of the appropriate officials, by title and agency, of the State and local government agencies within the EPZs.	
42	D.2. Provisions shall be described for yearly dissemination to the public within the plume exposure pathway EPZ of basic emergency planning information, such as the methods and times required for public notification and the protective actions planned if an accident occurs, general information as to the nature and effects of radiation, and a listing of local broadcast stations that will be used for dissemination of information during an emergency. Signs or other measures shall also be used to disseminate to any transient population within the plume exposure pathway EPZ appropriate information that would be helpful if an accident occurs.	Refer to basis for 10 CFR Part 50, Appendix E, Section IV.D.1.
43	D.3. A licensee shall have the capability to notify responsible State and local governmental agencies within 15 minutes after declaring an emergency. The licensee shall demonstrate that the appropriate governmental authorities have the capability to make a public alerting and notification decision promptly on being informed by the licensee of an emergency condition. Prior to initial operation greater than 5 percent of rated thermal power of the first reactor at a site, each nuclear power reactor licensee shall demonstrate that administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume and exposure pathway EPZ. The design objective of the prompt public alert and notification system shall be to have the capability to essentially complete the initial alerting and initiate notification of the public within the plume exposure pathway EPZ within about 15 minutes. The use of this alerting and notification capability will range from immediate alerting and notification of the public (within 15	<p>While the capability needs to exist for the notification of offsite government agencies within a specified time period, previous exemptions have allowed for extending the State and local government agencies' notification time up to 60 minutes based on the site-specific justification provided.</p> <p>NEDA proposes to complete emergency notification within 60 minutes after an emergency declaration or a change in classification to the State of Iowa and local government agencies. This timeframe is consistent with the 10 CFR 50.72(a)(3) notification to the NRC and is appropriate because in the permanently defueled condition, the rapidly developing scenarios associated with events initiated during reactor power operation are no longer credible and there is no need for State or local response organizations to implement any protective actions. The DAEC Emergency Plan includes primary and backup means for conducting the required notifications.</p> <p>Because of the geographic location of DAEC, emergency planning</p>

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	<p>minutes of the time that State and local officials are notified that a situation exists requiring urgent action) to the more likely events where there is substantial time available for the appropriate governmental authorities to make a judgment whether or not to activate the public alert and notification system. The alerting and notification capability shall additionally include administrative and physical means for a backup method of public alerting and notification capable of being used in the event the primary method of alerting and notification is unavailable during an emergency to alert or notify all or portions of the plume exposure pathway EPZ population. The backup method shall have the capability to alert and notify the public within the plume exposure pathway EPZ, but does not meet the 15 minute design objective for the primary prompt public alert and notification system. When there is a decision to activate the alert and notification system, the appropriate governmental authorities will determine whether to activate the entire alert and notification system simultaneously or in a graduated or staged manner. The responsibility for activating such a public alert and notification system shall remain with the appropriate governmental authorities.</p>	<p>and responsibilities have historically involved coordination with the State of Iowa and local counties and towns. Decommissioning-related emergency plan submittals for DAEC have been discussed with offsite response organizations since NEDA provided notification that it would permanently cease power operations. These discussions have addressed changes to onsite and offsite emergency preparedness throughout the decommissioning process, including the proposed 60-minute notification to the State of Iowa and local government agencies. Emergency management officials have not objected to the proposed notifications.</p> <p>NEDA analyses demonstrate that 10 months after permanent cessation of power operations, no remaining postulated accidents at DAEC will result in radiological releases requiring offsite protective actions, or in the event of beyond design basis accidents, 10 hours is available to take mitigative actions, and if needed, implement offsite protective actions using a comprehensive emergency management plan. Therefore, there is no need to maintain an Alert and Notification System.</p> <p>Also refer to basis for 10 CFR 50.47(b) and 50.47(b)(10).</p>
44	<p>D.4. If FEMA has approved a nuclear power reactor site's alert and notification design report, including the backup alert and notification capability, as of December 23, 2011, then the backup alert and notification capability requirements in Section IV.D.3 must be implemented by December 24, 2012. If the alert and notification design report does not include a backup alert and notification capability or needs revision to ensure adequate backup alert and notification capability, then a revision of the alert and notification design report must be submitted to FEMA for review by June 24, 2013, and the</p>	<p>Refer to basis for 10 CFR Part 50, Appendix E, Section IV.D.3 regarding the alert and notification system requirements.</p>

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	FEMA approved backup alert and notification means must be implemented within 365 days after FEMA approval. However, the total time period to implement a FEMA approved backup alert and notification means must not exceed June 22, 2015.	
45	E. Emergency Facilities and Equipment Adequate provisions shall be made and described for emergency facilities and equipment, including: E.1. Equipment at the site for personnel monitoring;	No exemption is requested.
46	E.2. Equipment for determining the magnitude of and for continuously assessing the impact of the release of radioactive materials to the environment;	No exemption is requested.
47	E.3. Facilities and supplies at the site for decontamination of onsite individuals;	No exemption is requested.
48	E.4. Facilities and medical supplies at the site for appropriate emergency first aid treatment;	No exemption is requested.
49	E.5. Arrangements for medical service providers qualified to handle radiological emergencies onsite;	No exemption is requested.
50	E.6. Arrangements for transportation of contaminated injured individuals from the site to specifically identified treatment facilities outside the site boundary;	No exemption is requested.
51	E.7. Arrangements for treatment of individuals injured in support of licensed activities on the site at treatment facilities outside the site boundary;	No exemption is requested.
52	E.8.a. (i) A licensee onsite technical support center and an emergency operations facility from which effective direction can be given and effective control can be exercised during an emergency;	NEDA analyses demonstrate that 10 months after permanent cessation of power operations, no remaining postulated accidents at DAEC will result in radiological releases requiring offsite protective actions, or in the event of beyond design basis accidents, 10 hours is available to take mitigative actions, and if needed, implement offsite

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		<p>protective actions using a comprehensive emergency management plan. Therefore, there is no need to maintain a TSC or an EOF. Offsite agency response will not be required at an EOF and onsite actions may be directed from the Control Room or another location, without the requirements imposed on a Technical Support Center (TSC).</p> <p>An onsite facility will continue to be maintained, from which effective direction can be given and effective control may be exercised during an emergency. The DAEC Emergency Plan will continue to maintain arrangements for requesting assistance and using resources from appropriate offsite support organizations.</p>
53	E.8.a (ii) For nuclear power reactor licensees, a licensee onsite operational support center;	<p>NUREG-0696, "Functional Criteria for Emergency Response Facilities," (Reference 21) provides that the operational support center (OSC) is an onsite area separate from the control room and the TSC where licensee operations support personnel will assemble in an emergency. For a defueled power plant, an OSC is no longer required to meet its original purpose of an assembly area for plant logistical support during an emergency. A single onsite facility will continue to be maintained at DAEC, from which control room support, emergency mitigation, radiation monitoring, and effective control may be exercised during an emergency.</p>
54	E.8.b. For a nuclear power reactor licensee's emergency operations facility required by paragraph 8.a of this section, either a facility located between 10 miles and 25 miles of the nuclear power reactor site(s), or a primary facility located less than 10 miles from the nuclear power reactor site(s) and a backup facility located between 10 miles and 25 miles of the nuclear power reactor site(s). An emergency operations facility may serve more than one nuclear power reactor site. A licensee desiring to locate an emergency operations facility more than 25 miles from a nuclear power reactor site shall	<p>In accordance with paragraph 8.e. the requirements of paragraph 8.b.(1) – (5) do not apply to the DAEC EOF because it was an approved facility prior to December 23, 2011. However, the exemption is requested to clearly reflect that the requirement no longer applies to DAEC in a permanently shut down and defueled condition.</p> <p>Also refer to basis for 10 CFR 50.47(b)(3).</p>

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	request prior Commission approval by submitting an application for an amendment to its license. For an emergency operations facility located more than 25 miles from a nuclear power reactor site, provisions must be made for locating NRC and offsite responders closer to the nuclear power reactor site so that NRC and offsite responders can interact face-to-face with emergency response personnel entering and leaving the nuclear power reactor site. Provisions for locating NRC and offsite responders closer to a nuclear power reactor site that is more than 25 miles from the emergency operations facility must include the following:	
55	E.8.b. (1) Space for members of an NRC site team and Federal, State, and local responders;	
56	E.8.b. (2) Additional space for conducting briefings with emergency response personnel;	
57	E.8.b.(3) Communication with other licensee and offsite emergency response facilities;	
58	E.8.b.(4) Access to plant data and radiological information; and	
59	E.8.b.(5) Access to copying equipment and office supplies;	
60	E.8.c. By June 20, 2012, for a nuclear power reactor licensee's emergency operations facility required by paragraph 8.a of this section, a facility having the following capabilities: (1) The capability for obtaining and displaying plant data and radiological information for each reactor at a nuclear power reactor site and for each nuclear power reactor site that the facility serves;	Refer to basis for 10 CFR Part 50, Appendix E, Section IV.E.8.a(i) and 10 CFR 50.47(b)(3).
61	E.8.c (2) The capability to analyze plant technical information and provide technical briefings on event conditions and prognosis to licensee and offsite response organizations for	

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	each reactor at a nuclear power reactor site and for each nuclear power reactor site that the facility serves; and	
62	E.8.c (3) The capability to support response to events occurring simultaneously at more than one nuclear power reactor site if the emergency operations facility serves more than one site; and	
63	E.8.d. For nuclear power reactor licensees, an alternative facility (or facilities) that would be accessible even if the site is under threat of or experiencing hostile action, to function as a staging area for augmentation of emergency response staff and collectively having the following characteristics: the capability for communication with the emergency operations facility, control room, and plant security; the capability to perform offsite notifications; and the capability for engineering assessment activities, including damage control team planning and preparation, for use when onsite emergency facilities cannot be safely accessed during hostile action. The requirements in this paragraph 8.d must be implemented no later than December 23, 2014, with the exception of the capability for staging emergency response organization personnel at the alternative facility (or facilities) and the capability for communications with the emergency operations facility, control room, and plant security, which must be implemented no later than June 20, 2012.	Refer to basis for 10 CFR Part 50, Appendix E, Section IV.1. regarding hostile action.
64	E.8.e. A licensee shall not be subject to the requirements of paragraph 8.b of this section for an existing emergency operations facility approved as of December 23, 2011.	Refer to basis for 10 CFR 50.47(b)(3) and Appendix E, Section IV.E.8.b.
65	E.9. At least one onsite and one offsite communications system; each system shall have a backup power source. All communication plans shall have arrangements for emergencies, including titles and alternates for those in charge at both ends of the communication links and the	Refer to basis for 10 CFR 50.47(b) and 10 CFR 50.47(b)(10). NEDA will maintain communications with the State of Iowa, local government agencies, and the NRC. The onsite response facilities will be combined into a single facility as described in IV.E.8.a(ii). A

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	<p>primary and backup means of communication. Where consistent with the function of the governmental agency, these arrangements will include:</p> <p>E.9.a. Provision for communications with contiguous State/local governments within the plume exposure pathway-EPZ. Such communications shall be tested monthly.</p>	<p>description of the communications systems and the testing frequency will be included in the Permanent Defueled Emergency Plan.</p>
66	<p>E.9.b. Provision for communications with Federal emergency response organizations. Such communications systems shall be tested annually.</p>	<p>No exemption is requested.</p>
67	<p>E.9.c. Provision for communications among the nuclear power reactor control room, the onsite technical support center, and the emergency operations facility; and among the nuclear facility, the principal State and local emergency operations centers, and the field assessment teams. Such communications systems shall be tested annually.</p>	<p>Due to analyses indicting that, within 10 months after shutdown, no credible accident at DAEC will result in radiological releases requiring offsite protective actions, or in the event of beyond design basis accidents, 10 hours is available to take mitigative actions, and if needed, implement offsite protective actions using a comprehensive emergency management plan. Therefore, there is no need for the TSC, EOF, or field assessment teams.</p> <p>Also refer to basis for 10 CFR 50.47(b)(3).</p> <p>The provisions remaining in 10 CFR Part 50, Appendix E, Section IV.E.9.a, b, and d include the necessary requirements. Communication with State and local Emergency Operations Centers (EOCs) will be maintained to coordinate assistance on site, if required.</p>
68	<p>E.9.d. Provisions for communications by the licensee with NRC Headquarters and the appropriate NRC Regional Office Operations Center from the nuclear power reactor control room, the onsite technical support center, and the emergency operations facility. Such communications shall be tested monthly.</p>	<p>The functions of the control room, EOF, TSC and OSC may be combined into one or more locations due to the smaller facility staff and the greatly reduced required interaction with State and local emergency response facilities. An onsite facility will continue to be maintained, from which effective direction can be given and effective control may be exercised during an emergency. NEDA will maintain communications with the NRC.</p>

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		Also refer to basis for 10 CFR 50.47(b).
69	F. Training F.1. The program to provide for: (a) The training of employees and exercising, by periodic drills, of emergency plans to ensure that employees of the licensee are familiar with their specific emergency response duties, and (b) The participation in the training and drills by other persons whose assistance may be needed in the event of a radiological emergency shall be described. This shall include a description of specialized initial training and periodic retraining programs to be provided to each of the following categories of emergency personnel	No exemption is requested.
70	F.1.i. Directors and/or coordinators of the plant emergency organization;	
71	F.1.ii. Personnel responsible for accident assessment, including control room shift personnel;	
72	F.1.iii Radiological monitoring teams;	
73	F.1.iv. Fire control teams (fire brigades);	
74	F.1.v. Repair and damage control teams;	
75	F.1.vi. First aid and rescue teams;	
76	F.1.vii. Medical support personnel;	
77	F.1.viii. Licensee's headquarters support personnel;	

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		Also refer to the basis for 10 CFR 50.47(b). Therefore, exempting licensee's headquarters personnel from training requirements is considered to be reasonable.
78	F.1.ix. Security personnel.	No exemption is required.
79	F.1 In addition, a radiological orientation training program shall be made available to local services personnel; e.g., local emergency services/ Civil Defense , local law enforcement personnel, local news media persons .	Because there will no longer be any expected actions that must be taken by the public during an emergency, it is no longer necessary to pre-plan the dissemination of this information to the public or to provide radiological orientation training to local news media persons. The phrase "Civil Defense" is no longer a commonly used term and is no longer applicable as an example in the regulation.
80	F.2. The plan shall describe provisions for the conduct of emergency preparedness exercises as follows: Exercises shall test the adequacy of timing and content of implementing procedures and methods, test emergency equipment and communications networks, test the public alert and notification system , and ensure that emergency organization personnel are familiar with their duties.	NEDA analyses demonstrate that 10 months after permanent cessation of power operations, no remaining postulated accidents at DAEC will result in radiological releases requiring offsite protective actions, or in the event of beyond design basis accidents, 10 hours is available to take mitigative actions, and if needed, implement offsite protective actions using a comprehensive emergency management plan. Therefore, the public alert and notification system will not be used and no testing would be required. Also refer to basis for 10 CFR 50.47(b).
81	F.2.a. A full participation exercise which tests as much of the licensee, State, and local emergency plans as is reasonably achievable without mandatory public participation shall be conducted for each site at which a power reactor is located. Nuclear power reactor licensees shall submit exercise scenarios under § 50.4 at least 60 days before use in a full participation exercise required by this paragraph 2.a.	NEDA will continue to invite the State of Iowa and local support organizations to participate in the periodic drills and exercises conducted to assess its ability to perform responsibilities related to an emergency at DAEC to the extent defined by the DAEC Emergency Plan. Because the need for off-site emergency planning is relaxed due to the low probability of design-basis accidents or other credible events that would be expected to result in an offsite radioactive release that would exceed the limits of EPA PAGs and the available time for event mitigation, no off-site emergency plans will be in place to test.
82	F.2.a(i) For an operating license issued under this part, this exercise must be conducted within two years before the issuance of the first operating license for full power (one-authorizing operation above 5 percent of rated power) of the	

Table 2

Exemptions Requested from 10 CFR 50, Appendix E

Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	<p>first reactor and shall include participation by each State and local government within the plume exposure pathway EPZ and each state within the ingestion exposure pathway EPZ. If the full participation exercise is conducted more than 1 year prior to issuance of an operating license for full power, an exercise which tests the licensee's onsite emergency plans must be conducted within one year before issuance of an operating license for full power. This exercise need not have State or local government participation.</p>	<p>The intent of submitting exercise scenarios at power reactors is to check that licensees utilize different scenarios in order to prevent the preconditioning of responders at power reactors. For defueled sites, there are limited events that could occur and the previously routine progression to General Emergency in power reactor site scenarios is not applicable to a decommissioning site.</p> <p>NEDA considers DAEC to be exempt from F.2.a.(i)-(iii) because DAEC will be exempt from the umbrella provision of Section IV.F.2.a.</p>
83	<p>F 2.a.(ii) For a combined license issued under part 52 of this chapter, this exercise must be conducted within two years of the scheduled date for initial loading of fuel. If the first full participation exercise is conducted more than one year before the scheduled date for initial loading of fuel, an exercise which tests the licensee's onsite emergency plans must be conducted within one year before the scheduled date for initial loading of fuel. This exercise need not have State or local government participation. If FEMA identifies one or more deficiencies in the state of offsite emergency preparedness as the result of the first full participation exercise, or if the Commission finds that the state of emergency preparedness does not provide reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency, the provisions of § 50.54(gg) apply.</p>	
84	<p>F 2.a (iii) For a combined license issued under part 52 of this chapter, if the applicant currently has an operating reactor at the site, an exercise, either full or partial participation, shall be conducted for each subsequent reactor constructed on the site. This exercise may be incorporated in the exercise requirements of Sections IV.F.2.b. and c. in this appendix. If FEMA identifies one or more deficiencies in the state of</p>	

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	<p>offsite emergency preparedness as the result of this exercise for the new reactor, or if the Commission finds that the state of emergency preparedness does not provide reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency, the provisions of § 50.54(gg) apply.</p>	
85	<p>F 2.b. Each licensee at each site shall conduct a subsequent exercise of its onsite emergency plan every 2 years. Nuclear power reactor licensees shall submit exercise scenarios under § 50.4 at least 60 days before use in an exercise required by this paragraph 2.b. The exercise may be included in the full participation biennial exercise required by paragraph 2.c of this section. In addition, the licensee shall take actions necessary to ensure that adequate emergency response capabilities are maintained during the interval between biennial exercises by conducting drills, including at least one drill involving a combination of some of the principal functional areas of the licensee's onsite emergency response capabilities. The principal functional areas of emergency response include activities such as management and coordination of emergency response, accident assessment, event classification, notification of offsite authorities, assessment of the onsite and offsite impact of radiological releases, protective action recommendation development, protective action decision making, plant system repair and mitigative action implementation. During these drills, activation of all of the licensee's emergency response facilities (Technical Support Center (TSC), Operations Support Center (OSC), and the Emergency Operations Facility (EOF)) would not be necessary, licensees would have the opportunity to consider accident management strategies, supervised instruction would be permitted,</p>	<p>Refer to basis for 10 CFR Part 50, Appendix E, Section IV.F.2.a.</p> <p>The low probability of a design-basis accident or other credible events that would result in an offsite radioactive release that would exceed the EPA PAGs and the available time for event mitigation at DAEC during decommissioning render TSC, OSC and EOF unnecessary. The principal functions required by regulation can be performed at an onsite location that does not meet the requirements of the TSC, OSC or EOF. The onsite response facilities at DAEC will be combined into a single facility.</p> <p>NEDA will continue to conduct biennial exercises and will invite the State of Iowa and local support organizations (firefighting, law enforcement, and ambulance/medical services) to participate in periodic drills and exercises to assess its ability to perform responsibilities related to an emergency at DAEC, to the extent defined by the DAEC emergency plan.</p>

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	operating staff in all participating facilities would have the opportunity to resolve problems (success paths) rather than have controllers intervene, and the drills may focus on the onsite exercise training objectives.	
86	F 2.c. Offsite plans for each site shall be exercised biennially with full participation by each offsite authority having a role under the radiological response plan. Where the offsite authority has a role under a radiological response plan for more than one site, it shall fully participate in one exercise every two years and shall, at least, partially participate in other offsite plan exercises in this period. If two different licensees each have licensed facilities located either on the same site or on adjacent, contiguous sites, and share most of the elements defining co-located licenses, then each licensee shall;	Refer to basis for 10 CFR Part 50, Appendix E, Section IV.1 and 10 CFR Part 50, Appendix E, Section IV.F.2.a.
87	F 2.c(1) Conduct an exercise biennially of its onsite-emergency plan;	
88	F 2.c.(2) Participate quadrennially in an offsite biennial full or partial participation exercise;	
89	F 2.c.(3) Conduct emergency preparedness activities and interactions in the years between its participation in the offsite full or partial participation exercise with offsite authorities, to test and maintain interface among the affected State and local authorities and the licensee. Co-located licensees shall also participate in emergency preparedness activities and interaction with offsite authorities for the period between exercises;	
90	F 2.c.(4) Conduct a hostile action exercise of its onsite-emergency plan in each exercise cycle; and	
91	F 2.c.(5) Participate in an offsite biennial full or partial participation hostile action exercise in alternating exercise cycles.	

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
92	F 2.d. Each State with responsibility for nuclear power reactor emergency preparedness should fully participate in the ingestion pathway portion of exercises at least once every exercise cycle. In States with more than one nuclear power reactor plume exposure pathway EPZ, the State should rotate this participation from site to site. Each State with responsibility for nuclear power reactor emergency preparedness should fully participate in a hostile action exercise at least once every cycle and should fully participate in one hostile action exercise by December 31, 2015. States with more than one nuclear power reactor plume exposure pathway EPZ should rotate this participation from site to site.	Refer to basis for 10 CFR 50.47(b)(10).
93	F 2.e. Licensees shall enable any State or local government located within the plume exposure pathway EPZ to participate in the licensee's drills when requested by such State or local government.	Refer to basis for 10 CFR 50.47(b)(10).
94	F 2.f. Remedial exercises will be required if the emergency plan is not satisfactorily tested during the biennial exercise, such that NRC, in consultation with FEMA, cannot (1) find reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency or (2) determine that the Emergency Response Organization (ERO) has maintained key skills specific to emergency response. The extent of State and local participation in remedial exercises must be sufficient to show that appropriate corrective measures have been taken regarding the elements of the plan not properly tested in the previous exercises.	The Federal Emergency Management Agency (FEMA) is responsible for evaluating the adequacy of an offsite response exercise. No action is expected from State or local organizations in response to an event at a decommissioning site other than receiving notification of the emergency and firefighting, law enforcement and ambulance/medical response services. Letters of Agreement will continue to be in place for those services. Offsite response organizations will continue to take implement actions to protect the health and safety of the public as they would at any other industrial site.
95	F 2.g. All exercises, drills, and training that provide performance opportunities to develop, maintain, or demonstrate key skills must provide for formal critiques in order to identify weak or deficient areas that need correction.	No exemption is requested.

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	Any weaknesses or deficiencies that are identified in a critique of exercises, drills, or training must be corrected.	
96	F 2.h. The participation of State and local governments in an emergency exercise is not required to the extent that the applicant has identified those governments as refusing to participate further in emergency planning activities, pursuant to § 50.47(c)(1). In such cases, an exercise shall be held with the applicant or licensee and such governmental entities as elect to participate in the emergency planning process.	No exemption is requested.
97	F 2.i. Licensees shall use drill and exercise scenarios that provide reasonable assurance that anticipatory responses will not result from preconditioning of participants. Such scenarios for nuclear power reactor licensees must include a wide spectrum of radiological releases and events, including hostile action. Exercise and drill scenarios as appropriate must emphasize coordination among onsite and offsite response organizations.	At DAEC, there will be limited events that could occur that could result in radiological releases that exceed the EPA PAGs and the previously routine progression to General Emergency in power reactor site scenarios will not be applicable. Therefore, NEDA does not expect to demonstrate response to a wide spectrum of events. Also refer to the basis for 10 CFR 50.47(b) detailing the low likelihood of any credible accident resulting in radiological releases requiring offsite protective measures and refer to the basis for 10 CFR Part 50, Appendix E, Section IV.1 regarding hostile action.
98	F 2.j. The exercises conducted under paragraph 2 of this section by nuclear power reactor licensees must provide the opportunity for the ERO to demonstrate proficiency in the key skills necessary to implement the principal functional areas of emergency response identified in paragraph 2.b of this section. Each exercise must provide the opportunity for the ERO to demonstrate key skills specific to emergency response duties in the control room, TSC, OSC, EOF, and joint information center. Additionally, in each eight calendar year exercise cycle, nuclear power reactor licensees shall vary the content of scenarios during exercises conducted under paragraph 2 of this section to provide the opportunity for the ERO to demonstrate proficiency in the key skills	Refer to the basis for 10 CFR Part 50, Appendix E, Section IV.F.2. Periodic drills and exercises will be completed to demonstrate ERO proficiency in key skills necessary to implement the principal functional areas of emergency response as applicable for the permanently defueled plant status. Critiques will follow each drill or exercise activity. NEDA will continue to include the State of Iowa and local support organizations in the periodic drills and exercises to assess its ability to perform responsibilities related to an emergency at DAEC to the extent defined by the DAEC Emergency Plan.

Table 2		
Exemptions Requested from 10 CFR 50, Appendix E		
Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	<p>necessary to respond to the following scenario elements: hostile action directed at the plant site, no radiological release or an unplanned minimal radiological release that does not require public protective actions, an initial classification of or rapid escalation to a Site Area Emergency or General Emergency, implementation of strategies, procedures, and guidance developed under § 50.54(hh)(2), and integration of offsite resources with onsite response. The licensee shall maintain a record of exercises conducted during each eight year exercise cycle that documents the content of scenarios used to comply with the requirements of this paragraph. Each licensee shall conduct a hostile action exercise for each of its sites no later than December 31, 2015. The first eight year exercise cycle for a site will begin in the calendar year in which the first hostile action exercise is conducted. For a site licensed under Part 52, the first eight year exercise cycle begins in the calendar year of the initial exercise required by Section IV.F.2.a.</p>	
99	<p>G. Maintaining Emergency Preparedness</p> <p>Provisions to be employed to ensure that the emergency plan, its implementing procedures, and emergency equipment and supplies are maintained up to date shall be described.</p>	No exemption is requested.
100	<p>H. Recovery</p> <p>Criteria to be used to determine when, following an accident, reentry of the facility would be appropriate or when operation could be resumed shall be described.</p>	No exemption is requested.
101	<p>I. Onsite Protective Actions During Hostile Action</p> <p>By June 20, 2012, for nuclear power reactor licensees, a</p>	Refer to the basis for 10 CFR Part 50, Appendix E, Section IV.1.

Table 2

Exemptions Requested from 10 CFR 50, Appendix E

Item #	10 CFR Part 50, Appendix E	Basis for Exemption
	range of protective actions to protect onsite personnel during hostile action must be developed to ensure the continued ability of the licensee to safely shut down the reactor and perform the functions of the licensee's emergency plan.	

4. Technical Evaluation

Accident Analysis Overview

10 CFR 50.82(a)(2) specifies that the 10 CFR Part 50 license no longer authorizes operation of the reactor or emplacement or retention of fuel in the reactor vessel after docketing the certifications for permanent cessation of operations and permanent removal of fuel from the reactor vessel in accordance with 10 CFR 50.82(a)(1). Following the termination of reactor operations at DAEC and the permanent removal of the fuel from the reactor vessel, the postulated accidents involving failure or malfunction of the reactor and supporting structures, systems and components are no longer applicable.

A summary of the postulated radiological accidents analyzed for the permanently shut down and defueled condition is presented below. Current Federal guidance provided in the EPA's, "Protective Action Guides and Planning Guidance for Radiological Incidents, EPA-400/R-17/001," (Reference 7) Section 2.2.4, "PAGs and Nuclear Facilities Emergency Planning Zones (EPZ)," states that the EPZ is based on the maximum distance at which a PAG might be exceeded.

Section 5.0 of ISG-02 (Reference 1) indicates that site-specific analyses should demonstrate that: (1) the radiological consequences of the remaining applicable postulated accidents would not exceed the limits of the EPA PAGs at the EAB; (2) in the event of a beyond design basis event resulting in the partial drain down of the SFP to the point that cooling is not effective, there is at least 10 hours (assuming an adiabatic heat up) from the time that the fuel is no longer being cooled until the hottest fuel assembly reaches 900 °C; (3) adequate physical security is in place to assure implementation of security strategies that protect against spent fuel sabotage; and (4) in the unlikely event of a beyond design basis event resulting from a loss of all SFP cooling, there is sufficient time to implement pre-planned mitigation measures to provide makeup or spray to the SFP before the onset of zirconium cladding ignition.

Table 3 contains a listing of seven analyses that are expected to be evaluated by a decommissioning power reactor licensee requesting exemption of emergency planning requirements. The table also contains a description of how NEDA addresses each of these analyses.

TABLE 3
Interim Staff Guidance-02 Comparison

Analysis	ISG-02 Description	Response
1	Applicable design DBAs (i.e., fuel handling accident in the spent fuel storage facility, waste gas system release, and cask handling accident if the cask handling system is not licensed as single-failure-proof) (Indicates that any radiological release would not exceed the limits of EPA PAGs at EAB);	The postulated accident that will remain applicable to DAEC and could contribute to dose upon implementation of the requested exemptions is the fuel handling accident (FHA) in the Reactor Building, where the SFP is located. The results of the analysis indicate that the dose at the EAB would not exceed the EPA PAGs within 19 days after permanent cessation of power operations. This analysis is described in Section 4.A. of this attachment.

		The Reactor Building Crane is single-failure-proof and therefore a cask handling accident is not credible.
2	Complete loss of SFP water inventory with no heat loss (adiabatic heatup) demonstrating a minimum of 10 hours is available before any fuel cladding temperature reaches 900 degrees Celsius from the time all cooling is lost (Demonstrates sufficient time to mitigate events that could lead to a zirconium cladding fire);	NEDA performed an analysis that conservatively evaluates the length of time (number of hours) it takes for uncovered spent fuel assemblies in the SFP to reach the temperature at which the zirconium cladding would fail. Based on the limiting fuel assembly for decay heat and adiabatic heat up analysis, at 10 months after permanent cessation of power operations, the time for the hottest fuel assembly to reach 900°C is >10 hours after spent fuel is uncovered. This analysis is described in Section 4.B. of this attachment and is included in Attachment 2.
3	Loss of SFP water inventory resulting in radiation exposure at the EAB and control room; (Indicates that any release is less than EPA PAGs at EAB); and	NEDA performed an analysis to determine the offsite radiological impact of a complete loss of SFP water. It was determined that 10 months after shutdown, the gamma radiation dose rate at the EAB would be limited to small fractions of the EPA PAG exposure levels. This analysis is described in Section 4.C. of this attachment and is included in Attachment 3.
4	Considering the site-specific seismic hazard, either an evaluation demonstrating a high confidence of a low-probability (less than 1×10^{-5} per year) of seismic failure of the spent fuel storage pool structure or an analysis demonstrating the fuel has decayed sufficiently that natural air flow in a completely drained pool would maintain peak cladding temperature below 565 degrees Celsius (the point of incipient cladding damage) (Indicates that any release is less than EPA PAGs at EAB).	The DAEC SFP is designed as a Seismic Category I structure (UFSAR 9.1.2.3.3.1), i.e., designed to withstand a Safe Shutdown earthquake (SSE) (UFSAR 3.8.2.3.1). NEDA conducted a seismic evaluation in response to Recommendation 2.1 of the Near Term Task Force (NTTF) review of the accident at the Fukushima Dai-ichi nuclear facility. This evaluation included the spent fuel pool and was submitted to the NRC for review (Reference 23). This evaluation provides a specific assessment of earthquake probabilities versus acceleration for the Duane Arnold, and concludes, regardless of response spectral frequency, the probability is less than 2×10^{-6} /year. The NRC review of this evaluation is documented in References 24 and 25.
5	The analyses and conclusions described in NUREG-1738 are predicated on the risk reduction measures identified in the study	IDCs and SDAs are addressed in Section D and Tables 4 and 5 of this attachment.

	as Industry Decommissioning Commitments (IDC) and Staff Decommissioning Assumptions (SDA), listed in Tables 4.1-1 and 4.1-2 of that document. The staff should ensure that the licensee has addressed these IDCs and SDAs for the decommissioning site if they are storing fuel in an SFP.	
6	Verify that the licensee presents a determination that there is sufficient resources and adequately trained personnel available on-shift to initiate mitigative actions within the 10-hour minimum time period that will prevent an offsite radiological release that exceeds the EPA PAGs at the EAB.	<p>The onsite restoration plans for repair of the SFP cooling system and to provide makeup water to the SFP are incorporated into DAEC procedures and utilize adequately trained on-shift resources for implementation.</p> <p>There are multiple ways to initiate mitigative actions and add makeup water to the SFP within the 10-hour minimum time period with or without entry to the SFP floor.</p> <p>Refer to SDA-2 in Table 5 of this attachment.</p>
7	Verify that mitigation strategies are consistent with that required by the Permanently Defueled Technical Specifications or by retained license conditions.	<p>NEDA maintains procedures and strategies for the movement of any necessary portable equipment that will be relied upon for mitigating the loss of SFP water. These mitigative strategies, addressing events involving a loss of SFP cooling and/or water inventory, include implementation of SFP inventory makeup strategies required under 10 CFR 50.54(hh)(2), which will continue to be maintained to satisfy applicable License Conditions of the Renewed Facility Operating License. These diverse strategies provide defense-in-depth and ample time to provide makeup water or spray to the SFP prior to the onset of zirconium cladding ignition when considering very low probability beyond design basis events affecting the SFP.</p> <p>Refer to SDA-2 in Table 5 of this attachment.</p>

A. Consequences of Design Basis Events

The postulated design basis accident that will remain applicable to DAEC in its permanently shut down and defueled condition is the FHA in the reactor building where the SFP is located. Analysis based on the FHA was performed to determine the dose to personnel in the Control Room and to the public at the Exclusion Area Boundary (EAB or "Site Boundary") as a function of time after shutdown. The FHA analyzed used the calculated number of fuel pin failures based on a drop of the assembly into the reactor core. Dose consequences for a drop over the reactor

core bound the consequences of a drop of an assembly in the SFP due to the shorter drop height equating to fewer fuel pin failures. The analysis used the Alternative Source Term methodology from Regulatory Guide 1.183, concluded that the dose at the EAB 19 days after shutdown (with open containment) is less than 1 rem TEDE, which is below the EPA PAG threshold of 1 rem for recommended evacuation.

B. Consequences of a Beyond Design Basis Event

The analysis in Attachment 2 compares the conditions for the hottest fuel assembly stored in the DAEC fuel pool to a criterion proposed in SECY-99-168 (Reference 10) applicable to offsite emergency response for a unit in the decommissioning process. This criterion considers the time for the hottest assembly to heat up from 30 degrees Celsius (°C) to 900°C adiabatically. If the heat up time is greater than 10 hours, then offsite emergency planning involving the plant is not necessary.

Based on the limiting fuel assembly for decay heat and adiabatic heatup analysis, at 10 months after shutdown (10 months of decay time), the time for the hottest fuel assembly to reach 900°C is >10 hours after the assemblies have been uncovered. As stated in NUREG-1738, "Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants" (February 2001) (Reference 11), 900°C is an acceptable temperature to use for assessing onset of fission product release under transient conditions (to establish the critical decay time for determining availability of 10 hours to evacuate) if fuel and cladding oxidation occurs in air.

Because of the length of time it would take for the adiabatic heatup to occur, there is ample time to respond to any partial drain down event that might cause such an occurrence by restoring cooling or makeup, or providing spray. As a result, the likelihood that such a scenario would progress to a zirconium fire is not deemed credible, and offsite emergency planning involving facilities is not necessary.

C. Consequences of Other Analyzed Events

The analysis in Attachment 3 assumes a complete loss of SFP water inventory while in safe storage. A loss of water shielding above the fuel could increase the offsite radiation levels because of the gamma rays streaming up out of the pool being scattered back to a receptor at the site boundary. The offsite radiological impact of a postulated complete loss of SFP water was assessed. It was determined that the gamma radiation dose rate at the EAB would be less than the EPA PAG exposure levels. The extended period required to exceed the integrated PAG limit of 1 rem TEDE would allow sufficient time to develop and implement onsite mitigative actions and provide confidence that additional offsite measures could be taken without planning if efforts to reestablish shielding over the fuel are delayed. The analysis shows that after approximately 9 months (0.75 years) of decay time, the time to exceed the PAG limit of 1 rem TEDE at the EAB following a SFP drain down is approximately 198 days, or about 6.5 months. This value can be compared to the 10 hour time limit for zirconium ignition in ISG-02 mitigative actions will have been taken far in advanced of exceeding 1 rem TEDE at the EAB. Therefore, conditions 10 months following reactor shutdown are bounded.

The dose rate to the Control Room was determined to be <0.03 mrem/hr. While there are no acceptance criteria for the Control Room in ISG-02, the dose rate values are considered reasonably low.

D. Comparison to NUREG-1738 Industry Decommissioning Commitments and Staff Decommissioning Assumptions

NEDA also evaluated the industry decommissioning commitments (IDCs) and staff decommissioning assumptions (SDAs) contained in NUREG-1738 (Reference 11). NUREG-1738 contains the results of the NRC staff's evaluation of the potential accident risk in spent fuel pools at decommissioning plants in the United States. The study was undertaken to support development of a risk-informed technical basis for reviewing exemption requests and a regulatory framework for integrated rulemaking. The NRC staff performed analyses and sensitivity studies on evacuation timing to assess the risk significance of relaxed offsite emergency preparedness requirements during decommissioning. The staff based its sensitivity assessment on the guidance in Regulatory Guide (RG) 1.174, "An Approach for Using Probabilistic Risk Assessment In Risk-Informed Decisions on Plant-Specific Changes to the Licensing Basis" (Reference 12). The staff's analyses and conclusions apply to decommissioning facilities with SFPs that meet the design and operational characteristics assumed in the risk analysis.

The study found that the risk at decommissioning plants is low and well within the Commission's Safety Goals. The risk is low because of the very low likelihood of a zirconium fire (resulting from a postulated irrecoverable loss of SFP cooling water inventory).

The study provided the following assessment:

"The staff found that the event sequences important to risk at decommissioning plants are limited to large earthquakes and cask drop events. For emergency planning (EP) assessments, this is an important difference relative to operating plants where typically a large number of different sequences make significant contributions to risk. Relaxation of offsite EP a few months after shutdown resulted in only a "small change" in risk, consistent with the guidance of RG 1.174. Figures ES-1 and ES-2 [in NUREG-1738] illustrate this finding. The change in risk due to relaxation of offsite EP is small because the overall risk is low, and because even under current EP requirements, EP was judged to have marginal impact on evacuation effectiveness in the severe earthquakes that dominate SFP risk. All other sequences including cask drops (for which emergency planning is expected to be more effective) are too low in likelihood to have a significant impact on risk. For comparison, at operating reactors, additional risk-significant accidents for which EP is expected to provide dose savings are on the order of 1×10^{-5} per year, while for decommissioning facilities, the largest contributor for which EP would provide dose savings is about two orders of magnitude lower (cask drop sequence at 2×10^{-7} per year)."

The Executive Summary in NUREG-1738 states, in part, "the staff's analyses and conclusions apply to decommissioning facilities with SFPs that meet the design and operational characteristics assumed in the risk analysis. These characteristics are identified in the study as IDCs and SDAs. Provisions for confirmation of these characteristics would need to be an integral part of rulemaking." The IDCs and SDAs are listed in Tables 4.1-1 and 4.1-2, respectively, of NUREG-1738. The following tables show how the DAEC SFP meets or compares with each of these IDCs (Table 4) and SDAs (Table 5). Attachment 4 includes a new regulatory commitment to update the DAEC UFSAR with this information.

E. Consequences of a Beyond-Design Basis Earthquake

NUREG-1738 (Reference 11) identifies beyond design basis seismic events as the dominant contributor to events that could result in a loss of SFP coolant that uncovers fuel for plants in the Central and Eastern United States. Additionally, NUREG-1738 identifies a zirconium fire resulting from substantial loss-of-water inventory from the SFP, as the only postulated scenario at a decommissioning plant that could result in significant offsite radiological release. The scenarios that lead to this condition have very low frequencies of occurrence (i.e., on the order of one to tens of times in a million years) and are considered beyond design basis events because the SFP and attached systems are designed to prevent a substantial loss of coolant inventory under accident conditions. However, the consequences of such accidents could potentially lead to an offsite radiological dose in excess of the EPA PAGs (Reference 7) at the EAB.

The risk associated with zirconium cladding fire events decreases as the spent fuel ages. When the spent fuel ages, the decay time increases, the decay heat decreases, and the short-lived radionuclides decay away. As the decay time increases, the overall risk of zirconium cladding fire continues to decrease due to two factors: (1) the amount of time available for preventative actions increases, which reduces the probability that the actions would not be successful; and (2) the increased likelihood that the fuel is able to be cooled by air, which decreases the reliance on actions to prevent a zirconium fire. The results of the research conducted for NUREG-1738 and NUREG-2161, "Consequence Study of a Beyond-Design-Basis Earthquake Affecting the Spent Fuel Pool for a U.S. Mark I Boiling Water Reactor," (September 2014) (Reference 22) suggests that, while other radiological consequences can be extensive, a postulated accident scenario leading to a SFP zirconium fire, where the fuel has had significant decay time, will have little potential to cause offsite early fatalities due to dose, regardless of the type of offsite response (i.e., formal offsite radiological emergency preparedness plan or Comprehensive Emergency Management Plan).

The purpose of NUREG-2161 (Reference 22) was to determine if accelerated transfer of older, colder spent fuel from the SFP at a reference plant to dry cask storage significantly reduces the risks to public health and safety. The study states that "this study's results are consistent with earlier research studies' conclusions that spent fuel pools are robust structures that are likely to withstand severe earthquakes without leaking cooling water."

NUREG-2161 also states:

"The study shows the likelihood of a radiological release from the spent fuel pool after the analyzed severe earthquake at the reference plant to be about one time in 10 million years or lower. If a leak and radiological release were to occur, this study shows that individuals cancer fatality risk for a member of the public is several orders of magnitude lower than the Commission's Quantitative Health Objective of two in one million (2×10^{-6} /year). For such a radiological release, this study shows public and environmental effects are generally the same or smaller than earlier studies."

The reference plant for the study (a General Electric Type 4 BWR with a Mark I containment) generated approximately 3500 MWt and the SFP contained 2844 fuel assemblies. DAEC is a General Electric Type 4 BWR with a Mark I containment licensed to generate 1912 MWt. Following permanent cessation of power operations and transfer of all fuel from the reactor

vessel to the SFP, the SFP will contain a maximum of 1818 fuel assemblies. Therefore, the risks and consequences of an event involving the SFP at DAEC are bounded by those in the NUREG-2161 study.

NEDA conducted a seismic evaluation in response to Recommendation 2.1 of the Near Term Task Force (NTTF) review of the accident at the Fukushima Dai-Ichi nuclear facility. This evaluation included the spent fuel pool and was submitted to the NRC for review (Reference 23). This evaluation provides a specific assessment of earthquake probabilities versus acceleration for the Duane Arnold, and concludes, regardless of response spectral frequency, the probability is less than 2×10^{-6} /year. The NRC review of this evaluation is documented in References 24 and 25.

Additionally, NEDA has also included the Reactor Building structure (and Spent Fuel pool) into the Maintenance Rule – Structures Monitoring Program. This requires a validation by walkdown and drawing review that there are no changes or degradation of the equipment, structure and components and is completed every 2 years. This will continue until all fuel is removed from the pool.

F. Conclusion

Based on the above, NEDA has demonstrated that no credible accident will result in radiological releases requiring offsite protective actions. Additionally, there is sufficient time, resources and personnel available to initiate mitigative actions that will prevent an offsite release that exceeds EPA PAGs.

**Table 4
Industry Decommissioning Commitments (IDCs) Comparison**

IDC	Industry Commitments	Response
1	Cask drop analyses will be performed or single failure-proof cranes will be in use for handling of heavy loads (i.e., phase II of NUREG-0612 will be implemented).	<p>The DAEC crane design is consistent with this commitment. Heavy load lifts in and around the area of the spent fuel pool (SFP) are performed by the Reactor Building Crane. The design of the crane is single failure-proof. Therefore, the likelihood of dropping the spent fuel casks in and around the SFP is extremely low. The design meets the requirements of NUREG-0554, <i>Single-Failure-Proof Cranes for Nuclear Power Plants</i>, and Appendix C of NUREG-0612, <i>Control of Heavy Loads at Nuclear Power Plants</i>. DAEC procedures provide instructions for lifting activities to meet the guidance provided in NUREG-0612.</p> <p>Because the Reactor Building Crane is single failure-proof, an accidental load drop is considered not to be a credible event such that condition 5.1.2(1) of NUREG-0612 is satisfied and analysis of cask drop accidents in accordance with condition 5.1.2(4) of NUREG-0612 is not required.</p>
2	Procedures and training of personnel will be in place to ensure that onsite and offsite resources can be brought to bear during an event.	<p>DAEC procedures are in place to ensure onsite and offsite resources can be brought to bear during an event, including the following:</p> <ul style="list-style-type: none"> • EPIP 1.2, <i>Notifications</i> • DAEC Emergency Plan, Section 'O', <i>Radiological Emergency Response Training</i> • DAEC Emergency Plan, Appendix 2, <i>Letters of Agreement</i> • SY-AA-102-1019, <i>Suspension / Relaxation of Safeguards</i> • <i>DAEC Catastrophic Event Plan</i> • SAMP 716, <i>Initial Response Extensive Damage Mitigation Guidelines (EDMG)</i> • OP-AA-107, <i>Extensive Damage Management Program</i> • EN-AA-110, <i>Diverse and Flexible Coping Strategies (FLEX) Program</i> • EMG, <i>Emergency Management Guideline</i> • FLEX-AB-100, <i>DAEC Flex Program</i> <p>The procedures listed above (or equivalent) and associated training will be updated as necessary to reflect the permanently shut down and defueled condition. Once DAEC is permanently shut down and defueled, the on-shift plant operators, including Certified Fuel Handlers (CFHs) and Non-Certified Operators, will be appropriately trained on the relevant procedures and on the various actions needed to provide makeup to the SFP based on a systematic approach to training to ensure appropriate personnel receive initial and continuing training on B.5.b event-related procedures and strategies credited in applicable License Conditions required by 10 CFR 50.54(hh)(2). The DAEC CFH training program was</p>

**Table 4
Industry Decommissioning Commitments (IDCs) Comparison**

IDC	Industry Commitments	Response
		<p>submitted for NRC review on January 29, 2019, and approved by the NRC per letter dated August 29, 2019 (References 9 and 13).</p> <p>Following permanent cessation of power operations, maintaining SFP cooling and inventory would be the highest priority activity. Therefore, the personnel needed to perform these actions will be available at all times.</p> <p>Finally, periodic Emergency Plan drills are conducted with opportunities for participation of the Offsite Response Organizations to maintain proficiency in response to a plant event.</p>
3	<p>Procedures will be in place to establish communication between onsite and offsite organizations during severe weather and seismic events.</p>	<p>The following procedures provide guidance for initiating and maintaining communications between offsite agencies and the onsite Emergency Response Organization during severe weather and seismic events:</p> <ul style="list-style-type: none"> • EPIP 1.1, <i>Determination of Emergency Action Levels</i> • EPIP 1.2, <i>Notifications</i> • DAEC Plan, Section F, <i>Emergency Communications</i> • AOP 901, <i>Earthquake</i> • AOP 903, <i>Severe Weather</i>
4	<p>An offsite resource plan will be developed which will include access to portable pumps and emergency power to supplement onsite resources. The plan would principally identify organizations or suppliers where offsite resources could be obtained in a timely manner.</p>	<p>FLEX-AB-100-1003, <i>SAFER Response Plan for Duane Arnold Energy Center</i>, contains an offsite resource list which shows providers, their capabilities, and a contact telephone number.</p>
5	<p>SFP instrumentation will include readouts and alarms in the control room (or where personnel are stationed) for SFP temperature, water level, and area radiation levels.</p>	<p>SFP Level instrumentation provides indication and alarm to Control Room. This consists of two pool level instruments installed in accordance with NRC Order EA-12-049 and one pool level instrument on the main control board. The SFP is also equipped with a local level indicator (ruler) for alternate means of determining spent fuel pool level.</p> <p>SFP System temperature is continuously monitored in the control room.</p> <p>There are four area radiation monitors on the Refuel Floor that provide remote indication and annunciation in the Control Room. A local alarm to notify personnel of high area</p>

**Table 4
Industry Decommissioning Commitments (IDCs) Comparison**

IDC	Industry Commitments	Response
		radiation levels is also in place. In addition, each radiation monitor provides input to the Plant Process computer.
6	SFP seals that could cause leakage leading to fuel uncovering in the event of seal failure shall be self limiting to leakage or otherwise engineered so that drainage cannot occur.	The DAEC SFP gate are static seals, and there is no credible catastrophic failure mechanism for these seals. If SFP inventory were to leak due to seal rupture or degradation, level would not go below the top of the spent fuel racks. The fixed elevation of the bottom of the refueling slot between the SFP and reactor vessel where the gates are located is above the top of spent fuel. Therefore, leakage by the gates could not lead to fuel uncovering. Additionally, DAEC has a flow indicating switch installed to monitor for any leakage past the SFP gates.
7	Procedures or administrative controls to reduce the likelihood of rapid draindown events will include (1) prohibitions on the use of pumps that lack adequate siphon protection or (2) controls for pump suction and discharge points. The functionality of anti-siphon devices will be periodically verified.	<p>Administrative controls are in place the drive procedure use and adherence, and risk management. Specifically, AD-AA-100-1006, <i>Procedure and Work Instruction Use and Adherence</i>, establishes the expectations and requirements for procedure adherence and usage for all plant personnel performing activities. Additionally, all work activities are subject to the work process controls per WM-AA-100-1000, <i>Work Activity Risk Management</i>.</p> <p>DFS-201, <i>Dry Shielded Canister/Transfer Cask Preparation for Fuel Loading Operations</i>, requires the Cask Pool Gate be installed and a specified volume (5800 gallons) be drained from the Cask Pit prior to placing the cask in the pit. The Cask Pool Gate prevents cask evolutions from affecting SFP level and DFS-201 meets the requirements of the IDC by controlling the draining methods to prevent affecting SFP level. There are no connections to the fuel storage pool that could allow the fuel pool to be drained below the pool gate between the reactor well and fuel pool. The return cooling water supply piping terminates just below the surface of the spent fuel pool. That piping contains passive vacuum breaking vent pipes that prevent any siphoning from occurring on the return lines. These vent pipes are easily observable to verify the absence of any obstructions, and they require no testing since there are no moving parts. The suction piping is routed from the Skimmer Surge Tanks that are connected to the SFP via SFP overflow weirs that maintain SFP level at the required level. High- and low-level switches indicate pool water level changes in the control room and pump room.</p>
8	An onsite restoration plan will be in place to provide repair of the SFP cooling systems or to provide access for makeup water to the SFP. The plan will provide for remote alignment of the makeup source to the SFP without requiring entry to the	AOP 435, <i>Loss of Spent Fuel Pool Cooling (All Modes) / Inventory (Mode 4 and 5)</i> , SEP 312, <i>Loss of Spent Fuel Pool Inventory</i> , SEP 314, <i>Loss of Spent Fuel Pool Cooling</i> and SAMP 712, <i>Spent Fuel Pool Makeup and Spray</i> , all provide guidance for SFP makeup utilizing various water sources, with or without access to the Refuel Floor.

**Table 4
Industry Decommissioning Commitments (IDCs) Comparison**

IDC	Industry Commitments	Response
	refuel floor.	
9	<p>Procedures will be in place to control SFP operations that have the potential to rapidly decrease SFP inventory. These administrative controls may require additional operations or management review, management physical presence for designated operations or administrative limitations such as restrictions on heavy load movements.</p>	<p>Administrative controls are in place the drive procedure use and adherence, and risk management. Specifically, AD-AA-100-1006, <i>Procedure and Work Instruction Use and Adherence</i>, establishes the expectations and requirements for procedure adherence and usage for all plant personnel performing activities. Additionally, all work activities are subject to the work process controls per WM-AA-100-1000, <i>Work Activity Risk Management</i>.</p> <p>DFS-201 and OI 435, <i>Fuel Pool Cooling System</i>, both require the cask pool gate be installed prior to draining inventory from the cask pool. The cask pool gate prevents cask evolutions from affecting SFP level, and DFS-201 and OI 435 meet the requirements of the IDC by controlling the draining methods to prevent affecting SFP level.</p> <p>Movement of the Dry Storage Cask and other heavy loads in the vicinity of the SFP is performed in accordance with PDA procedure ACP 1408.19, <i>Control of Generic Heavy Loads</i>, and DFS-201 which ensure the requirements of NUREG-0612 are met for heavy loads.</p>
10	<p>Routine testing of the alternative fuel pool makeup system components will be performed and administrative controls for equipment out of service will be implemented to provide added assurance that the components would be available, if needed.</p>	<p>AOP 435 lists the makeup sources to use in the event of a loss of SFP inventory, with or without access to the Refueling Floor (5th Floor of the Reactor Building). Various systems used in that procedure are either routinely used or tested in accordance with Technical Specification or other administrative requirements. For instance, makeup to the Skimmer Surge tanks via Condensate Service Water is utilized on a daily basis to make up for evaporative loses from the SFP. In addition, SFP Cooling risk and equipment out of service times are managed in accordance with OP-AA-104-1010, <i>Spent Fuel pool Risk Management</i>.</p>

**Table 5
Staff Decommissioning Assumptions (SDAs) Comparison**

SDA	Staff Assumptions	Response
1	<p>Licensee's SFP cooling design will be at least as capable as that assumed in the risk assessment, including instrumentation. Licensees will have at least one motor-driven and one diesel-driven fire pump capable of delivering inventory to the SFP.</p>	<p>The DAEC design aligns with the intent of this description. The DAEC SFP is designed as a Seismic Category I structure (UFSAR 9.1.2.3.3.1), i.e., designed to withstand a Safe Shutdown earthquake (SSE) (UFSAR 3.8.2.3.1). The SFP cooling system is as originally designed and does not include temporary configurations which would result in loss of margin or unanalyzed drain paths.</p> <p>The instrumentation includes the Fukushima Lessons Learned dual, independent level monitors with indicators and alarms in the Control Room. Temperature indication and alarms are available.</p> <p>The SFP cooling system has redundant pumps, redundant heat exchangers and multiple makeup sources, including the Fire Protection System. DAEC's Fire Protection System includes an electric-driven fire pump and a diesel-driven fire pump, both of which will be maintained until all fuel is removed from the SFP. Each fire pump has the capability to deliver 500 gallons per minute (gpm) of makeup water to the SFP. All sources discussed above take suction from the Cedar River.</p>
2	<p>Walk-downs of SFP systems will be performed at least once per shift by the operators. Procedures will be developed for and employed by the operators to provide guidance on the capability and availability of onsite and offsite inventory makeup sources and time available to initiate these sources for various loss of cooling or inventory events.</p>	<p>DAEC performs in-plant walk-downs of the Refuel Floor and SFP demineralizer instruments for system pressure and flow (which will indicate a system problem) shiftly, as directed by Operator rounds. Additionally, in-plant skimmer surge tank level and SFP pump checks are performed once per day as directed by Operator rounds. The daily monitoring of skimmer surge tank level and SFP pumps are adequate since the continuous indication of SFP level in the Main Control Room and shiftly monitoring of Refuel Floor and demineralizers will indicate any problems with SFP system operation.</p> <p>DAEC procedures meet the requirements of this SDA by providing the guidance on the capability and availability of permanent and portable makeup sources. AOP 901 directs the inspection of the SFP and cooling systems following a seismic event. AOP 435 includes methods to diagnose the loss of cooling and/or inventory and direction to establish makeup. SAMP 712, <i>Spent Fuel Pool Makeup and Spray</i>, provides direction in a Beyond Design-Basis External Event (BDBEE).</p> <p>NEDA has determined that for a loss of SFP cooling with no makeup capabilities, the total time to boil the SFP and to reduce SFP water inventory to a point 10 feet above the top of the highest point of the fuel assembly is calculated to be 2.8 days total. The 2.8-day period is based on the expected decay heat load following a 90-day period following reactor</p>

**Table 5
Staff Decommissioning Assumptions (SDAs) Comparison**

SDA	Staff Assumptions	Response
		<p>shutdown. NEDA has performed an evaluation demonstrating that 90 days after permanent shutdown, adequate time and water resources will be available to restore spent fuel pool cooling to maintain SFP water level 10 feet about the top of the spent fuel and the low decay heat and long time to boil off inventory provides sufficient time for DAEC to sustain the SFP cooling function indefinitely. Specifically, DAEC's standard portable fire pumps deliver adequate head and flow to provide the minimum require makeup to the SFP. The evaluation indicates this equipment can be installed in approximately 6 hours to deliver SFP makeup. The required equipment and installation procedures are required to be maintained per DAEC Operating License section 2.C.(9), "Mitigation Strategy License Condition," item (b)(7).</p>
3	<p>Control room instrumentation that monitors SFP temperature and water level will directly measure the parameters involved. Level instrumentation will provide alarms at levels associated with calling in offsite resources and with declaring a general emergency.</p>	<p>Indication for SFP level is provided in the Control Room as well as locally in the plant. A Control Room annunciator will actuate when level is low or level is high. Additionally, if a high or low level condition exists, an alarm light (red) will illuminate on local panels in the plant. Two independent indicators for SFP level are also provided on the Control Room back panels for use during a Beyond Design Basis External Event (BDBEE).</p> <p>A temperature element on the common suction to the fuel pool cooling pumps provides temperature indication to recorder TRS 1945, which is located in the Control Room.</p> <p>NEDA has procedures in place to respond to an abnormally low level in the SFP to direct the plant staff to take appropriate actions to provide the necessary SFP makeup; first through normal means, then by utilizing all available onsite resources, including both design basis and defense-in-depth capabilities. Refer to the NEDA responses for IDC 2 and IDC 4 for details associated with calling in offsite resources.</p> <p>Regarding the declaration of a general emergency, NEDA will be employing Shutdown EALs using an approved NRC EAL Scheme. Based on Appendix C of NEI 99-01, "Development of Emergency Action Levels for Non-Passive Reactors," Revision 6, it is expected that station conditions will not have the capacity to reach any threshold requiring the declaration of a general emergency.</p>
4	<p>Licensee determines that there are no drain paths in the SFP that could lower the pool level (by draining, suction, or pumping) more than 15 feet below the normal pool operating level and that</p>	<p>The DAEC SFP Cooling System has not been modified from the original design in order to enter into the decommissioning process.</p> <p>The normal pool operating level is elevation (EL) 853'-8". Top of active fuel installed in the fuel storage rack is at EL 830'-3". The water in the SFP returns to the SPF cooling system</p>

**Table 5
Staff Decommissioning Assumptions (SDAs) Comparison**

SDA	Staff Assumptions	Response
	licensee must initiate recovery using offsite sources.	<p>via a skimmer weir that can be set to maintain SFP level as low as EL 853'-6.5". There are no lower elevation piping penetrations in the SFP. The bottom of the fuel transfer gate connecting the SFP to the reactor cavity is at EL 831'-2.75". The bottom of the cask pool gate opening is EL 832'-3". The SFP cooling inventory is normally supplied through two 6" pipes that discharge into the SFP at EL 850'. These discharge lines each include a ¾" high-point vent (welded at EL 852'-6" and open to atmosphere at EL 853'-3"), which act as vacuum breakers to prevent siphoning of the pool through the primary make-up piping. Therefore, although draining of more than 15 feet below normal pool operating level could occur, there is no drain path that would drain water below the top of the fuel.</p> <p>NEDA maintains procedures and guidelines in place to obtain offsite assistance if necessary for mitigation of events that result in significant loss of SFP inventory. These mitigating strategies are implemented as part of AOP-435 and are also included in DAEC's Mitigation Strategy License Condition requirements.</p>
5	Load Drop consequence analyses will be performed for facilities with nonsingle failure-proof systems. The analyses and any mitigative actions necessary to preclude catastrophic damage to the SFP that would lead to a rapid pool draining would be sufficient to demonstrate that there is high confidence in the facilities ability to withstand a heavy load drop.	Heavy load lifts in and around the area of the SFP are performed by the Reactor Building Crane. The design of the Reactor Building Crane is single failure-proof as noted in response to IDC-1. Therefore, performance of load drop consequence analyses is not required.
6	Each decommissioning plant will successfully complete the seismic checklist provided in Appendix 2B to this study [NUREG-1738]. If the checklist cannot be successfully completed, the decommissioning plant will perform a plant specific seismic risk assessment of the SFP and demonstrate that SFP seismically induced structural failure and rapid loss of inventory is less than the generic bounding estimates provided in this study ($<1 \times 10^{-5}$ per year including non-seismic events).	<p>NEDA conducted a seismic evaluation in response to Recommendation 2.1 of the Near Term Task Force (NTTF) review of the accident at the Fukushima Dai-ichi nuclear facility. This evaluation included the spent fuel pool and was submitted to the NRC for review (Reference 23). This evaluation provides a specific assessment of earthquake probabilities versus acceleration for the Duane Arnold, and concludes, regardless of response spectral frequency, the probability is less than 2×10^{-6}/year. The NRC review of this evaluation is documented in References 24 and 25.</p> <p>Additionally, NEDA has also included the Reactor Building structure (and Spent Fuel pool) into the Maintenance Rule - Structures Monitoring Program. The requires a validation by walkdown and drawing review that there are no changes or degradation of the equipment,</p>

**Table 5
Staff Decommissioning Assumptions (SDAs) Comparison**

SDA	Staff Assumptions	Response
		<p>structure and components and is completed every 2 years. This will continue until all fuel is removed from the pool.</p> <p>In addition, as documented in the Enhanced Seismic Checklist (NUREG 1738 Appendix 2B, Attachment 1), risks associated with a seismic event are mitigated by delaying any EP rule changes until after the Zirc Fire time period. As this amendment will not be implemented until after the zirc fire period (10 months), overall risk is reduced even further.</p>
7	<p>Licensees will maintain a program to provide surveillance and monitoring of Boraflex in high-density spent fuel racks until such time as spent fuel is no longer stored in these high-density racks.</p>	<p>The DAEC spent fuel racks utilize Boral, rather than Boraflex, as the neutron absorbing material. As described in Section 18.1.41 of the DAEC UFSAR, an aging management program is in place to manage loss of material and reduction of neutron absorption capacity of Boral neutron absorption panels in the spent fuel racks. The loss of material and the reduction of the neutron-absorbing capacity will be determined through coupon testing for Holtec spent fuel racks and in situ testing for PaR spent fuel racks. Such testing will include periodic verification of boron loss through areal density measurement of coupons or through direct in situ techniques, such as measurement of boron areal density and measurement of geometric changes in the material, and detection of gaps through blackness testing.</p>

V. JUSTIFICATION FOR EXEMPTIONS AND SPECIAL CIRCUMSTANCES

10 CFR 50.12 states that the Commission may, upon application by any interested person or upon its own initiative, grant exemptions from the requirements of the regulations of Part 50 which are authorized by law, will not present an undue risk to the public health and safety, and are consistent with the defense and security. 10 CFR 50.12 also states that the Commission will not consider granting an exemption unless special circumstances are present. As discussed below, this exemption request satisfies the provisions of Section 50.12.

A. The exemptions are authorized by law

10 CFR 50.12 allows the NRC to grant exemptions from the requirements of 10 CFR Part 50. The proposed exemption would not result in a violation of the Atomic Energy Act of 1954, as amended, or the Commission's regulations. Therefore, the exemption is authorized by law.

B. The exemptions will not present an undue risk to public health and safety

The underlying purpose of 10 CFR 50.47(b), 10 CFR 50.47(c)(2), 10 CFR Part 50, Appendix E, Section IV is to ensure that there is reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency, to establish plume exposure and ingestion pathway emergency planning zones for nuclear power plants, and to ensure that licensees maintain effective offsite and onsite emergency plans.

As discussed in this request, revised radiological analyses have been developed that show that 19 days after shutdown, the radiological consequences of design basis accidents will not exceed the limits of the Environmental Protection Agency (EPA) Protective Action Guides at the EAB. In addition, analyses have been developed for beyond design basis events related to the SFP which show that, within 10 months after shutdown, the analyzed event is either not credible, is capable of being mitigated, or the radiological consequences of the event will not exceed the limits of the EPA Protective Action Guides at the exclusion area boundary (EAB).

Additionally, the offsite and Control Room radiological impacts of a postulated complete loss of SFP water were assessed. It was determined that the gamma radiation dose rate at the EAB would be limited to small fractions of the EPA PAG exposure levels and the dose rate in the Control Room will be below 0.03 mRem/hr.

For these reasons, offsite emergency response plans will no longer be needed for protection of the public beyond the EAB 10 months after permanent cessation of power operations. Based on the reduced consequences of radiological events possible at DAEC in the permanently defueled condition, the scope of the onsite emergency preparedness organization and corresponding offsite requirements in the emergency plan may be accordingly reduced without an undue risk to the public health and safety.

Therefore, the underlying purpose of the regulations will continue to be met. Because the underlying purpose of the rules will continue to be met, the exemptions will not present an undue risk to the public health and safety.

C. The exemptions are consistent with the common defense and security

The reduced consequences of radiological events that will remain possible at the site once it is in the permanently defueled condition allows for a corresponding reduction in the scope of the onsite emergency preparedness organization and associated reduction of requirements in the emergency plan. These reductions will not adversely affect DAEC's ability to physically secure the site or protect special nuclear material. Physical security measures at DAEC are not affected by the requested exemption. Therefore, the proposed exemptions are consistent with the common defense and security.

D. Special Circumstances

Pursuant to 10 CFR 50.12(a)(2), the NRC will not consider granting an exemption to its regulations unless special circumstances are present. NEDA has determined that special circumstances are present as discussed below.

Special circumstances exist at DAEC because the plant will be permanently shutdown and defueled and the radiological source term at the site will be reduced from that associated with reactor power operation. With the reactor power plant permanently shut down and defueled, the design basis accidents and transients postulated to occur during reactor operation will no longer be possible. In particular, the potential for a release of a large radiological source term to the environment from the high pressures and temperatures associated with reactor operation will no longer exist.

1. Application of the regulation in the particular circumstances would not serve the underlying purpose of the rule or is not necessary to achieve the underlying purpose of the rule. (10 CFR 50.12(a)(2)(ii))

The underlying purpose of 10 CFR 50.47(b), 10 CFR 50.47(c)(2), and 10 CFR Part 50, Appendix E is to ensure that there is reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency, to establish plume exposure and ingestion pathway emergency planning zones for nuclear power plants, and to ensure that licensees maintain effective offsite and onsite emergency plans.

The standards and requirements in 10 CFR 50.47(b), 10 CFR 50.47(c)(2), and 10 CFR Part 50, Appendix E were developed taking into consideration the risks associated with operation of a nuclear power reactor at its licensed full power level. These risks include the potential for a reactor accident with offsite radiological dose consequences.

The radiological consequences of accidents that will remain possible at DAEC upon permanent shut down of power operations are substantially lower than those at an operating plant. The upper bounds of the analyzed dose consequences limits the highest attainable emergency class to the Alert level. In addition, because of the reduced consequences of radiological events that will still be possible at the site, the scope of the onsite emergency preparedness organization may be reduced accordingly. Thus, the underlying purpose of the regulations will not be adversely affected by eliminating offsite emergency planning activities or reducing the scope of onsite emergency planning as described in this request.

Radiological analysis indicates that within 19 days after shutdown, the radiological consequences of the postulated accident that will remain possible at DAEC upon permanent removal of fuel from the reactor will not exceed the limits of the EPA PAGs at the EAB. In addition, an analysis has been developed for beyond design basis events related to the SFP which show that within 10 months after permanent cessation of power operations, the analyzed event is either not credible, is capable of being mitigated, or the radiological consequences of the event will not exceed the limits of the EPA PAGs at the EAB. Therefore, application of all of the standards and requirements in 10 CFR 50.47(b), 10 CFR 50.47(c)(2), and 10 CFR Part 50, Appendix E are not necessary to achieve the underlying purpose of those rules.

Since the underlying purposes of the rules would continue to be achieved even with NEDA being permitted to reduce the scope of emergency preparedness requirements consistent with placing the facility in the permanently defueled condition, application of the rules is not necessary to achieve the underlying purpose, and the special circumstances are present as defined in 10 CFR 50.12(a)(2)(ii).

2. Compliance would result in undue hardship or other costs that are significantly in excess of those contemplated when the regulation was adopted, or that are significantly in excess of those incurred by others similarly situated. (10 CFR 50.12(a)(2)(iii))

Application of all of the standards and requirements in 10 CFR 50.47(b), 10 CFR 50.47(c)(2), and 10 CFR Part 50, Appendix E is not needed for adequate emergency response capability and is excessive for a permanently shut down and defueled facility. Application of all of these standards and requirements would result in undue costs being incurred for the maintenance of an emergency response organization in excess of that actually needed to respond to the diminished scope of credible events. Other licensees, similarly situated, have been granted similar exemptions as discussed in Section E.

Therefore, compliance with the rule would result in an undue hardship or other costs that are significantly in excess of those contemplated when the regulation was adopted, or that are significantly in excess of those incurred by others similarly situated, and the special circumstances required by 10 CFR 50.12(a)(2)(iii) exist.

3. The exemptions would result in benefit to the public health and safety that compensates for any decrease in safety that may result from the grant of the exemptions. (10 CFR 50.12(a)(2)(iv))

The plant will be permanently shut down and defueled and the radiological source term at the site will be reduced from that associated with reactor power operation. With the reactor permanently shut down and defueled, the postulated accidents that could occur during reactor operation will no longer be possible. Specifically, the potential for a release of a large radiological source term to the environment from the high pressures and temperatures associated with reactor operation will no longer exist.

The proposed exemptions would allow NEDA to revise the onsite emergency plan to correspond to the reduced scope and consequences of remaining accidents and

events. As such, the emergency plan would no longer need to address response actions for events that would no longer be possible. The revised emergency plan would thereby enhance the ability of the emergency response organization to respond to those scenarios that remain credible because emergency preparedness training and drills would focus only on applicable activities. Elimination of requirements for classification of emergency action levels for events that were no longer possible would enhance the ability of the ERO to correctly classify those events that remain credible. As the proposed exemptions will enhance the ability of the organization to respond to credible events, a resultant benefit to the public health and safety is realized.

Therefore, since granting the exemptions would result in benefit to the public health and safety and would not result in a decrease in safety, the special circumstances required by 10 CFR 50.12(a)(2)(iv) exist.

E. Precedent

The exemption requests for 10 CFR 50.47(b); 10 CFR 50.47(c)(2); and 10 CFR Part 50, Appendix E requirements are consistent with exemptions on the same emergency planning requirements that recently have been issued by the NRC for other nuclear power reactor facilities beginning decommissioning. Specifically, the NRC granted similar exemptions to OPPD for FCS (Reference 14) to ENO for VY (Reference 15); to Southern California Edison Company for SONGS, Units 1, 2, and 3 (Reference 16); to Duke Energy Florida, Inc. for CR3 (Reference 17); to Dominion Energy Kewaunee, Inc. for KPS (Reference 18); and to ENO for PNSP (Reference 19). Similar to the current request, these precedents each resulted in exemptions from certain emergency planning requirements in 10 CFR 50.47(b); 10 CFR 50.47(c)(2); and 10 CFR Part 50, Appendix E, related to the elimination of offsite radiological emergency plans and reduction in the scope of the onsite emergency planning activities. For the same reasons that the NRC recently issued these exemptions, NEDA seeks approval of the enclosed proposed exemption requests.

VI. ENVIRONMENTAL ASSESSMENT

The proposed exemption meets the eligibility criterion for categorical exclusion set forth in 10 CFR 51.22(c)(25), because the proposed exemption involves: (i) no significant hazards consideration; (ii) no significant change in the types or significant increase in the amounts of any effluents that may be released offsite; (iii) no significant increase in individual or cumulative public or occupational radiation exposure; (iv) no significant construction impact; (v) no significant increase in the potential for or consequences from radiological accidents; and (vi) the requirements from which the exemption is sought involve requirements of an administrative, managerial, or organizational nature. Therefore, pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the proposed exemption.

(i) No Significant Hazards Consideration Determination

The requested exemptions from portions of 10 CFR 50.47(b), 10 CFR 50.47(c)(2), and 10 CFR Part 50, Appendix E would allow NEDA to revise the scope of the DAEC

Emergency Plan to reflect the permanently shut down and defueled condition of the station. NEDA has evaluated the proposed exemption to determine whether or not a significant hazards consideration is involved by focusing on the three standards set forth in 10 CFR 50.92 as discussed below:

1. Does the proposed exemption involve a significant increase in the probability or consequences of an accident previously evaluated?

The proposed exemptions have no effect on structures, systems, and components (SSCs) and no effect on the capability of any plant SSC to perform its design function. The proposed exemptions would not increase the likelihood of the malfunction of any plant SSC. The proposed changes do not affect accident initiators or precursors, nor do they alter design assumptions that could increase the probability or consequences of previously evaluated accident.

When the exemptions become effective, there will be no credible events that would result in doses to the public beyond the Exclusion Area Boundary (EAB) that would exceed the Environmental Protection Agency (EPA) Protective Action Guides (PAGs). The probability of occurrence of previously evaluated accidents is not increased because most previously analyzed accidents will no longer be able to occur and the probability and consequences of the remaining postulated accident, a Fuel Handling Accident, is unaffected by the proposed exemptions.

Therefore, the proposed exemptions do not involve a significant increase in the probability or consequences of an accident previously evaluated.

2. Do the proposed exemptions create the possibility of a new or different kind of accident from any accident previously evaluated?

The proposed exemptions do not involve a physical alteration of the plant. No new or different type of equipment will be installed and there are no physical modifications to existing equipment associated with the proposed exemptions. Similarly, the proposed exemptions will not physically change any SSCs involved in the mitigation of any accidents. Thus, no new initiators or precursors of a new or different kind of accident are created. Furthermore, the proposed exemption does not create the possibility of a new accident as a result of new failure modes associated with any equipment or personnel failures. No changes are being made to parameters within which the plant is normally operated, or in the setpoints which initiate protective or mitigative actions, and no new failure modes are being introduced.

Therefore, the proposed exemption does not create the possibility of a new or different kind of accident from any accident previously evaluated.

3. Do the proposed exemptions involve a significant reduction in a margin of safety?

The proposed exemptions do not alter the design basis or any safety limits for the plant. The proposed exemptions do not impact station operation or any plant SSC that is relied upon for accident mitigation.

Therefore, the proposed exemptions do not involve a significant reduction in a margin of safety.

Based on the above, NEDA concludes that the proposed exemptions present no significant hazards consideration, and, accordingly, a finding of "no significant hazards consideration" is justified.

(ii) There is no significant change in the types or significant increase in the amounts of any effluents that may be released offsite.

There are no expected changes in the types, characteristics, or quantities of effluents discharged to the environment associated with the proposed exemptions. There are no materials or chemicals introduced into the plant that could affect the characteristics or types of effluents released offsite. In addition, the method of operation of waste processing systems will not be affected by the exemptions. The proposed exemptions will not result in changes to the design basis requirements of SSCs that function to limit or monitor the release of effluents. The SSCs associated with limiting the release of effluents will continue to be able to perform their functions. Therefore, the proposed exemptions will result in no significant change to the types or significant increase in the amounts of any effluents that may be released offsite.

(iii) There is no significant increase in individual or cumulative public or occupational radiation exposure.

The exemption will result in no expected increases in individual or cumulative occupational radiation exposure on either the workforce or the public. There are no expected changes in normal occupational doses. Likewise, the dose of the postulated accident is not impacted by the proposed exemptions.

(iv) There is no significant construction impact.

No construction activities are associated with the proposed exemption.

(v) There is no significant increase in the potential for or consequences from radiological accidents.

See the no significant hazards considerations discussion in Item (i)(1) above.

(vi) Requirements of an administrative, managerial, or organizational nature.

The proposed exemptions will form the basis for a reduction in size of the NEDA emergency response organization commensurate with the reduction in consequences of radiological events that will be possible at DAEC once the facility is in the permanently defueled condition. They will also modify the requirements for emergency planning. Therefore, the exemptions address requirements of an administrative, managerial, or organizational nature.

VII. REFERENCES

1. NSIR/DPR-ISG-02, Interim Staff Guidance, Emergency Planning Exemption Requests for Decommissioning Nuclear Power Plants
2. Letter from NEDA (M. Nazar) to USNRC, "Certification of Permanent Cessation of Power Operations," NG-19-0136, dated March 2, 2020 (ML20062E489)
3. Federal Register Notice (60 FR 32430) Final rule - 10 CFR Part 72, "Emergency Planning Licensing Requirements for Independent Spent Fuel Storage Facilities (ISFSI) and Monitored Retrievable Storage Facilities (MRS)," dated June 22, 1995 (ML072910459)
4. NEI 99-01, "Development of Emergency Action Levels for Non-Passive Reactors," Revision 6
5. USNRC, "Integrated Rulemaking Plan for Nuclear Power Plant Decommissioning," Commission Paper SECY-00-0145, June 28, 2000 (ML003721626)
6. Letter from USNRC to NEI, "U.S. Nuclear Regulatory Commission Review and Endorsement of NEI 99-01, Revision 6, Dated November 2012 (TAC NO. D92368)," dated March 28, 2013 (ML12346A463)
7. EPA-400/R-17/001, "PAG Manual: Protective Action Guides and Planning Guidance for Radiological Incidents," dated January 2017 (ML17044A073)
8. Federal Register Notice, Vol. 76, No. 226 (76 FR 72596), Enhancements to Emergency Preparedness Regulations, dated November 23, 2011
9. Letter from NEDA (D. Curtland) to USNRC, "Request for Approval of Certified Fuel Handler Training Program," NG-19-0003, dated January 29, 2019 (ML19037A016)
10. Commissioning Paper SECY-99-168, Improving Decommissioning Regulations for Nuclear Power Plants, dated June 30, 1999
11. NUREG-1738, "Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants," dated February 2001
12. Regulatory Guide 1.174, "An Approach for Using Probabilistic Risk Assessment In Risk Informed Decisions on Plant-Specific Changes to the Licensing Basis," dated July 1998 (ML003740133)
13. Letter from USNRC to NEDA (D. Moul), "Duane Arnold Energy Center - Approval of a Certified Fuel Handler Training and Continuing Training Program (EPID L-20190LLL-0003)," dated August 28, 2019 (ML19204A287)
14. Letter, USNRC to OPPD (M. Fisher), "Fort Calhoun Station, Unit No. 1 – Exemptions from Certain Emergency Planning Requirements and Related Safety Evaluation (CAC No. MF9067; EPID L2016-LLE-0003)," dated December 11, 2017 (ML17263B198)
15. Letter, USNRC to ENO, "Vermont Yankee Nuclear Power Station – Exemptions from Certain Emergency Planning Requirements and Related Safety Evaluation (CAC No. MF3614)," dated December 10, 2015 (ML15180A054)
16. Letter from USNRC to Southern California Edison Company (T. Palmisano), "San Onofre Nuclear Generating Station, Units 1, 2, and 3 and Independent Spent Fuel Storage Installation - Exemptions from Certain Emergency Planning Requirements and Related Safety Evaluation (TAC Nos. MF3835, MF3836, and MF3837)," dated June 4, 2015. (ML15082A204)
17. Letter from USNRC to Crystal River Nuclear Plant (T. Hobbs), "Crystal River Unit 3 - Exemptions from Certain Emergency Planning Requirements and Related Safety Evaluation (TAC No. MF2981)," dated March 30, 2015. (ML15058A906)
18. Letter from USNRC to Dominion Energy Kewaunee, Inc. (D. Heacock), "Kewaunee Power Station - Exemptions from Certain Emergency Planning Requirements and Related Safety Evaluation (TAC No. MF2567)," dated December 27, 2014. (ML14261A223)
19. Letter from USNRC to Holtec Decommissioning International, LLC (P. Cowan), "Pilgrim Nuclear Power Station – Exemptions from Certain Emergency Planning Requirements and

- Related Safety Evaluation (EPID L-2018-LLE-0011)," dated December 18, 2019.
(ML19142A043)
20. Federal Register Notice, Vol. 74, No. 94 (74 FR 23254), Enhancements to Emergency Preparedness Regulations, dated May 18, 2009
 21. NUREG-0696, "Functional Criteria for Emergency Response Facilities," February 1981
 22. NUREG-2161, "Consequence Study of a Beyond-Design-Basis Earthquake Affecting the Spent Fuel Pool for a U.S. Mark I Boiling Water Reactor," September 2014 (ML14255A365)
 23. Letter from NEDA (R. Anderson) to USNRC, "NextEra Energy Duane Arnold, LLC Seismic Hazard and Screening Report (CEUS Sites), Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," NG-14-0092, dated March 28, 2014 (ML14092A331)
 24. Letter from USNRC to NEDA (T. Vehec), "Duane Arnold Energy Center- Staff Assessment of Information Provided Pursuant to Title 10 of the Code of Federal Regulations Part 50, Section 50.54(f), Seismic Hazard Reevaluations for Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident (TAC No. MF3783)," dated December 15, 2015 (ML15324A176)
 25. Letter from USNRC to Listed Power Reactor Licensees, "Staff Review of High Frequency Confirmation Associated with Reevaluated Seismic Hazard Implementating Near-Term Task Force Recommendation 2.1 "Seismic" for Specific Licensees," dated February 18, 2016, (ML15364A544)

NG-19-0142

Attachment 2

Duane Arnold Energy Center

CAL-M19-001

Adiabatic Heatup Analysis of Drained Spent Fuel Pool (Zirconium Fire)

Rev. 1

1318 pages follow

CALCULATION COVER SHEET

Document Information:

Calculation (Doc) No: CAL-M19-001	Controlled Documents Revision: 1
Title: Adiabatic Heatup Analysis of Drained Spent Fuel Pool (Zirconium Fire)	
Type: CALC Sub-Type: CALC Discipline: Mechanical	
Facility: DAEC	Unit:
Safety Class: <input type="checkbox"/> SR <input type="checkbox"/> Quality Related <input checked="" type="checkbox"/> Non-Nuclear Safety <input type="checkbox"/> Important to Safety <input type="checkbox"/> Not Important to Safety	
Special Codes: <input type="checkbox"/> Safeguards <input type="checkbox"/> Proprietary	
Vendor Doc No:	Vendor Name or Code: ENERCON
Executive Summary: This calculation determines the time after subcriticality is achieved when, in the event of a complete loss of Spent Fuel Pool inventory, a minimum of 10 hours is available before any fuel cladding temperature reaches 900°C from the time all cooling is lost. This calculation credits conduction to the upper and lower plenums of the fuel assembly as well as radiative heat transfer to the channel box and Spent Fuel Pool rack. The limiting time to 900°C is determined to be 9.5 months after subcriticality is achieved for initial Spent Fuel Pool temperatures of 85°F, 90°F, and 95°F, and 9.75 months for an initial Spent Fuel Pool temperature of 120°F. The limiting times apply if the limiting bundle is stored in a Programmed and Remote Spent Fuel Pool rack; storage in Holtec racks results in less limiting cooling times.	

Review and Approval:

Associated EC Number: 292601	EC Revision: 0
AR/ Other Document Number:	
Description of Calculation Revision: Updates decay heat values and credits additional heat transfer pathways.	EC Document Revision:
Prepared by: <u>Andrew Rabaioli-Brosius</u> (signature)	Andrew Rabaioli-Brosius Date: <u>10/9/19</u> (print name)
Reviewed by: <u>John Wright</u> (signature)	John Wright Date: <u>10/9/19</u> (print name)
Type of Review: <input type="checkbox"/> Design Verification <input checked="" type="checkbox"/> Review <input type="checkbox"/> Owner Acceptance Review	
Method Used (For DV Only): <input type="checkbox"/> Design Review <input type="checkbox"/> Alternate Calculation	
Approved by: <u>Jeffrey Head</u> (signature)	Jeffrey Head Date: <u>10/9/19</u> (print name)

Owner Acceptance Review
(Page 1 of 3)

Sheet 1a

External Design Document Being Reviewed: CAL-M19-001

Title: Adiabatic Heatup Analysis of Drained Spent Fuel Pool (Zirconium Fire)

Number: CAL-M19-001

Rev: 1

Date: 10/9/19

This design document was received from:

Organization Name: Enercon

PO or DIA Reference: 2324944, Release 42

The purpose of the suitability review is to ensure that a calculation, analysis, modification, or other design document provided by an External Design Organization complies with the conditions of the purchase order and/or Design Interface Agreement (DIA) and is appropriate for its intended use. The owner acceptance review does not serve as an independent verification. Independent verification of the design document supplied by the External Design Organization should be evident in the document, if required.

The reviewer should use the criteria below as a guide to assess the overall quality, completeness and usefulness of the design document. The reviewer is not required to check calculations in detail.

For any items determined unsatisfactory, comments are to be provided to the External Design Organization, detailing actions necessary to resolve the issue.

Risk (per EN-AA-212-1000/EN-AA-213-1000): Low Medium High

Complete Items 1 through 29 for All Risk Items

	Yes	N/A
1. Design inputs correspond to those that were transmitted to the External Design Organization. Additional design inputs are adequately identified and documented.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Design output documents are prepared in accordance with applicable procedures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Assumptions and engineering judgments are documented, described and reasonable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Unverified assumptions have a tracking and closure mechanism in place	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Applicable codes, standards and regulations are identified and meet plant design and license bases.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Applicable structure(s), system(s), and component(s) are listed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Formulae and equations are documented. Unusual symbols are defined.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Computer programs are validated under the appropriate QA program.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Acceptance criteria are identified, adequate and satisfied.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. The product outputs, recommendations, results, and conclusions, are reasonable compared to the inputs and assumptions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Source documents are referenced.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. The impacts on plant drawings, procedures, databases, and plant simulator have been addressed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Owner Acceptance Review
(Page 2 of 3)

Sheet 1b

	Yes	N/A
13. Maintenance features such as equipment location, accessibility and in-service inspection have been considered and appropriate maintenance requirements are specified.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. Applicable construction and operating experience is considered and incorporated, including a review of equipment failure rates, maintenance and installation requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Installation and constructability issues have been adequately considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Inputs, assumptions, outputs, etc. which could affect plant operation are enforced by adequate procedural controls. List any new or affected procedures.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17. Requirements for testing have been specified including modification acceptance testing, factory acceptance testing, site acceptance testing, construction testing, periodic post mod testing, and ASME code required In-service Testing.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18. Engineering documentation reflects the current field condition (especially in the electrical area) or has specific actions to verify prior to implementation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. The document is appropriate for its intended use.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. The document complies with the terms of the Purchase Order and/or DIA.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21. Appropriate interdisciplinary, interdepartmental and third party reviews were performed and impacts resolved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Affected supporting calculations have been revised and approved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23. For revisions, supplements or superseding documents, inputs and assumptions in the original document are still applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
24. Applicable operating conditions, environmental conditions, and system interactions are addressed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25. Commitments, program requirements, or other issues affecting the design, have been adequately addressed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26. All required follow-up actions requiring resolution have a closure tracking mechanism in place.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27. Margin impacts identified, acceptable and understood.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28. Obsolete material/spare parts/inventory changes addressed as applicable.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29. Has the engineering contractor performed a line by line review of any applicable specifications, and documented/ addressed the results in the EC.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Owner Acceptance Review
(Page 3 of 3)


Sheet 1c

Steps 30 through 40 are to be completed for High Risk items

- | | | |
|--|-------------------------------------|-------------------------------------|
| 30. RE has contacted other utilities that have performed similar modifications and ensure issues/lessons learned are addressed. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Yes | N/A |
| 31. RE independently verified the trip logic and set points of any new or revised protective feature. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 32. If the modification involves engineered material, validate the division of responsibility for engineering, design verification, and review between the vendor and the engineering contractor is documented in writing. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 33. A matrix which outlines critical characteristics, acceptance criteria, and method of testing (FAT, SAT, PMT), and consequence of failure has been developed and reviewed to be correct. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 34. Engineering Contractor internal design review board notes have been reviewed and required actions completed. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 35. Verify risk and mitigating actions identified in accordance with EN-AA-212-1000 and EN-AA-213-1000 have been addressed. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 36. For digital modifications, any "black box" design feature and reviews have been thoroughly vetted and reviewed by the Fleet Subject Matter Expert. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 37. RE has done a line by line review of any specifications and validated that they are addressed in the engineering package. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 38. RE has verified the key design inputs are correct. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 39. RE has verified all safety related and control circuits are correct in accordance with EN-AA-100-1002, Design Verification. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40. RE has performed a thorough review of the Failure Modes and Effects Analysis. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Additional Aspects for Review:

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Completed by: 
Zahr Alia

Date: 10/10/2019
10-10-19

Nuclear Fuels Design Engineering

CALCULATION REVISION SUMMARY SHEET

Calculation Number: CAL-M19-001

Rev.	Affected Pages	Reason for Revision
0	ALL	Initial Issue.
1	ALL	Revision 1 updates the decay heat values for the worst-case fuel assembly and credits heat transfer to the upper and lower plenums of the fuel assembly and the spent fuel pool rack. The entire calculation is reformatted.

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2.0	References	6
3.0	Design Inputs and Sources	7
4.0	Methodology	12
5.0	Assumptions	22
6.0	Calculation	25
7.0	Results and Conclusions	32

Attachment 1: Heat-up time Calculation 9.75 months after Shutdown, 120F Initial Temperature, PaR SFP Rack	600 pages
Attachment 2: Inconel material data sheet	3 pages
Attachment 3: Email Transmittal of Attachment 4	1 page
Attachment 4: DAEC Cycle 27 Fuel Data	6 pages
Attachment 5: Excerpt from Metals Handbook Volume 2 (Reference 2.21)	10 pages
Attachment 6: Excerpt from Aluminum Design Manual 2010 (Reference 2.22)	3 pages
Attachment 7: Heat-up time Calculation 9.0 months after Shutdown, 120F Initial Temperature, Holtec SFP Rack	650 pages
Attachment 8: Heat-up time Calculation 9.5 months after Shutdown, 95F Initial Temperature, PaR SFP Rack (First Page only)	1 page
Attachment 9: Heat-up time Calculation 9.5 months after Shutdown, 90F Initial Temperature, PaR SFP Rack (First Page only)	1 page
Attachment 10: Heat-up time Calculation 9.5 months after Shutdown, 85F Initial Temperature, PaR SFP Rack (First Page only)	1 page
Attachment 11: Heat-up time Calculation 8.75 months after Shutdown, 95F Initial Temperature, Holtec SFP Rack (First Page only)	1 page

Attachment 12: Heat-up time Calculation 8.75 months after Shutdown, 90F Initial Temperature, Holtec SFP Rack (First Page only)	1 page
Attachment 13: Heat-up time Calculation 8.75 months after Shutdown, 85F Initial Temperature, Holtec SFP Rack (First Page only)	1 page
Attachment 14: Heat-up time Calculation 9.75 months after Shutdown, 120F Initial Temperature, Holtec SFP Rack, View Factor/Emissivity Sensitivity (First Page only)	1 page
Attachment 15: Heat-up time Calculation 9.75 months after Shutdown, 120F Initial Temperature, Holtec SFP Rack Upper Plenum Mass Sensitivity (First Page only)	1 page

1.0 Purpose and Objective

The purpose of this calculation is to determine the time after permanent defueling that a minimum of 10 hours is available for an uncovered spent fuel assembly in the spent fuel pool (SFP) to reach the temperature where the zirconium cladding would fail. This analysis conservatively assumes that there is no air cooling of the assemblies and supports decommissioning of Duane Arnold Energy Center (DAEC). Specifically, this analysis will be used to support a License Amendment Request submittal once the hottest fuel assembly decay time is sufficient and is demonstrated to reach 900°C in 10 hours, which is related to relaxing the Emergency Planning (EP) requirements in accordance with ISG-02, "Emergency Planning Exemption Requests for Decommissioning Nuclear Power Plants," Section 5.0 (Reference 2.1).

The heat load from a GNF2 assembly is used in this analysis as determined in Section 6.1.

NUREG-0586 Supplement 1, Section 4.3.9, identifies that a SFP drain down event is beyond design basis (Reference 2.2).

"Radiological accidents considered in licensing nuclear power plants are classified as design basis accidents (DBAs) and severe (beyond design basis) accidents. DBAs are those accidents that both the licensee and the NRC staff evaluate to ensure that the plant can withstand normal and abnormal transients and a broad spectrum of postulated accidents without undue hazard to the health and safety of the public. Severe accidents are those that are beyond the design basis of the plant. They are more severe than DBAs because they may result in substantial damage to the fuel, whether or not there are serious offsite consequences. For the most part, DBAs focus on reactor operation and are not applicable to plants undergoing decommissioning. The only DBAs or severe accidents (beyond design basis) applicable to a decommissioning plant are those involving the spent fuel pool. These postulated accidents are not expected to occur during the life of the plant, but are evaluated to establish the design basis for the preventive and mitigative safety systems of the spent fuel storage facility."

Per ISG-02 (Reference 2.1), the acceptance criteria for this analysis is that a minimum of 10 hours is available before fuel cladding temperature reaches 900°C. SECY-99-168 (Reference 2.5) reports that a plant specific EP exemption determined "10 hours was sufficient time to take mitigative action."

NUREG/CR-6451 (Reference 2.6) presents several studies discussing the maximum allowable temperature of zirconium cladding that will ensure that failure of the zirconium cladding will not occur. NUREG/CR-6451 states 565°C (1049°F) as the lowest temperature where incipient cladding failure might occur. Per NUREG-1738 (Reference 2.4, page 3-7), 900°C (1652°F) is the temperature where "runaway oxidation" (i.e., zirconium fire) is expected to occur.

This calculation determines new decay heat values for the worst-case assembly based on the updated expected Cycle 27 inventory presented in Attachment 4. The discharge date and burnup values are updated compared to the data used in Revision 0 of Reference 2.11. This calculation

also models conductive heat transfer to the fuel assembly upper and lower plenums and radiative heat transfer to the channel box and SFP racks. Three lower initial SFP temperatures of 85°F, 90°F, and 95°F are evaluated in addition to the 120°F initial temperature evaluated in Revision 0.

2.0 References

- 2.1 NSIR/DPR-ISG-02, “Emergency Planning Exemption Requests for Decommissioning Nuclear Power Plants”, May 11, 2015 (ML14106A057).
- 2.2 NUREG-0586, Supplement 1, Volume 1, Generic Environmental Impact Statement on Decommissioning of Nuclear Facilities.
- 2.3 Glasstone and Sesonske, “Nuclear Reactor Engineering”, Van Nostrand Reinhold Company, 1981.
- 2.4 NUREG-1738, "Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants", February 2001 (ML010430066).
- 2.5 SECY-99-168, "Improving Decommissioning Regulations for Nuclear Power Plants", June 30, 1999 (ML992800087).
- 2.6 NUREG/CR-6451, "A Safety and Regulatory Assessment of Generic BWR and PWR Permanently Shutdown Nuclear Power Plants", August 1997 (ML082260098).
- 2.7 Incropera & DeWitt, “Fundamentals of Heat and Mass Transfer”, Third Edition, John Wiley & Sons, Inc., 1990.
- 2.8 ORNL/TM-2005/39, SCALE 6.1, User’s Manual, June 2011.
- 2.9 NUREG/CR-6150, Vol.4, Rev 2, “SCDAP/RELAP/MOD3.3 Code Manual: MATPRO – A Library of Materials Properties for Light-Water-Reactor Accident Analysis”, January 2001 (ML010330363, ML010330400 and ML010330422).
- 2.10 NUREG/CR-7024, “Material Property Correlations: Comparisons between FRAPCON-3.4, FRAPTRAN 1.4 and MATPRO” March 2011 (ML11101A012).
- 2.11 CAL-R19-002, “Dose at Site Exclusion Area Boundary and Main Control Room Due to Shine from the Drained Spent Fuel Pool During SAFSTOR,” Revision 0.
- 2.12 Special Metals data sheet on Inconel alloy X-750:
<http://www.specialmetals.com/assets/smc/documents/alloys/inconel/inconel-alloy-x-750.pdf>, accessed 7/15/19 (Attachment 2).
- 2.13 Design Information Transmittal Number 2, Contract Number 2324944, July 25, 2019 (Attachment 7 of Reference 2.11).
- 2.14 SD-435, “Fuel Pool and Fuel Pool Cooling and Cleanup System,” Rev. 11.

- 2.15 Drawing M453-002, "Rack Construction Spent Fuel Storage Racks", Revision 1.
- 2.16 DAEC FSAR, Revision 25, March 2019.
- 2.17 Email from Steve Huebsch (NextEra) to Matt Wilkinson (ENERCON), transfer of DIT 4, 9/16/2019 (Attachment 3) and Attached DIT with Fuel Data (Attachment 4).
- 2.18 Drawing M453-030, "Grid, Top Casting 11x8", Revision 1.
- 2.19 Drawing M453-029 Sheet 1, "Module Spent Fuel Pool Typical", Revision 1.
- 2.20 Drawing M453-044, "Square Tube Weldment Outer", Revision 1.
- 2.21 "Metals Handbook, Volume 2 – Properties and Selection: Nonferrous Alloys and Special-Purpose Materials", Tenth Edition, ASM International, 1990 (Attachment 5).
- 2.22 "Aluminum Design Manual 2010", The Aluminum Association, Inc., 2010 (Attachment 6).

3.0 Inputs and Sources

3.1 Zircaloy-2 Properties

The cladding, water rods and channel for the GNF2 fuel bundle are zircaloy-2 (Reference 2.13). The upper and lower plenums of the fuel assembly are zircaloy-2, stainless steel, and Inconel Alloy X-750 (Reference 2.13). The specific heat capacity of zircaloy-2 is used for the entire mass of both plenums because it is conservative (Assumption 5.10).

The density of zircaloy-2 is 6.56 g/cm^3 ($409.53 \text{ lb}_m/\text{ft}^3$) (Reference 2.11).

The specific heat capacity at various temperatures of zircaloy-2 is from Table 4.2 of Reference 2.9 and Table 3.1-1 of Reference 2.10. Table 1 contains the specific heat capacity of zircaloy-2 in both J/kg-K and BTU/lb_m-°F. The specific heat capacity unit conversion is $1 \text{ joule/kilogram/K} = 0.238845896627\text{E-}03 \text{ BTU/pound/}^\circ\text{F}$.

Table 1: Zircaloy-2 Specific Heat Capacity

Temperature		Specific Heat Capacity	
(K)	(°F)	J/kg-K	BTU/lb _m -°F
300	80.33	281	0.0671
400	260.33	302	0.0721
640	692.33	331	0.0791
1090	1502.33	375	0.0896
1093	1507.73	502	0.1199
1113	1543.73	590	0.1409
1133	1579.73	615	0.1469
1153	1615.73	719	0.1717
1173	1651.73	816	0.1949
1193	1687.73	770	0.1839
1213	1723.73	619	0.1478
1233	1759.73	469	0.1120
1248	1786.73	356	0.0850

The thermal conductivity at various temperatures of zircaloy-2 is calculated by the following empirical formula from Equation 3.2-1 of Reference 2.10. The thermal conductivity unit conversion is 1 Watt/meter/Kelvin (W/m-K) = 0.5777893 BTU/hour/foot/°F (BTU/hr-ft-°F).

Equation 3-1:

$$k = 7.51 + 2.09 \times 10^{-2}T - 1.45 \times 10^{-5}T^2 + 7.67 \times 10^{-9}T^3$$

Where:

k = Thermal conductivity (W/m-K)

T = Temperature (K)

3.2 Uranium Properties

The density of uranium dioxide is 10.41 g/cm³ (649.88 lb_m/ft³) (Reference 2.11).

The specific heat capacity at various temperatures is calculated by the following empirical formula from Equation 2-5 of Reference 2.9 and Equation 2.2-1 of Reference 2.10.

Equation 3-2:

$$FCP = \frac{K_1 \theta^2 \exp(\theta/T)}{T^2 [\exp(\theta/T) - 1]^2} + K_2 T + \frac{Y K_3 E_D}{2RT^2} \exp(-E_D/RT)$$

Where:

FCP	=	Specific heat capacity (J/kg-K)
T	=	Temperature (K)
Y	=	Oxygen-to-metal ratio = 2 (Assumption 5.4)
R	=	Universal gas constant = 8.3143 (J/mol-K) (Reference 2.9)
θ	=	the Einstein temperature = 535.285 (K) (Reference 2.9)
K_1	=	296.7 (J/kg-K) (Reference 2.9)
K_2	=	2.43×10^{-2} (J/kg-K ²) (Reference 2.9)
K_3	=	8.745×10^7 (J/kg) (Reference 2.9)
E_D	=	1.577×10^5 (J/mol) (Reference 2.9)

3.3 Stainless Steel 304 Properties

The Holtec SFP rack is type 304 stainless steel (Reference 2.15). The density of stainless steel 304 is 7.99 g/cm³ (499.39 lb/ft³) (Reference 2.3).

The specific heat capacity at various temperatures is calculated by the following empirical formula from Equation 6-1 of Reference 2.9. Equation 3-3 is valid for temperatures between 300 K and 1,671 K.

Equation 3-3:

$$c_{p,ss} = 326 - 0.242T + 3.71T^{0.719}$$

Where:

$c_{p,ss}$	=	Specific heat capacity of stainless steel (J/kg-K)
T	=	Temperature (K)

3.4 Aluminum 356.0-T51 Properties

The Programmed and Remote (PaR) SFP racks are aluminum 356.0-T51 (Reference 2.18). The density of 356.0-T51 series aluminum is 2.68 g/cm³ (167.27 lb/ft³) (Reference 2.21).

A constant specific heat value of 0.230 BTU/lb-°F is used for aluminum 356.0-T51 (Reference 2.22) for conservatism (Assumption 5.15).

3.5 Properties for Limiting Bundle

The table below shows the geometry inputs for the GNF2 fuel bundles evaluated in this analysis. The final Cycle 27 core prior to decommissioning contains all GNF2 fuel (Reference 2.11), therefore the analysis herein will only evaluate the heat-up of a GNF2 fuel bundle and not any other types in the SFP because the offload fuel directly after a cycle bounds all other fuel bundles in the pool. Table 2 contains fuel bundle input data used in this analysis for a GNF2 fuel bundle.

Table 2: GNF2 fuel bundle input data

Number of Heated Rods	92 rods	2.13
Number of Water Rods	2 rods	2.13
Number of Full Length Rods	78 rods	2.13
Number of Long Partial Length Rods	8 rods	2.13
Number of Short Partial Length Rods	6 rods	2.13
Fuel Assembly Length	176.18 in	2.13
Active Length of Rods	150 in	2.13
Length of Long Partial Length Rod	102 in	2.13
Length of Short Partial Length Rod	54 in	2.13
Uranium Pellet Diameter	0.3496 in	2.13
Fuel Rod Outer Diameter	0.404 in	2.13
Fuel Clad Thickness	0.0236 in	2.13
Fuel Rod Inner Diameter	0.3568 in	Calculated
Fuel Rod Pitch	0.510 in	2.13
Water Rod Outer Diameter in Active Fuel Region	0.591 in (0-14.14 in) 0.98 in (14.14-147.39 in) 0.591 in (147.39-150 in)	2.13
Water Rod Thickness	0.03 in	2.13
Water Rod Inner Diameter in Active Fuel Region	0.531 in (0-14.14 in) 0.92 in (14.14-147.39 in) 0.531 in (147.39-150 in)	Calculated
Fuel Assembly Width	5.283 in	2.13
Channel Groove Thickness	0.05 in	2.13
Channel Groove Width	0.798 in	2.13
Groove Ramp Width	0.027 in	2.13
Channel Sidewall Thickness	0.065 in	2.13
Spacers Weight	2.13 lb _m	2.13
Spacer Material Type	Inconel Alloy X-750	2.13
Upper Plenum Mass	9.5 lb _m	2.13 ¹
Lower Plenum Mass	17.45 lb _m	2.13 ²
Distance from Top of Active Fuel Region to Top of Fuel Element	18.744 in	Calculated ³
Distance from Bottom of Fuel Element to Start of Active Fuel Region	7.436 in	2.13

¹Sum of all masses in List 1 of Reference 2.13

²Sum of all masses in List 2 of Reference 2.13

³Calculated in Section 6.3

3.6 Properties for SFP Rack

The SFP contains two rack types, PaR and Holtec (Reference 2.16, Section 9.1.2). Holtec racks are made of stainless steel 304 and PaR racks are made of Aluminum 356.0-T51 (Reference 2.15 and Reference 2.18). This calculation is performed for each rack type such

that the limiting bundle can be offloaded to any location in the SFP. The relevant dimensions of a typical Holtec rack are shown in Table 3 and the relevant dimensions of a typical PaR rack are shown in Table 4.

Table 3: Holtec SFP Rack Input Data

Inner Length of Rack	5.9 in	2.15
Rack Thickness	0.06 in	2.15
Outer Length of Rack	6.02 in	Calculated
Rack Height	169 in	2.15
Inner Sheathing Width	5.08 in	2.15
Inner Sheathing Thickness	0.0235 in	2.15
Inner Sheathing Height	146.5 in	2.15
Boundary Sheathing Width	4.875 in	2.15
Boundary Sheathing Thickness	0.06 in	2.15
Boundary Sheathing Height	144.5 in	2.15

Table 4: PaR SFP Rack Input Data

Inner Length of Outer Box	6.843 in	2.20
Outer Box Thickness	0.125 in	2.20
Outer Length of Outer Box	7.093 in	2.19
Inner Length of Inner Box	6.156 in	2.19
Inner Box Thickness	0.125 in	2.19
Outer Length of Inner Box	6.406 in	Calculated
Rack Box Height	179.375 in	2.19

3.7 Cycle 27 Fuel Data

Characteristics of the discharged spent fuel from the expected Cycle 27 discharge on 10/31/2020 were transmitted from Reference 2.17 (Attachment 3) and are presented in Attachment 4. Per Attachment 4, the enrichment and uranium mass are consistent with Attachment 4 of Reference 2.11. The discharge date and resulting burnup values are updated. To bound any bundle in the Cycle 27 core, the lowest enrichment and greatest mass of uranium (MTU) from Reference 2.11 and the highest burnup from Attachment 4 were used. Specifically, these values were:

- 3.936% enrichment
- 50,585 MWd/MTU
- 0.1865 MTU/assembly

4.0 Methodology

The heat-up of the fuel rods, upper plenum, lower plenum, channel box, and SFP rack are calculated separately. Figure 1 shows the geometry and heat transfer pathways between each component. The heat-up of each component is calculated by Equation 4-1.

Equation 4-1:

$$\dot{q} = m \times c_p \times \frac{\Delta T}{\Delta t}$$

Where:

\dot{q} is the net heat generation rate in BTU/hr

m is the mass of component in lb_m ($m = \rho \times V$)

c_p is the specific heat in $\text{BTU}/\text{lb}_m\text{-}^\circ\text{F}$

ΔT is the temperature increase in $^\circ\text{F}$

Δt is the heat-up time in hr

ρ is density in lb_m/ft^3

V is volume in ft^3

This calculation seeks to determine the increase in temperature over sequential time steps, so Equation 4-1 is solved for ΔT .

Equation 4-2:

$$\Delta T = \frac{\dot{q} \times \Delta t}{m \times c_p}$$

The methodology used to determine the net heat load and heat-up of each component is detailed in the following sections.

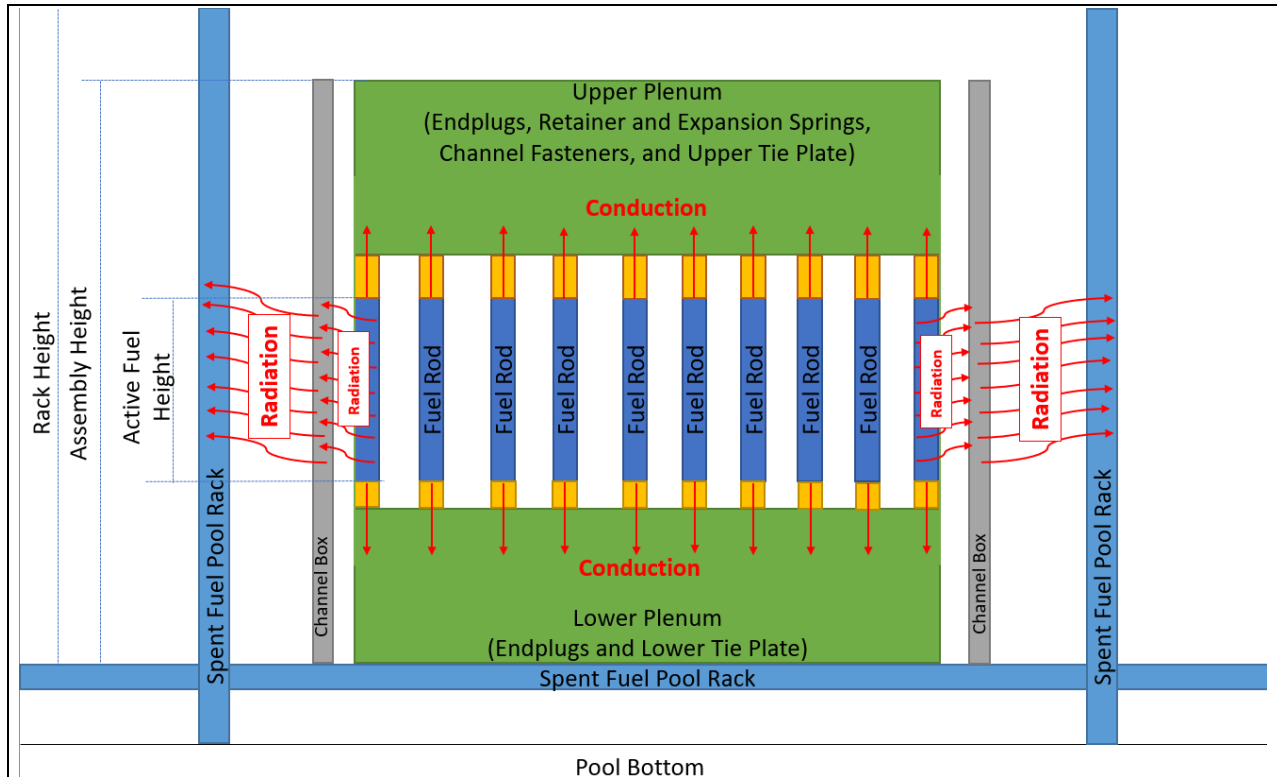


Figure 1: Spent Fuel Pool Cell Geometry and Heat Transfer Pathways (not to scale)

4.1 Decay Heat Load

The maximum heat load from a single fuel bundle is computed using ORIGEN-ARP, which is part of SCALE Version 6.1 computer code (Reference 2.8). ORIGEN-ARP is a SCALE analytical sequence that serves as a faster and easier-to-use alternative to traditional burnup analyses while preserving the accuracy of more complex computational systems. In the analysis scheme, time-dependent material concentrations are solved using the ORIGEN-S isotope depletion and decay code. ARP interpolates cross section libraries for the GE10×10 assembly design and parameters specified in the input. The cross sections from ARP are then used in ORIGEN-S, which performs depletion and decay (Reference 2.8). The SCALE program package provides a cross section library for the GE10×10 assembly design for use in the ORIGEN-ARP program sequence.

In addition to the enrichment, burnup, and uranium mass, the moderator density and bundle power level in MW/MTU are needed as inputs into ORIGEN-ARP. A moderator density of 0.429 g/cm^3 is used consistent with Reference 2.11. The bundle power level is calculated using Equation 4-3, consistent with the methodology in Reference 2.11.

Equation 4-3:

$$\text{Limiting Bundle Power Level} = \frac{\text{Burnup}}{\text{Irradiation Time}}$$

The irradiation time is calculated based on the Cycle 25 start date and the Cycle 27 end date (Assumption 5.14). The Cycle 25 start date is 11/26/2014 (Reference 2.11) and the Cycle 27 end date is 10/31/2020 per Design Input 3.7. The decay heat load is calculated for nine decay times, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, and 12 months.

4.2 Fuel Bundle Heat Load

The heat-up time of the fuel bundle at a given time after shutdown is determined by first determining the heat load of the fuel, the heat load dispersed into the upper and lower plenums, and the heat load dispersed to the channel box. The net heat-up rate of the fuel is calculated by taking the total bundle decay heat load calculated in ORIGEN-ARP and subtracting the heat dispersed into the upper and lower plenums and the channel box.

Equation 4-4:

$$\dot{q}_{fuel} = \dot{q}_{decay} - \dot{q}_{upper} - \dot{q}_{lower} - \dot{q}_{channel}$$

Where:

\dot{q}_{fuel} is the net heat generation rate in the fuel in BTU/hr

\dot{q}_{decay} is the total decay heat generation rate in BTU/hr (See Section 4.1)

\dot{q}_{upper} is the heat transferred from the fuel to the upper plenum in BTU/hr (See Section 4.3)

\dot{q}_{lower} is the heat transferred from the fuel to the lower plenum in BTU/hr (See Section 4.3)

$\dot{q}_{channel}$ is the heat transferred from the fuel to the channel box in BTU/hr (See Section 4.4)

The zircaloy-2 cladding and the uranium dioxide fuel heat-up at the same rate, so the $\Delta T/\Delta t$ will be the same for both materials. For the fuel rods, Equation 4-1 becomes Equation 4-5.

Equation 4-5:

$$\dot{q}_{fuel} = \frac{\Delta T_{fuel}}{\Delta t} \times (m_u \times c_{p,u} + m_z \times c_{p,z})$$

Where:

ΔT_{fuel} is the temperature change of the fuel rods in °F

X_u signifies the property is for uranium dioxide (Ex. m_u is the mass of uranium dioxide)

X_z signifies the property is for zircaloy-2 (Ex. m_z is the mass of zircaloy-2)

Similarly, Equation 4-2 becomes Equation 4-6.

Equation 4-6:

$$\Delta T_{fuel} = \frac{\dot{q}_{fuel} \times \Delta t}{(m_u \times c_{p,u} + m_z \times c_{p,z})}$$

The volume of uranium is given below.

Equation 4-7:

$$V_u = \left(\left(\pi \times \frac{D_p^2}{4} \right) N_{FL} \times L_{FL} \right) + \left(\left(\pi \times \frac{D_p^2}{4} \right) N_{(L)} \times L_{(L)} \right) + \left(\left(\pi \times \frac{D_p^2}{4} \right) N_{(S)} \times L_{(S)} \right)$$

Where:

D_p is the diameter of the uranium pellet in ft

N_{FL} is the number of full length heated rods

L_{FL} is the heated length of the full length rods in ft

$N_{(L)}$ is the number of long partial length heated rods

$L_{(L)}$ is the heated length of long partial length rods in ft

$N_{(S)}$ is the number of short partial length heated rods

$L_{(S)}$ is the heated length of short partial length rods in ft

The mass of uranium is calculated as follows.

Equation 4-8:

$$M_U = V_U \times \rho_U$$

Where:

M_U is the mass of the uranium fuel in lb_m

ρ_U is the density of uranium in lb_m/ft³

The volume of zircaloy-2 cladding in the active fuel region (the volume of the heated rods and water rods) is summed as determined below. The length of the cladding is the length of the active fuel region of the rods. Water rods are credited for the length of the active fuel region of a full-length fuel rod, with the diameter of the water rods varying over the height as shown in Table 2.

Equation 4-9:

$$V_{z,cl} = \left(\left(\pi \times \frac{D_{c,o}^2 - D_{c,i}^2}{4} \right) N_{FL} \times L_{FL} \right) + \left(\left(\pi \times \frac{D_{c,o}^2 - D_{c,i}^2}{4} \right) N_{(L)} \times L_{(L)} \right) + \left(\left(\pi \times \frac{D_{c,o}^2 - D_{c,i}^2}{4} \right) N_{(S)} \times L_{(S)} \right)$$

Where:

$V_{z,cl}$ is the volume of zircaloy-2 in the cladding of heated fuel rods in ft³

$D_{c,o}$ is the outer diameter of the cladding in ft

$D_{c,i}$ is the inner diameter of the cladding in ft

Equation 4-10:

$$V_{z,w} = \left(\left(\pi \times \frac{D_{w,o}^2 - D_{w,i}^2}{4} \right) (L_{FL} - L_{w,end}) + \left(\pi \times \frac{D_{w,o,end}^2 - D_{w,i,end}^2}{4} \right) L_{w,end} \right) \times N_w$$

Where:

$V_{z,w}$ is the volume of zircaloy-2 in the water rods in ft³

$D_{w,o}$ is the outer diameter of the water rods in ft

$D_{w,i}$ is the inner diameter of the water rods in ft

$D_{w,o,end}$ is the outer diameter of the ends of the water rods in ft

$D_{w,i,end}$ is the inner diameter of the ends of the water rods in ft

$L_{w,end}$ is the total length of the ends of the water rods in ft

N_w is the number of water rods

From Table 2, $L_{w,end}$ is 14.14 in + (150 in - 147.39 in) = 16.75 in.

The total volume of zircaloy-2 cladding is:

Equation 4-11:

$$V_z = V_{z,cl} + V_{z,w}$$

Where:

V_z is the total zircaloy-2 cladding volume in ft³

The mass of zircaloy-2 cladding in the active fuel region is calculated as follows:

Equation 4-12:

$$M_z = (V_z \times \rho_z) + M_s$$

Where:

M_z is the mass of the zircaloy-2 cladding in lb_m

ρ_z is the density of zircaloy-2 in lb_m/ft³

M_s is the mass of the spacers in lb_m

For each time step, Equation 4-6 is solved to determine the change in temperature starting with the initial temperature of 85°F, 90°F, 95°F, or 120°F (Assumption 5.7). \dot{q}_{fuel} is calculated using Equation 4-4. The specific heat capacity of uranium is determined using Equation 3-2 at the initial temperature. The specific heat capacity of zircaloy-2 at the initial temperature is determined by interpolating between the various data points in Table 1. Using the mass of uranium calculated by Equation 4-8 and the mass of zircaloy-2 calculated by Equation 4-12, the change in temperature (ΔT) of the time step is calculated. For the next time step the initial temperature is determined by adding the initial temperature and ΔT from the previous time step.

4.3 Upper and Lower Plenum Heat Load

The mass of the upper and lower plenums broken down by material is shown in Reference 2.13. The upper plenum is 2.83 lb_m of zircaloy-2, 5.87 lb_m of stainless steel, and 0.8 lb_m of Inconel Alloy X-750. The lower plenum is 14.62 lb_m of stainless steel and 2.83 lb_m of zircaloy-2. The properties of zircaloy-2 are used for the entire mass of the upper and lower plenum (Assumption 5.10). The total mass of each plenum is given in Table 2.

Conduction heat transfer to the upper and lower plenums is given below.

Equation 4-13:

$$\dot{q}_{plenum} = \frac{kA}{L} \Delta T$$

Where:

\dot{q}_{plenum} is the heat transferred from the fuel to the upper or lower plenum in BTU/hr

k is the thermal conductivity of cladding in BTU/hr-ft-°F

A is the cross-sectional area of cladding in contact with the upper or lower plenum in ft²

ΔT is the temperature difference between the fuel and the upper or lower plenum in °F

L is the length from the active fuel to the top or bottom of the assembly in ft

The cross-sectional area of the cladding in contact with the upper plenum is smaller than the area in contact with the lower plenum because cladding on the partial length fuel rods does not extend to the upper plenum. The cross-sectional area for each plenum is given by the equations below.

Equation 4-14:

$$A_{upper} = \left(\left(\pi \times \frac{D_{c,o}^2 - D_{c,i}^2}{4} \right) N_{FL} \right) + \left(\left(\pi \times \frac{D_{w,o,end}^2 - D_{w,i,end}^2}{4} \right) N_w \right)$$

Equation 4-15:

$$A_{lower} = \left(\left(\pi \times \frac{D_{c,o}^2 - D_{c,i}^2}{4} \right) (N_{FL} + N_{(L)} + N_{(S)}) \right) + \left(\left(\pi \times \frac{D_{w,o,end}^2 - D_{w,i,end}^2}{4} \right) N_w \right)$$

The thermal conductivity of the zircaloy-2 cladding is calculated using Equation 3-1. Equation 4-2 for each plenum is given below.

Equation 4-16:

$$\Delta T_{upper} = \frac{\dot{q}_{upper} \times \Delta t}{m_{upper} \times c_{p,upper}}$$

Where:

ΔT_{upper} is the temperature change of the upper plenum in °F

m_{upper} is the mass of the upper plenum in lb_m

$c_{p,upper}$ is the specific heat of the upper plenum in BTU/lb_m-°F

Equation 4-17:

$$\Delta T_{lower} = \frac{\dot{q}_{lower} \times \Delta t}{m_{lower} \times c_{p,lower}}$$

Where:

ΔT_{lower} is the temperature change of the lower plenum in °F

m_{lower} is the mass of the lower plenum in lb_m

$c_{p,lower}$ is the specific heat of the lower plenum in BTU/lb_m-°F

The specific heat capacity of zircaloy-2 used for the upper and lower plenums (Assumption 5.10) is determined by interpolating between the various data points in Table 1.

4.4 Channel Box Heat Load

The volume of the channel box is determined by the inside width, a weighted average thickness based on the groove and sidewall thickness, and the active length of the rods. This is conservative, as the actual channel box is slightly thicker due to the thick corners and is longer than the active length of the fuel.

Equation 4-18:

$$V_{channel} = 4 \times L_{FL} \times W_{cb} \times \left[\frac{T_g \times 2 * (W_g + 2W_{gr})}{W_{cb}} + \frac{T_w \times [W_{cb} - 2 * (W_g + 2W_{gr})]}{W_{cb}} \right]$$

Where:

$V_{channel}$ is the volume of zircaloy-2 in the channel box in ft³

W_{cb} is the inside width of the channel box in ft

W_g is the width of the groove in ft

W_{gr} is the width of the groove ramp in ft

T_g is the groove thickness of the channel box in ft

T_w is the side wall thickness of the channel box in ft

The mass of the channel box is determined by multiplying the volume by the density of zircaloy-2.

Radiative heat transfer from the fuel rods to the channel box is calculated using the equation below.

Equation 4-19:

$$\dot{q}_{channel} = \sigma E A_s (T_{fuel}^4 - T_{channel}^4)$$

Where:

σ is the Stefan-Boltzmann constant of $1.71 \times 10^{-9} \frac{BTU}{hr ft^2 \text{ } ^\circ R^4}$

E is the emissivity of zirconium of 0.4 (Assumption 5.11)

A_s is the surface area of cladding in ft^2

T_{fuel} is the temperature of the fuel in $^\circ R$

$T_{channel}$ is the temperature of the channel box in $^\circ R$

The surface area of the cladding exposed to the channel box is calculated as the width of the assembly times the active fuel height times 4 sides (Assumption 5.3).

Equation 4-20:

$$A_s = 4 \times L_{FL} \times W_{fa}$$

Where:

W_{fa} is the width of the fuel assembly in ft

To calculate the temperature change of the channel box at each time step, radiative heat transfer from the channel box to the SFP rack, calculated in Section 4.5, is also considered. The temperature change for the channel box is given below.

Equation 4-21:

$$\Delta T_{channel} = \frac{(\dot{q}_{channel} - \dot{q}_{rack}) \times \Delta t}{m_{channel} c_{p,channel}}$$

Where:

$\Delta T_{channel}$ is the temperature change of the channel box in $^\circ F$

\dot{q}_{rack} is the heat transferred from the channel to the SFP rack in BTU/hr (See Section 4.5)

$m_{channel}$ is the mass of the channel box in lb_m

$c_{p,channel}$ is the specific heat of the channel box in $BTU/lb_m \text{ } ^\circ F$

The specific heat capacity of zircaloy-2 used for the channel box is determined by interpolating between the various data points in Table 1.

4.5 SFP Rack Heat Load

The volume of the SFP rack available for radiative heat transfer is conservatively calculated with the assumption that the surrounding SFP cells are filled and the rack walls are shared between adjacent cells for the purposes of heat transfer.

For Holtec racks, the limiting assembly can be placed in three different locations in the rack, an interior cell, a corner cell, and an outer cell not in the corner. Each interior cell has inner

sheathing on each wall and cells on the outer edge of the rack have inner sheathing on each interior wall (Reference 2.15). Reference 2.15 does not show outer sheathing on all of the exterior walls, for conservatism boundary sheathing is not credited.

For an assembly in an interior cell, only half of the SFP rack volume would be utilized (each wall is shared equally with an adjacent assembly, Reference 2.15). For an assembly in a corner cell, three fourths of the SFP rack volume would be utilized (the two exterior walls plus half of each shared wall, Reference 2.15). For an assembly in an outer cell, five eighths (two and a half out of the four walls) of the SFP rack volume would be utilized (the one exterior wall plus half of each shared wall, Reference 2.15).

For the interior cell case, two walls worth of inner sheathing would be utilized (each wall's inner sheathing is shared equally with an adjacent assembly, Reference 2.15). For a corner cell, only one wall's worth of inner sheathing would be utilized because only the two shared walls have inner sheathing (Reference 2.15). For an outer cell, one and half wall's worth of inner sheathing would be utilized because only the three shared walls have inner sheathing (Reference 2.15).

The height of the SFP rack is taken to be the active fuel length consistent with the dimension used for radiative heat transfer from the fuel to the channel box. The Holtec SFP rack volume is calculated using the equation below for each bundle location. The location with the smallest volume is used for conservatism.

Equation 4-22:

$$V_{rack,Holtec} = A \times (L_{Holtec,o}^2 - L_{Holtec,i}^2) \times H_{rack} + B \times W_i \times T_i \times H_i$$

Where:

$V_{rack,Holtec}$ is the effective volume of the Holtec SFP rack in ft³

$L_{Holtec,o}$ is the outer length of the Holtec SFP rack in ft

$L_{Holtec,i}$ is the inner length of the Holtec SFP rack in ft

H_{rack} is the height of the SFP rack in ft (assumed to be the active fuel length, L_{FL})

W_i is the width of the inner sheathing of the Holtec SFP rack in ft

T_i is the thickness of the inner sheathing of the Holtec SFP rack in ft

H_i is the height of the inner sheathing of the Holtec SFP rack in ft

A is the fraction of the total rack volume utilized

B is the walls worth of inner sheathing volumes utilized

The mass of the Holtec SFP rack is determined by multiplying the volume by the density of stainless steel.

PaR racks are made up of two concentric square aluminum tubes with Boral shielding in between them (Reference 2.19). Only the volume of the inner square tube is credited because the two tubes are not connected within the active fuel region and there is a layer of Boral shielding between them. This is conservative because conduction through the Boral and outer tube would occur. The height of the SFP rack is taken to be the active fuel length. The volume of a typical PaR SFP rack is calculated using the equation below. For conservatism, an interior cell with all shared walls is used, resulting in only half of the rack volume being utilized.

Equation 4-23:

$$V_{rack,PaR} = \frac{(L_{PaR,i,o}^2 - L_{PaR,i,i}^2) \times H_{rack}}{2}$$

Where:

$V_{rack,PaR}$ is the effective volume of the PaR SFP rack in ft³

$L_{PaR,i,o}$ is the outer length of the inner box of the PaR SFP rack in ft

$L_{PaR,i,i}$ is the inner length of the inner box of the PaR SFP rack in ft

The mass of the PaR SFP rack is determined by multiplying the volume by the density of aluminum 356.0-T51.

Radiative heat transfer from the channel box to the SFP rack is calculated using the equation below.

Equation 4-24:

$$\dot{q}_{rack} = \sigma E A_s (T_{channel}^4 - T_{rack}^4)$$

Where:

A_s is the surface area of the channel box in ft²

T_{rack} is the temperature of the SFP rack in °R

The surface area of the channel box is conservatively calculated as the width of the assembly times the active fuel height times 4 sides (Assumption 5.3). This results in the same surface area used to calculate the radiative heat transfer from the fuel to the channel box.

PaR racks are made of aluminum 356.0-T51, which has a melting temperature range of 560°C to 615°C (Reference 2.21). Because the melting point of aluminum 356.0-T51 is below the 900°C zirconium fire temperature, the PaR SFP racks will begin to melt before the onset of a zirconium fire. For conservatism, radiative heat transfer to the PaR SFP racks is not credited when the temperature of the rack is above 560°C (833K) (Assumption 5.16). For PaR SFP racks, Equation 4-24 becomes Equation 4-25.

Equation 4-25:

$$\dot{q}_{rack,PaR} = \sigma E A_s (T_{channel}^4 - T_{rack,PaR}^4), T_{rack,PaR} < 833K$$

$$\dot{q}_{rack,PaR} = 0, T_{rack,PaR} > 833K$$

Where:

$\dot{q}_{rack,PaR}$ is the heat transferred from the channel to the PaR SFP rack in BTU/hr

$T_{rack,PaR}$ is the temperature of the PaR SFP rack in °R

Equation 4-2 for the SFP rack is given below.

Equation 4-26:

$$\Delta T_{rack} = \frac{\dot{q}_{rack} \times \Delta t}{m_{rack} \times c_{p,rack}}$$

Where:

ΔT_{rack} is the temperature change of the SFP rack in °F

m_{rack} is the mass of the SFP rack in lb_m

$c_{p,rack}$ is the specific heat of the SFP rack in BTU/lb_m-°F

The specific heat capacity of stainless steel used for the Holtec SFP racks is determined using Equation 3-3 and the specific heat of aluminum used for the PaR SFP racks is given in Section 3.4.

5.0 Assumptions

- 5.1 The heat-up time is conservatively assumed to start when the SFP has been completely drained. The draining process is assumed to be instantaneous (the water vanishes instantly). This is conservative as the drain down time (boil-off) would increase the time to cladding failure.
- 5.2 This analysis conservatively assumes that there is no air cooling of the assemblies (i.e., adiabatic conditions): the flow paths that would provide natural circulation cooling are assumed to be blocked.
- 5.3 The surface area of the fuel rod cladding used for radiative heat transfer to the channel box and the SFP rack is assumed to be the assembly width times the active fuel height times four sides. This assumption is conservative for heat transfer between the fuel rods and the channel box because the surface area of both interior and exterior fuel rods is visible to the channel box. The curvature of the individual fuel rods on the periphery (28 full length and 8 partial length rods) would create a slightly larger surface area than the rectangular equivalent. This assumption is also conservative for heat transfer between the channel box and SFP rack because the width of the channel box is larger than the width of the assembly.
- 5.4 The oxygen to metal ratio in the equation to determine the specific heat capacity of UO₂ is assumed to be 2.00. This assumption is conservative since in fresh fuel there exists a 2 to 1 ratio of oxygen to uranium atoms in the fuel. As the fuel is burnt some uranium atoms fission and this ratio increases slightly. As demonstrated by Figure 2-1 of Reference 2.9, the specific heat capacity of UO₂ increases with an increasing oxygen to metal ratio.
- 5.5 The spacers are assumed to be zircaloy-2. Per Design Input 3.5, the spacers are composed of Inconel Alloy X-750, but tie into other structures that are made of

zircaloy-2 (fuel and water rods). This assumption is conservative since the specific heat capacity of zircaloy-2 is less than that of Inconel X-750 (Reference 2.12) and a lower specific heat capacity causes the material to heat up faster, resulting in a longer decay time necessary for the limiting assembly. Spacer mass can be included since they form a direct conductive pathway.

- 5.6** One month is defined as 365.25 days divided by 12, or 30.4375 days. One half month would then correspond to 15.2188 days.
- 5.7** Four starting SFP temperatures of 85°F, 90°F, 95°F, and 120°F are assumed for the heat-up analysis. The SFP temperature is normally maintained below 120°F with the Fuel Pool Cooling and Cleanup (FPCC) system in operation (Ref. 2.14). Note that SECY-99-168 (Reference 2.5) and NUREG-1738 (Reference 2.4) both set the starting water temperature at 30°C (86°F).
- 5.8** Material properties are determined at the initial temperature of each time step. The empirical formulas and the specific heat capacity values in Table 1 are increasing with temperature from the range of 300K (80°F) to 1,173K (900°C). With an increasing temperature in each time step it is conservative to use the initial temperature resulting in a lower specific heat capacity than the average value for the time step.
- 5.9** Initial temperatures within the fuel bundle and of the SFP rack are assumed to be uniform at the starting temperatures in Assumption 5.7. Under adiabatic conditions (Assumption 5.2) any initial temperature gradients present between regions (fuel rods, water rods, structural elements and water/air region) approach zero on a shorter time scale than the calculated heat-up times due to the lack of cooling. This assumption is reasonable as slight variations are bounded by the overall conservatisms in Assumption 5.2 (adiabatic conditions) and Assumption 5.1 (no credit assumed for drain down/boil-off time).
- 5.10** The upper and lower plenums are assumed to be entirely zircaloy-2. Per Reference 2.13, the upper plenum consists of stainless steel, zircaloy, and Inconel Alloy X-750. The lower plenum consists of stainless steel and zircaloy. Both plenums contain some zircaloy and tie into other structures that are made of zircaloy-2 (fuel and water rods). This assumption is conservative since the specific heat capacity of zircaloy-2 is less than that of Inconel X-750 (Reference 2.12) and stainless steel (Reference 2.9), and a lower specific heat capacity causes the material to heat up faster, resulting in a longer decay time necessary for the limiting assembly.
- 5.11** Reference 2.9 Figure 5-7 shows a range of zircaloy emissivity values from 0.4 to 0.8. The lowest value of 0.4 is conservatively assumed. The emissivity of anodized aluminum is 0.82 at 300K (Reference 2.7). The emissivity of stainless steel varies with oxidation. At 800K the emissivity of lightly oxidized stainless steel is 0.33 and the emissivity of highly oxidized stainless steel is 0.67 (Reference 2.7). A sensitivity study adding a factor of 0.8 to the emissivity value in the limiting case (PaR SFP rack, initial temperature of 120°F) results in a change in the 10-hour fuel temperature of less than

0.1°C (see Attachment 14). Because the oxidation level of the Holtec SFP racks is unknown, the emissivity of zircaloy-2 (0.4) is assumed for both types of SFP racks.

- 5.12** The temperature dependent thermal conductivity used to determine the conductive heat transfer between the fuel and the upper and lower plenums uses the minimum temperature of the two sub components, which is the upper or lower plenum at all time steps. This is conservative because the thermal conductivity increases with temperature and a smaller thermal conductivity results in less heat transfer from the fuel to the upper or lower plenum.
- 5.13** Conduction is credited between the fuel region and the upper plenum of the assembly despite there not being direct contact between the cladding and the upper tie plate, which makes up 46% of the upper plenum mass per Reference 2.13. A direct conductive pathway exists from the cladding to the endplugs and retainer and expansion springs, whose mass is credited as part of the upper plenum. At higher temperatures, there would be radiative heat transfer between these components and the upper tie plate, thermally connecting the fuel region and the upper tie plate. A sensitivity study shows that not crediting the upper tie plate mass for conduction results in less than a 1°C increase in the 10-hour fuel temperature (see Attachment 15). For these reasons, the simplifying assumption that the entire mass of the upper plenum is available for conductive heat transfer is made. Note, this assumption does not apply to the lower plenum because there is direct contact between the fuel cladding and the lower tie plate and endplugs that make up the lower plenum.
- 5.14** The decay heat load calculated in ORIGEN-ARP uses continuous burn until the desired level of burnup is reached. Down time between cycles is not included. This is a conservative assumption that addressed any concerns about the effect of down time between cycles on the decay heat. Down time between cycles would provide time for decay of isotopes, which would decrease the decay heat load.
- 5.15** A constant specific heat value of 0.230 BTU/lb-°F at 100°C (212°F) is assumed for aluminum 356.0-T51. This is conservative because the specific heat capacity of aluminum alloys increases with temperature (Reference 2.22) and using a lower specific heat value will result in less heat transferred from the channel box to the PaR SFP rack.
- 5.16** PaR racks are made of aluminum 356.0-T51, which has a melting temperature range of 560°C to 615°C (Reference 2.21). Because the melting point of aluminum 356.0-T51 is below the 900°C zirconium fire temperature, the PaR SFP racks will begin to melt before the onset of a zirconium fire. As the rack begins to melt, it may deform, causing the viewing angle between the channel box and the rack to change. Because the racks are close together and adjacent rack cells are connected, a single rack cell will likely not be able to deform significantly as it approaches the melting temperature. NUREG-1738 (Reference 2.4) discusses that the SFP rack configuration is subject to unpredictable changes during certain initiating event such as an earthquake or cask drop resulting in the loss of SFP inventory. Because the SFP rack configuration is not expected to remain

intact during a loss of SFP inventory, the change in rack configuration as a result of material degradation does not impact the validity of this analysis. For conservatism, radiative heat transfer to the PaR SFP racks is not credited when the temperature of the rack is above 560°C (833K). Additional conservatism is included in the calculation of radiative heat transfer to the PaR racks by using a constant specific heat value (Assumption 5.15), by using the emissivity value for zircaloy-2 (Assumption 5.11), and by only crediting the rack mass located within the active fuel region.

5.17 The view factor used for radiative heat transfer to the channel box and the SFP rack is assumed to be 1.0. For heat transfer between the fuel rods and the channel box, the view factor can be approximated as two parallel plates based on the close spacing of the external fuel rods. The view factor will increase if the surface area of both internal and external fuel rods is credited as discussed in Assumption 5.3. For heat transfer between the channel box and SFP rack, the view factor can be calculated for two parallel plates and is greater than 0.95. A sensitivity study using a view factor of 0.8 in the limiting case (PaR SFP rack, initial temperature of 120°F) results in a change in the 10-hour fuel temperature of less than 0.1°C (see Attachment 14). Therefore, for simplicity, a view factor of 1.0 is used for all radiative heat transfer calculations.

6.0 Calculation

6.1 Decay Heat Load

To calculate the decay heat load from the limiting bundle described in Design Input 3.7, the bundle power level in MW/MTU is calculated as an ORIGEN-ARP using Equation 4-3.

$$\text{Limiting Bundle Power Level} = \frac{50,585 \frac{\text{MWd}}{\text{MTU}}}{2166 \text{ days}} = 23.35 \frac{\text{MW}}{\text{MTU}}$$

Table 5 shows the ORIGEN-ARP inputs used.

Table 5: ORIGEN-ARP Inputs

Parameter	Value
Case Title	0YBoundingRev1
Fuel Type	GE10x10-8
Basis (g)	1.00E+06
Enrichment (wt% U235)	3.936
Mass of Uranium (MTU)	0.1865
Burnup (MWd/MTU)	50,585
Moderator Density (g/cm ³)	0.429
Power (MW/MTU)	23.35
Decay Time (years)	0.00
	0.67
	0.71
	0.75
	0.79
	0.83
	0.875
	0.92
	0.96
	1.00

The resulting decay heat load at each decay time is shown in Table 6. The decay heat load in W/MTU is converted to BTU/hr/Bundle based on the weight of the mass of uranium in Design Input 3.7, shown below for the 0.67 year (8.0 month) decay heat load.

$$\begin{aligned}
 8.0 \text{ month bundle heat load} &= 1.333E + 04 \frac{W}{MTU} \times \frac{3.412 \frac{BTU}{hr}}{W} \times 0.1865 \text{ MTU} \\
 &= 8,482.39 \frac{BTU/hr}{Bundle}
 \end{aligned}$$

Table 6: Decay Heat Load at Various Cooling Times

Decay Time (years)	Decay Time (months)	Decay Heat Load (MW/MTU)	Decay Heat Load (BTU/hr/Bundle)
0.67	8.0	1.333E+04	8,482.39
0.71	8.5	1.283E+04	8,164.22
0.75	9.0	1.237E+04	7,871.50
0.79	9.5	1.195E+04	7,604.24
0.83	10.0	1.155E+04	7,349.70
0.875	10.5	1.115E+04	7,095.17
0.92	11.0	1.077E+04	6,853.36
0.96	11.5	1.045E+04	6,649.73
1.00	12.0	1.016E+04	6,465.19

6.2 Fuel Bundle Mass

The volume of Uranium Dioxide in the hottest fuel bundle is determined below using Equation 4-7:

$$\begin{aligned}
 V_u = & \left(\left(\pi \times \frac{\left(\frac{0.3496 \text{ in}}{12 \text{ in/ft}} \right)^2}{4} \right) 78 \text{ rods} \times \frac{150 \text{ in}}{12 \text{ in/ft}} \right) \\
 & + \left(\left(\pi \times \frac{\left(\frac{0.3496 \text{ in}}{12 \text{ in/ft}} \right)^2}{4} \right) 8 \text{ rods} \times \frac{102 \text{ in}}{12 \text{ in/ft}} \right) \\
 & + \left(\left(\pi \times \frac{\left(\frac{0.3496 \text{ in}}{12 \text{ in/ft}} \right)^2}{4} \right) 6 \text{ rods} \times \frac{54 \text{ in}}{12 \text{ in/ft}} \right) = 0.7133 \text{ ft}^3
 \end{aligned}$$

The resulting mass of Uranium Dioxide using Equation 4-8 and the density from Input 3.2 is:

$$m_u = 0.7133 \text{ ft}^3 \times 649.88 \frac{\text{lbm}}{\text{ft}^3} = 463.54 \text{ lbm}$$

The volume of zircaloy-2 in the cladding is determined below using Equation 4-9:

$$\begin{aligned}
 V_{z,cl} = & \left(\left(\pi \times \frac{\left(\frac{0.404 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{0.3568 \text{ in}}{12 \text{ in/ft}}\right)^2}{4} \right) 78 \text{ rods} \times \frac{150 \text{ in}}{12 \text{ in/ft}} \right) \\
 & + \left(\left(\pi \times \frac{\left(\frac{0.404 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{0.3568 \text{ in}}{12 \text{ in/ft}}\right)^2}{4} \right) 8 \text{ rods} \times \frac{102 \text{ in}}{12 \text{ in/ft}} \right) \\
 & + \left(\left(\pi \times \frac{\left(\frac{0.404 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{0.3568 \text{ in}}{12 \text{ in/ft}}\right)^2}{4} \right) 6 \text{ rods} \times \frac{54 \text{ in}}{12 \text{ in/ft}} \right) = 0.2096 \text{ ft}^3
 \end{aligned}$$

The volume of zircaloy-2 cladding in the water rods is determined below using Equation 4-10:

$$\begin{aligned}
 V_{z,w} = & \left(\left(\pi \times \frac{\left(\frac{0.98 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{0.92 \text{ in}}{12 \text{ in/ft}}\right)^2}{4} \right) 2 \text{ water rods} \times \frac{150 \text{ in} - 16.75 \text{ in}}{12 \text{ in/ft}} \right) \\
 & + \left(\left(\pi \times \frac{\left(\frac{0.591 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{0.531 \text{ in}}{12 \text{ in/ft}}\right)^2}{4} \right) \frac{16.75 \text{ in}}{12 \text{ in/ft}} \right) 2 \text{ water rods} = 0.0148 \text{ ft}^3
 \end{aligned}$$

The total zircaloy-2 cladding volume is then determined below from Equation 4-11:

$$V_z = 0.2096 \text{ ft}^3 + 0.0148 \text{ ft}^3 = 0.2244 \text{ ft}^3$$

The resulting total mass of zircaloy-2 in the fuel bundle is calculated using Equation 4-12 with the volume above and the density from Input 3.1 along with the mass of the spacers from Input 3.5:

$$m_z = \left(0.2244 \text{ ft}^3 \times 409.53 \frac{\text{lbm}}{\text{ft}^3} \right) + 2.13 \text{ lbm} = 94.03 \text{ lbm}$$

6.3 Upper and Lower Plenum Heat Transfer Area

The cross-sectional area used to calculate conduction between the fuel and the upper plenum is determined below using Equation 4-14:

$$A_{upper} = \left(\left(\pi \times \frac{\left(\frac{0.404 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{0.3568 \text{ in}}{12 \text{ in/ft}}\right)^2}{4} \right) 78 \text{ rods} \right) + \left(\left(\pi \times \frac{\left(\frac{0.591 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{0.531 \text{ in}}{12 \text{ in/ft}}\right)^2}{4} \right) 2 \text{ water rods} \right) = 0.0160 \text{ ft}^2$$

The cross-sectional area used to calculate conduction between the fuel and the lower plenum is determined below using Equation 4-15:

$$A_{lower} = \left(\left(\pi \times \frac{\left(\frac{0.404 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{0.3568 \text{ in}}{12 \text{ in/ft}}\right)^2}{4} \right) (78 + 8 + 6 \text{ rods}) \right) + \left(\left(\pi \times \frac{\left(\frac{0.591 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{0.531 \text{ in}}{12 \text{ in/ft}}\right)^2}{4} \right) 2 \text{ water rods} \right) = 0.0188 \text{ ft}^2$$

The value of L for conduction to the lower plenum is 7.436 in (0.620 ft) (Reference 2.13) and the value of L for conduction to the upper plenum is 1.562 ft, calculated as the total assembly length minus the active fuel length and the distance to the bottom of the lower plenum, or $176.18 \text{ in} - 150 \text{ in} - 7.436 \text{ in} = 18.744 \text{ in}$ (1.562 ft).

6.4 Channel Box Mass and Heat Transfer Area

The total zircaloy-2 volume of the channel box is determined below from Equation 4-18:

$$V_{channel} = 4 \times \frac{150 \text{ in}}{12 \text{ in/ft}} \times \frac{5.283 \text{ in}}{12 \text{ in/ft}} \times \left[\frac{0.05 \text{ in} \times 2 * (0.798 \text{ in} + 2(0.027 \text{ in}))}{5.283 \text{ in}} + \frac{0.065 \text{ in} \times [5.283 \text{ in} - 2 * (0.798 \text{ in} + 2(0.027 \text{ in}))]}{5.283 \text{ in}} \right] \Big/ 12 \text{ in/ft} = 0.1104 \text{ ft}^3$$

The resulting mass of the channel box using the density from Input 3.1 is:

$$m_{channel} = 0.1104 \text{ ft}^3 \times 409.53 \frac{\text{lbm}}{\text{ft}^3} = 45.20 \text{ lbm}$$

The surface area for radiative heat transfer is determined below from Equation 4-20:

$$A_s = 4 \times \frac{150 \text{ in}}{12 \text{ in/ft}} \times \frac{5.283 \text{ in}}{12 \text{ in/ft}} = 22.0125 \text{ ft}^2$$

6.5 SFP Rack Mass

The total volume of the Holtec SFP rack for each bundle location is determined using Equation 4-22. An example is shown below for the interior cell. Table 7 shows the volumes for each location. The interior cell has the smallest volume and is used for conservatism.

$$\begin{aligned} V_{rack,Holtec,interior} &= \frac{\left(\left(\frac{6.02 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{5.90 \text{ in}}{12 \text{ in/ft}}\right)^2\right) \times \frac{150 \text{ in}}{12 \text{ in/ft}}}{2} \\ &+ 2 \times \frac{5.08 \text{ in}}{12 \text{ in/ft}} \times \frac{0.0235 \text{ in}}{12 \text{ in/ft}} \times \frac{146.5 \text{ in}}{12 \text{ in/ft}} = 0.0823 \text{ ft}^3 \end{aligned}$$

Table 7: Holtec SFP Rack Volumes

Interior Cell Rack Volume (ft ³)	0.0823
Corner Cell Rack Volume (ft ³)	0.1032
Outer Cell Rack Volume (ft ³)	0.0928

The resulting mass of the Holtec SFP rack using the density from Input 3.3 is:

$$m_{rack,Holtec} = 0.0823 \text{ ft}^3 \times 499.39 \frac{\text{lbm}}{\text{ft}^3} = 41.11 \text{ lbm}$$

The volume of the PaR SFP rack is determined using Equation 4-23:

$$V_{rack,PaR} = \frac{\left(\left(\frac{6.406 \text{ in}}{12 \text{ in/ft}}\right)^2 - \left(\frac{6.156 \text{ in}}{12 \text{ in/ft}}\right)^2\right) \times \frac{150 \text{ in}}{12 \text{ in/ft}}}{2} = 0.1363 \text{ ft}^3$$

The resulting mass of the PaR SFP rack using the density from Input 3.4 is:

$$m_{rack,PaR} = 0.1363 \text{ ft}^3 \times 167.27 \frac{\text{lbm}}{\text{ft}^3} = 22.80 \text{ lbm}$$

6.6 Fuel Bundle Heat-up

For each time step, Equations 4-6, 4-16, 4-17, 4-21, and 4-26 are solved for their respective component in an Excel spreadsheet with an initial temperature of 85°F, 90°F, 95°F, or 120°F to determine the change in temperature (ΔT) over the time step of 0.005 seconds. For each time step, the parameters determined above and at each time step are used. The input parameters are listed in Table 8. Temperature dependent properties are calculated using the temperature at the beginning of each time step (Assumption 5.8).

Table 8: Component Properties

Parameter	Value
Fuel Mass (lb _m)	463.54
Cladding Mass (lb _m)	94.03
Upper Plenum Mass (lb _m)	9.5
Lower Plenum Mass (lb _m)	17.45
Channel Box Mass (lb _m)	45.20
Holtec SFP Rack Mass (lb _m)	41.11
PaR SFP Rack Mass (lb _m)	22.80
Upper Plenum Conduction Heat Transfer Area (ft ²)	0.0160
Lower Plenum Conduction Heat Transfer Area (ft ²)	0.0188
Upper Plenum Conduction Length (ft)	1.562
Lower Plenum Conduction Length (ft)	0.620
Radiation Heat Transfer Area (ft ²)	22.0125
Emissivity (-)	0.4
Zircaloy-2 Specific Heat (BTU/lb _m -°F)	Interpolate Table 1
Zircaloy-2 Thermal Conductivity (W/m-K)	Equation 3-1
Uranium Dioxide Specific Heat (J/kg-K)	Equation 3-2
Stainless Steel 304 Specific Heat (J/kg-K)	Equation 3-3
Aluminum 356.0-T51 Specific Heat (BTU/lb _m -°F)	0.230

For the subsequent time steps, the initial temperature is determined by adding the initial temperature and ΔT from the previous time step. The decay heat load from Table 6 that provides a 10 hour heat-up to 900°C was used for each initial temperature. Linear interpolation was used to calculate decay heat values between the values in Table 6 in order to determine the decay heat load in 0.25-month increments. Table 9 shows the decay time, decay heat load, and temperature at 10 hours for each initial temperature for Holtec SFP racks and Table 10 shows these values for PaR SFP racks. The limiting bundle decay time is the shortest decay time that results in a fuel temperature less than 900°C at 10 hours. The most limiting decay time is 9.75 months, for an initial temperature of 120°F and a PaR SFP rack. For the lower initial SFP temperatures of 95°F, 90°F, and 85°F the limiting decay time is 9.5 months for a PaR SFP rack. The limiting decay times are shorter for Holtec racks. See Attachment 1 for calculation up to 10 hours for an initial temperature of 120°F for a PaR SFP

rack. See Attachment 7 for calculation up to 10 hours for an initial temperature of 120°F for a Holtec SFP rack. Attachment 8 through Attachment 13 provide the first page of each other calculation listed in Table 9 and Table 10, which show the inputs and results. The equations used for the calculations in Attachment 8 through Attachment 13 are provided in Attachment 1 for PaR SFP racks and Attachment 7 for Holtec SFP racks.

Table 9: Fuel Heat-Up Results for Holtec SFP Racks

Initial Temperature (°F)	Limiting Bundle Decay Time (months)	Decay Heat Load (BTU/hr/Bundle)	10 Hour Fuel Temperature (°C)
85	8.75	8,017.86	895.35
90	8.75	8,017.86	897.04
95	8.75	8,017.86	898.74
120	9.0	7,871.50	895.28

Table 10: Fuel Bundle Heat-Up Results for PaR SFP Racks

Initial Temperature (°F)	Limiting Bundle Decay Time (months)	Decay Heat Load (BTU/hr/Bundle)	10 Hour Fuel Temperature (°C)
85	9.5	7,604.24	891.53
90	9.5	7,604.24	893.41
95	9.5	7,604.24	895.32
120	9.75	7,476.97	893.33

7.0 Results and Conclusions

For storage in a PaR SFP rack, the decay heat from the limiting 9.75-month (296.8 days) decay spent fuel bundle results in a fuel temperature after 10 hours less than the 900°C requirement in ISG-02 (Reference 2.1) for all initial temperatures. For lower initial temperatures of 95°F, 90°F, and 85°F the limiting decay time is 9.5-months (289.2 days). For storage in a Holtec SFP rack, the decay heat from the limiting 9.0-month (273.9 days) decay spent fuel bundle results in a fuel temperature after 10 hours less than the 900°C requirement in ISG-02 (Reference 2.1) for all initial temperatures. For lower initial temperatures of 95°F, 90°F, and 85°F the limiting decay time is 8.75 months (266.3 days).

Therefore, the 10-hour heat-up time from the assumed SFP temperatures of 85°F, 90°F, 95°F, and 120°F to a “runaway oxidation” (zirconium fire) temperature of 900°C (1652°F) occurs at a decay time less than 9.75 months (296.8 days) after shutdown. Based on the results of this analysis, Emergency Planning (EP) staffing could potentially be reduced 9.75 months after shutdown.

While the final calculated temperature is close to the 900°C requirement in ISG-02 (Reference 2.1), the following conservatisms remain. The largest conservatisms are the adiabatic

assumption (Assumption 5.2) and the start of the heat-up after the bundle has become fully uncovered (Assumption 5.1). Both assumptions eliminate other mechanisms in which decay heat would be transferred away from the fuel bundle either by convective heat transfer or by the boiling of SFP water.

The mass of the channel box and SFP rack used for radiative heat transfer are also conservative. For the channel box and SFP rack, only the active fuel length was considered, whereas the channel box and SFP rack extend above and below the active fuel region. While some non-conservative implicit assumptions are made, namely that no oxidation is assumed to occur below 900°C, this methodology is considered reasonable, as discussed in Section 4 of ISG-02 (Reference 2.1).

**Heat-up Time Calculation 9.75 months after Shutdown,
 120F Initial Temperature, PaR SFP Rack**

Attachment 1

	A	B	C	D	E	F
1	Decay Heat (9.75 months)	1.175E+04	W/MTU			
2	Decay Heat	7476.97	BTU/Hr/Assembly			
3	Mass UO2	463.54	lbm			
4	Mass Clad	94.03	lbm			
5	Mass Upper Plenum	9.5	lbm			
6	Mass Lower Plenum	17.45	lbm			
7	Mass Channel Box	45.2	lbm			
8	Mass Rack	22.80	lbm			
9	Upper Plenum Length	1.562	ft			
10	Lower Plenum Length	0.620	ft			
11	UP/Fuel Surface Area	0.0160	ft^2			
12	LP/Fuel Surface Area	0.0188	ft^2			
13	Stefan-Boltzman	1.71E-09	BTU/hr-ft^2-R^4			
14	Emmisivity	0.4				
15	Radiation Surface Area	22.0125	ft^2			
16	Starting Temp	120	F	322.038889	K	
17	10 hour temp	1639.99	F	893.33	C	
18	Rack Melt Time	6.01	hr	833.00	K	
19		Equations (for row 24)	x=C23+Q23	x=D23+M23	X=E23+N23	X=F23+O23
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
23	0	0.005	120	120	120	120
24	0.005	0.005	121.12	120.00	120.00	120.00
25	0.01	0.005	122.23	120.00	120.00	120.02
26	0.015	0.005	123.34	120.00	120.00	120.06
27	0.02	0.005	124.45	120.00	120.01	120.12
28	0.025	0.005	125.55	120.01	120.01	120.21
29	0.03	0.005	126.65	120.01	120.02	120.31
30	0.035	0.005	127.75	120.01	120.02	120.42
31	0.04	0.005	128.85	120.02	120.03	120.56
32	0.045	0.005	129.94	120.02	120.04	120.71
33	0.05	0.005	131.03	120.03	120.05	120.88
34	0.055	0.005	132.12	120.04	120.06	121.06
35	0.06	0.005	133.21	120.04	120.07	121.26
36	0.065	0.005	134.29	120.05	120.08	121.47

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
37	0.07	0.005	135.37	120.06	120.10	121.70
38	0.075	0.005	136.45	120.07	120.11	121.94
39	0.08	0.005	137.52	120.08	120.13	122.19
40	0.085	0.005	138.60	120.09	120.14	122.46
41	0.09	0.005	139.67	120.10	120.16	122.74
42	0.095	0.005	140.74	120.11	120.18	123.03
43	0.1	0.005	141.80	120.12	120.20	123.34
44	0.105	0.005	142.87	120.14	120.22	123.65
45	0.11	0.005	143.93	120.15	120.24	123.98
46	0.115	0.005	144.99	120.16	120.26	124.31
47	0.12	0.005	146.05	120.18	120.29	124.66
48	0.125	0.005	147.10	120.19	120.31	125.02
49	0.13	0.005	148.16	120.21	120.34	125.39
50	0.135	0.005	149.21	120.23	120.36	125.76
51	0.14	0.005	150.25	120.24	120.39	126.15
52	0.145	0.005	151.30	120.26	120.42	126.55
53	0.15	0.005	152.35	120.28	120.45	126.95
54	0.155	0.005	153.39	120.30	120.48	127.36
55	0.16	0.005	154.43	120.32	120.51	127.78
56	0.165	0.005	155.47	120.34	120.54	128.21
57	0.17	0.005	156.50	120.36	120.58	128.65
58	0.175	0.005	157.54	120.38	120.61	129.10
59	0.18	0.005	158.57	120.40	120.65	129.55
60	0.185	0.005	159.60	120.43	120.68	130.01
61	0.19	0.005	160.62	120.45	120.72	130.48
62	0.195	0.005	161.65	120.47	120.76	130.95
63	0.2	0.005	162.67	120.50	120.80	131.43
64	0.205	0.005	163.70	120.52	120.84	131.92
65	0.21	0.005	164.72	120.55	120.88	132.41
66	0.215	0.005	165.73	120.57	120.92	132.91
67	0.22	0.005	166.75	120.60	120.96	133.42
68	0.225	0.005	167.76	120.63	121.01	133.93
69	0.23	0.005	168.78	120.66	121.05	134.45
70	0.235	0.005	169.79	120.69	121.10	134.98
71	0.24	0.005	170.80	120.71	121.14	135.51
72	0.245	0.005	171.80	120.74	121.19	136.04
73	0.25	0.005	172.81	120.77	121.24	136.58
74	0.255	0.005	173.81	120.81	121.29	137.13
75	0.26	0.005	174.81	120.84	121.34	137.68
76	0.265	0.005	175.81	120.87	121.39	138.23
77	0.27	0.005	176.81	120.90	121.44	138.80

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
78	0.275	0.005	177.80	120.93	121.49	139.36
79	0.28	0.005	178.80	120.97	121.55	139.93
80	0.285	0.005	179.79	121.00	121.60	140.51
81	0.29	0.005	180.78	121.04	121.66	141.09
82	0.295	0.005	181.77	121.07	121.71	141.67
83	0.3	0.005	182.75	121.11	121.77	142.26
84	0.305	0.005	183.74	121.15	121.83	142.85
85	0.31	0.005	184.72	121.18	121.89	143.45
86	0.315	0.005	185.70	121.22	121.95	144.05
87	0.32	0.005	186.68	121.26	122.01	144.66
88	0.325	0.005	187.66	121.30	122.07	145.27
89	0.33	0.005	188.64	121.34	122.13	145.88
90	0.335	0.005	189.61	121.38	122.20	146.50
91	0.34	0.005	190.59	121.42	122.26	147.12
92	0.345	0.005	191.56	121.46	122.33	147.74
93	0.35	0.005	192.53	121.50	122.39	148.37
94	0.355	0.005	193.50	121.54	122.46	149.00
95	0.36	0.005	194.46	121.59	122.53	149.64
96	0.365	0.005	195.43	121.63	122.60	150.27
97	0.37	0.005	196.39	121.67	122.67	150.92
98	0.375	0.005	197.35	121.72	122.74	151.56
99	0.38	0.005	198.31	121.76	122.81	152.21
100	0.385	0.005	199.27	121.81	122.88	152.86
101	0.39	0.005	200.23	121.85	122.95	153.51
102	0.395	0.005	201.19	121.90	123.03	154.17
103	0.4	0.005	202.14	121.95	123.10	154.83
104	0.405	0.005	203.09	121.99	123.18	155.50
105	0.41	0.005	204.04	122.04	123.25	156.16
106	0.415	0.005	204.99	122.09	123.33	156.83
107	0.42	0.005	205.94	122.14	123.41	157.50
108	0.425	0.005	206.89	122.19	123.49	158.18
109	0.43	0.005	207.83	122.24	123.57	158.86
110	0.435	0.005	208.77	122.29	123.65	159.54
111	0.44	0.005	209.71	122.34	123.73	160.22
112	0.445	0.005	210.65	122.39	123.81	160.91
113	0.45	0.005	211.59	122.45	123.89	161.59
114	0.455	0.005	212.53	122.50	123.98	162.29
115	0.46	0.005	213.47	122.55	124.06	162.98
116	0.465	0.005	214.40	122.61	124.15	163.67
117	0.47	0.005	215.33	122.66	124.23	164.37
118	0.475	0.005	216.26	122.72	124.32	165.07

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
119	0.48	0.005	217.19	122.77	124.41	165.78
120	0.485	0.005	218.12	122.83	124.50	166.48
121	0.49	0.005	219.05	122.89	124.59	167.19
122	0.495	0.005	219.97	122.94	124.68	167.90
123	0.5	0.005	220.90	123.00	124.77	168.61
124	0.505	0.005	221.82	123.06	124.86	169.33
125	0.51	0.005	222.74	123.12	124.95	170.04
126	0.515	0.005	223.66	123.18	125.04	170.76
127	0.52	0.005	224.58	123.24	125.14	171.48
128	0.525	0.005	225.50	123.30	125.23	172.21
129	0.53	0.005	226.41	123.36	125.33	172.93
130	0.535	0.005	227.33	123.42	125.43	173.66
131	0.54	0.005	228.24	123.48	125.52	174.39
132	0.545	0.005	229.15	123.54	125.62	175.12
133	0.55	0.005	230.06	123.60	125.72	175.85
134	0.555	0.005	230.97	123.67	125.82	176.59
135	0.56	0.005	231.88	123.73	125.92	177.32
136	0.565	0.005	232.78	123.80	126.02	178.06
137	0.57	0.005	233.69	123.86	126.12	178.80
138	0.575	0.005	234.59	123.93	126.23	179.54
139	0.58	0.005	235.49	123.99	126.33	180.29
140	0.585	0.005	236.39	124.06	126.43	181.03
141	0.59	0.005	237.29	124.12	126.54	181.78
142	0.595	0.005	238.19	124.19	126.64	182.53
143	0.6	0.005	239.09	124.26	126.75	183.28
144	0.605	0.005	239.98	124.33	126.86	184.04
145	0.61	0.005	240.88	124.40	126.97	184.79
146	0.615	0.005	241.77	124.47	127.08	185.55
147	0.62	0.005	242.66	124.54	127.19	186.31
148	0.625	0.005	243.55	124.61	127.30	187.07
149	0.63	0.005	244.44	124.68	127.41	187.83
150	0.635	0.005	245.33	124.75	127.52	188.59
151	0.64	0.005	246.21	124.82	127.63	189.35
152	0.645	0.005	247.10	124.89	127.74	190.12
153	0.65	0.005	247.98	124.96	127.86	190.89
154	0.655	0.005	248.87	125.04	127.97	191.66
155	0.66	0.005	249.75	125.11	128.09	192.43
156	0.665	0.005	250.63	125.18	128.21	193.20
157	0.67	0.005	251.51	125.26	128.32	193.97
158	0.675	0.005	252.38	125.33	128.44	194.75
159	0.68	0.005	253.26	125.41	128.56	195.53

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
160	0.685	0.005	254.14	125.49	128.68	196.30
161	0.69	0.005	255.01	125.56	128.80	197.08
162	0.695	0.005	255.88	125.64	128.92	197.86
163	0.7	0.005	256.76	125.72	129.04	198.65
164	0.705	0.005	257.63	125.79	129.16	199.43
165	0.71	0.005	258.50	125.87	129.28	200.22
166	0.715	0.005	259.36	125.95	129.41	201.00
167	0.72	0.005	260.23	126.03	129.53	201.79
168	0.725	0.005	261.10	126.11	129.66	202.58
169	0.73	0.005	261.96	126.19	129.78	203.37
170	0.735	0.005	262.83	126.27	129.91	204.16
171	0.74	0.005	263.69	126.35	130.04	204.95
172	0.745	0.005	264.55	126.43	130.16	205.75
173	0.75	0.005	265.41	126.52	130.29	206.54
174	0.755	0.005	266.27	126.60	130.42	207.34
175	0.76	0.005	267.13	126.68	130.55	208.14
176	0.765	0.005	267.99	126.77	130.68	208.94
177	0.77	0.005	268.84	126.85	130.81	209.74
178	0.775	0.005	269.70	126.93	130.95	210.54
179	0.78	0.005	270.55	127.02	131.08	211.34
180	0.785	0.005	271.41	127.10	131.21	212.15
181	0.79	0.005	272.26	127.19	131.35	212.95
182	0.795	0.005	273.11	127.28	131.48	213.76
183	0.8	0.005	273.96	127.36	131.62	214.56
184	0.805	0.005	274.81	127.45	131.75	215.37
185	0.81	0.005	275.66	127.54	131.89	216.18
186	0.815	0.005	276.50	127.63	132.03	216.99
187	0.82	0.005	277.35	127.71	132.16	217.81
188	0.825	0.005	278.19	127.80	132.30	218.62
189	0.83	0.005	279.04	127.89	132.44	219.43
190	0.835	0.005	279.88	127.98	132.58	220.25
191	0.84	0.005	280.72	128.07	132.72	221.06
192	0.845	0.005	281.56	128.16	132.86	221.88
193	0.85	0.005	282.40	128.25	133.01	222.70
194	0.855	0.005	283.24	128.35	133.15	223.52
195	0.86	0.005	284.08	128.44	133.29	224.34
196	0.865	0.005	284.92	128.53	133.44	225.16
197	0.87	0.005	285.75	128.62	133.58	225.98
198	0.875	0.005	286.59	128.72	133.73	226.81
199	0.88	0.005	287.42	128.81	133.87	227.63
200	0.885	0.005	288.25	128.91	134.02	228.46

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
201	0.89	0.005	289.09	129.00	134.17	229.29
202	0.895	0.005	289.92	129.10	134.32	230.11
203	0.9	0.005	290.75	129.19	134.47	230.94
204	0.905	0.005	291.58	129.29	134.62	231.77
205	0.91	0.005	292.41	129.38	134.77	232.60
206	0.915	0.005	293.23	129.48	134.92	233.43
207	0.92	0.005	294.06	129.58	135.07	234.27
208	0.925	0.005	294.89	129.68	135.22	235.10
209	0.93	0.005	295.71	129.77	135.37	235.93
210	0.935	0.005	296.54	129.87	135.53	236.77
211	0.94	0.005	297.36	129.97	135.68	237.60
212	0.945	0.005	298.18	130.07	135.84	238.44
213	0.95	0.005	299.00	130.17	135.99	239.28
214	0.955	0.005	299.82	130.27	136.15	240.12
215	0.96	0.005	300.64	130.37	136.30	240.96
216	0.965	0.005	301.46	130.47	136.46	241.80
217	0.97	0.005	302.28	130.58	136.62	242.64
218	0.975	0.005	303.10	130.68	136.78	243.48
219	0.98	0.005	303.91	130.78	136.94	244.33
220	0.985	0.005	304.73	130.88	137.10	245.17
221	0.99	0.005	305.54	130.99	137.26	246.01
222	0.995	0.005	306.36	131.09	137.42	246.86
223	1	0.005	307.17	131.20	137.58	247.71
224	1.005	0.005	307.98	131.30	137.74	248.55
225	1.01	0.005	308.79	131.40	137.90	249.40
226	1.015	0.005	309.60	131.51	138.07	250.25
227	1.02	0.005	310.41	131.62	138.23	251.10
228	1.025	0.005	311.22	131.72	138.40	251.95
229	1.03	0.005	312.03	131.83	138.56	252.80
230	1.035	0.005	312.84	131.94	138.73	253.65
231	1.04	0.005	313.65	132.04	138.90	254.51
232	1.045	0.005	314.45	132.15	139.06	255.36
233	1.05	0.005	315.26	132.26	139.23	256.21
234	1.055	0.005	316.06	132.37	139.40	257.07
235	1.06	0.005	316.87	132.48	139.57	257.93
236	1.065	0.005	317.67	132.59	139.74	258.78
237	1.07	0.005	318.47	132.70	139.91	259.64
238	1.075	0.005	319.27	132.81	140.08	260.50
239	1.08	0.005	320.07	132.92	140.25	261.36
240	1.085	0.005	320.87	133.03	140.42	262.22
241	1.09	0.005	321.67	133.14	140.60	263.08

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
242	1.095	0.005	322.47	133.26	140.77	263.94
243	1.1	0.005	323.27	133.37	140.94	264.80
244	1.105	0.005	324.07	133.48	141.12	265.66
245	1.11	0.005	324.86	133.59	141.29	266.52
246	1.115	0.005	325.66	133.71	141.47	267.39
247	1.12	0.005	326.46	133.82	141.65	268.25
248	1.125	0.005	327.25	133.94	141.82	269.12
249	1.13	0.005	328.04	134.05	142.00	269.99
250	1.135	0.005	328.84	134.17	142.18	270.85
251	1.14	0.005	329.63	134.28	142.36	271.72
252	1.145	0.005	330.42	134.40	142.54	272.59
253	1.15	0.005	331.21	134.52	142.72	273.46
254	1.155	0.005	332.01	134.63	142.90	274.33
255	1.16	0.005	332.80	134.75	143.08	275.20
256	1.165	0.005	333.59	134.87	143.26	276.07
257	1.17	0.005	334.37	134.99	143.44	276.94
258	1.175	0.005	335.16	135.11	143.63	277.81
259	1.18	0.005	335.95	135.23	143.81	278.68
260	1.185	0.005	336.74	135.34	143.99	279.56
261	1.19	0.005	337.52	135.46	144.18	280.43
262	1.195	0.005	338.31	135.59	144.36	281.31
263	1.2	0.005	339.10	135.71	144.55	282.18
264	1.205	0.005	339.88	135.83	144.74	283.06
265	1.21	0.005	340.67	135.95	144.92	283.93
266	1.215	0.005	341.45	136.07	145.11	284.81
267	1.22	0.005	342.23	136.19	145.30	285.69
268	1.225	0.005	343.02	136.32	145.49	286.56
269	1.23	0.005	343.80	136.44	145.68	287.44
270	1.235	0.005	344.58	136.56	145.87	288.32
271	1.24	0.005	345.36	136.69	146.06	289.20
272	1.245	0.005	346.14	136.81	146.25	290.08
273	1.25	0.005	346.92	136.93	146.44	290.96
274	1.255	0.005	347.70	137.06	146.63	291.84
275	1.26	0.005	348.48	137.19	146.83	292.72
276	1.265	0.005	349.26	137.31	147.02	293.60
277	1.27	0.005	350.04	137.44	147.21	294.48
278	1.275	0.005	350.81	137.56	147.41	295.37
279	1.28	0.005	351.59	137.69	147.60	296.25
280	1.285	0.005	352.37	137.82	147.80	297.13
281	1.29	0.005	353.14	137.95	147.99	298.02
282	1.295	0.005	353.92	138.07	148.19	298.90

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
283	1.3	0.005	354.69	138.20	148.39	299.79
284	1.305	0.005	355.47	138.33	148.59	300.67
285	1.31	0.005	356.24	138.46	148.78	301.56
286	1.315	0.005	357.02	138.59	148.98	302.44
287	1.32	0.005	357.79	138.72	149.18	303.33
288	1.325	0.005	358.56	138.85	149.38	304.21
289	1.33	0.005	359.34	138.98	149.58	305.10
290	1.335	0.005	360.11	139.11	149.79	305.99
291	1.34	0.005	360.88	139.25	149.99	306.88
292	1.345	0.005	361.65	139.38	150.19	307.76
293	1.35	0.005	362.42	139.51	150.39	308.65
294	1.355	0.005	363.19	139.64	150.60	309.54
295	1.36	0.005	363.96	139.78	150.80	310.43
296	1.365	0.005	364.73	139.91	151.00	311.32
297	1.37	0.005	365.50	140.04	151.21	312.21
298	1.375	0.005	366.27	140.18	151.42	313.10
299	1.38	0.005	367.04	140.31	151.62	313.99
300	1.385	0.005	367.81	140.45	151.83	314.88
301	1.39	0.005	368.57	140.58	152.04	315.77
302	1.395	0.005	369.34	140.72	152.24	316.66
303	1.4	0.005	370.11	140.86	152.45	317.55
304	1.405	0.005	370.88	140.99	152.66	318.44
305	1.41	0.005	371.64	141.13	152.87	319.33
306	1.415	0.005	372.41	141.27	153.08	320.22
307	1.42	0.005	373.17	141.40	153.29	321.12
308	1.425	0.005	373.94	141.54	153.50	322.01
309	1.43	0.005	374.70	141.68	153.71	322.90
310	1.435	0.005	375.47	141.82	153.93	323.79
311	1.44	0.005	376.23	141.96	154.14	324.69
312	1.445	0.005	377.00	142.10	154.35	325.58
313	1.45	0.005	377.76	142.24	154.56	326.47
314	1.455	0.005	378.52	142.38	154.78	327.36
315	1.46	0.005	379.29	142.52	154.99	328.26
316	1.465	0.005	380.05	142.66	155.21	329.15
317	1.47	0.005	380.81	142.80	155.43	330.05
318	1.475	0.005	381.58	142.94	155.64	330.94
319	1.48	0.005	382.34	143.09	155.86	331.83
320	1.485	0.005	383.10	143.23	156.08	332.73
321	1.49	0.005	383.86	143.37	156.29	333.62
322	1.495	0.005	384.62	143.52	156.51	334.52
323	1.5	0.005	385.38	143.66	156.73	335.41

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
324	1.505	0.005	386.14	143.80	156.95	336.30
325	1.51	0.005	386.90	143.95	157.17	337.20
326	1.515	0.005	387.66	144.09	157.39	338.09
327	1.52	0.005	388.42	144.24	157.61	338.99
328	1.525	0.005	389.18	144.38	157.84	339.88
329	1.53	0.005	389.94	144.53	158.06	340.78
330	1.535	0.005	390.70	144.68	158.28	341.67
331	1.54	0.005	391.46	144.82	158.50	342.57
332	1.545	0.005	392.22	144.97	158.73	343.46
333	1.55	0.005	392.98	145.12	158.95	344.36
334	1.555	0.005	393.74	145.26	159.18	345.25
335	1.56	0.005	394.49	145.41	159.40	346.15
336	1.565	0.005	395.25	145.56	159.63	347.04
337	1.57	0.005	396.01	145.71	159.85	347.94
338	1.575	0.005	396.77	145.86	160.08	348.83
339	1.58	0.005	397.52	146.01	160.31	349.73
340	1.585	0.005	398.28	146.16	160.54	350.62
341	1.59	0.005	399.04	146.31	160.77	351.52
342	1.595	0.005	399.79	146.46	160.99	352.41
343	1.6	0.005	400.55	146.61	161.22	353.31
344	1.605	0.005	401.31	146.76	161.45	354.20
345	1.61	0.005	402.06	146.91	161.68	355.10
346	1.615	0.005	402.82	147.07	161.92	355.99
347	1.62	0.005	403.57	147.22	162.15	356.88
348	1.625	0.005	404.33	147.37	162.38	357.78
349	1.63	0.005	405.09	147.53	162.61	358.67
350	1.635	0.005	405.84	147.68	162.84	359.57
351	1.64	0.005	406.60	147.83	163.08	360.46
352	1.645	0.005	407.35	147.99	163.31	361.36
353	1.65	0.005	408.10	148.14	163.55	362.25
354	1.655	0.005	408.86	148.30	163.78	363.14
355	1.66	0.005	409.61	148.45	164.02	364.04
356	1.665	0.005	410.37	148.61	164.25	364.93
357	1.67	0.005	411.12	148.77	164.49	365.82
358	1.675	0.005	411.88	148.92	164.73	366.72
359	1.68	0.005	412.63	149.08	164.97	367.61
360	1.685	0.005	413.38	149.24	165.20	368.50
361	1.69	0.005	414.14	149.39	165.44	369.40
362	1.695	0.005	414.89	149.55	165.68	370.29
363	1.7	0.005	415.64	149.71	165.92	371.18
364	1.705	0.005	416.40	149.87	166.16	372.07

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
365	1.71	0.005	417.15	150.03	166.40	372.97
366	1.715	0.005	417.90	150.19	166.64	373.86
367	1.72	0.005	418.66	150.35	166.89	374.75
368	1.725	0.005	419.41	150.51	167.13	375.64
369	1.73	0.005	420.16	150.67	167.37	376.53
370	1.735	0.005	420.92	150.83	167.61	377.42
371	1.74	0.005	421.67	150.99	167.86	378.31
372	1.745	0.005	422.42	151.15	168.10	379.21
373	1.75	0.005	423.17	151.31	168.35	380.10
374	1.755	0.005	423.93	151.48	168.59	380.99
375	1.76	0.005	424.68	151.64	168.84	381.88
376	1.765	0.005	425.43	151.80	169.08	382.77
377	1.77	0.005	426.18	151.97	169.33	383.65
378	1.775	0.005	426.93	152.13	169.58	384.54
379	1.78	0.005	427.69	152.29	169.83	385.43
380	1.785	0.005	428.44	152.46	170.07	386.32
381	1.79	0.005	429.19	152.62	170.32	387.21
382	1.795	0.005	429.94	152.79	170.57	388.10
383	1.8	0.005	430.69	152.95	170.82	388.99
384	1.805	0.005	431.44	153.12	171.07	389.87
385	1.81	0.005	432.19	153.28	171.32	390.76
386	1.815	0.005	432.95	153.45	171.57	391.65
387	1.82	0.005	433.70	153.62	171.83	392.53
388	1.825	0.005	434.45	153.79	172.08	393.42
389	1.83	0.005	435.20	153.95	172.33	394.31
390	1.835	0.005	435.95	154.12	172.58	395.19
391	1.84	0.005	436.70	154.29	172.84	396.08
392	1.845	0.005	437.45	154.46	173.09	396.96
393	1.85	0.005	438.20	154.63	173.35	397.85
394	1.855	0.005	438.96	154.80	173.60	398.73
395	1.86	0.005	439.71	154.97	173.86	399.62
396	1.865	0.005	440.46	155.14	174.11	400.50
397	1.87	0.005	441.21	155.31	174.37	401.38
398	1.875	0.005	441.96	155.48	174.63	402.27
399	1.88	0.005	442.71	155.65	174.88	403.15
400	1.885	0.005	443.46	155.82	175.14	404.03
401	1.89	0.005	444.21	155.99	175.40	404.91
402	1.895	0.005	444.96	156.16	175.66	405.80
403	1.9	0.005	445.71	156.34	175.92	406.68
404	1.905	0.005	446.46	156.51	176.18	407.56
405	1.91	0.005	447.21	156.68	176.44	408.44

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
406	1.915	0.005	447.96	156.86	176.70	409.32
407	1.92	0.005	448.71	157.03	176.96	410.20
408	1.925	0.005	449.46	157.21	177.22	411.08
409	1.93	0.005	450.21	157.38	177.49	411.96
410	1.935	0.005	450.96	157.55	177.75	412.84
411	1.94	0.005	451.72	157.73	178.01	413.72
412	1.945	0.005	452.47	157.91	178.28	414.59
413	1.95	0.005	453.22	158.08	178.54	415.47
414	1.955	0.005	453.97	158.26	178.80	416.35
415	1.96	0.005	454.72	158.44	179.07	417.22
416	1.965	0.005	455.47	158.61	179.34	418.10
417	1.97	0.005	456.22	158.79	179.60	418.98
418	1.975	0.005	456.97	158.97	179.87	419.85
419	1.98	0.005	457.72	159.15	180.14	420.73
420	1.985	0.005	458.47	159.32	180.40	421.60
421	1.99	0.005	459.22	159.50	180.67	422.48
422	1.995	0.005	459.97	159.68	180.94	423.35
423	2	0.005	460.72	159.86	181.21	424.22
424	2.005	0.005	461.47	160.04	181.48	425.10
425	2.01	0.005	462.22	160.22	181.75	425.97
426	2.015	0.005	462.97	160.40	182.02	426.84
427	2.02	0.005	463.72	160.58	182.29	427.71
428	2.025	0.005	464.47	160.76	182.56	428.59
429	2.03	0.005	465.22	160.95	182.83	429.46
430	2.035	0.005	465.97	161.13	183.11	430.33
431	2.04	0.005	466.72	161.31	183.38	431.20
432	2.045	0.005	467.47	161.49	183.65	432.07
433	2.05	0.005	468.22	161.68	183.93	432.94
434	2.055	0.005	468.97	161.86	184.20	433.81
435	2.06	0.005	469.72	162.04	184.47	434.67
436	2.065	0.005	470.47	162.23	184.75	435.54
437	2.07	0.005	471.22	162.41	185.03	436.41
438	2.075	0.005	471.97	162.60	185.30	437.28
439	2.08	0.005	472.72	162.78	185.58	438.14
440	2.085	0.005	473.47	162.97	185.86	439.01
441	2.09	0.005	474.22	163.15	186.13	439.88
442	2.095	0.005	474.97	163.34	186.41	440.74
443	2.1	0.005	475.72	163.53	186.69	441.61
444	2.105	0.005	476.47	163.71	186.97	442.47
445	2.11	0.005	477.22	163.90	187.25	443.34
446	2.115	0.005	477.97	164.09	187.53	444.20

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
447	2.12	0.005	478.72	164.27	187.81	445.06
448	2.125	0.005	479.47	164.46	188.09	445.93
449	2.13	0.005	480.22	164.65	188.37	446.79
450	2.135	0.005	480.97	164.84	188.65	447.65
451	2.14	0.005	481.72	165.03	188.93	448.51
452	2.145	0.005	482.47	165.22	189.22	449.37
453	2.15	0.005	483.22	165.41	189.50	450.23
454	2.155	0.005	483.97	165.60	189.78	451.09
455	2.16	0.005	484.72	165.79	190.07	451.95
456	2.165	0.005	485.47	165.98	190.35	452.81
457	2.17	0.005	486.22	166.17	190.64	453.67
458	2.175	0.005	486.97	166.36	190.92	454.53
459	2.18	0.005	487.72	166.55	191.21	455.39
460	2.185	0.005	488.47	166.75	191.50	456.24
461	2.19	0.005	489.22	166.94	191.78	457.10
462	2.195	0.005	489.97	167.13	192.07	457.96
463	2.2	0.005	490.72	167.33	192.36	458.81
464	2.205	0.005	491.47	167.52	192.65	459.67
465	2.21	0.005	492.23	167.71	192.93	460.52
466	2.215	0.005	492.98	167.91	193.22	461.38
467	2.22	0.005	493.73	168.10	193.51	462.23
468	2.225	0.005	494.48	168.30	193.80	463.09
469	2.23	0.005	495.23	168.49	194.09	463.94
470	2.235	0.005	495.98	168.69	194.38	464.79
471	2.24	0.005	496.73	168.88	194.68	465.65
472	2.245	0.005	497.48	169.08	194.97	466.50
473	2.25	0.005	498.23	169.28	195.26	467.35
474	2.255	0.005	498.98	169.47	195.55	468.20
475	2.26	0.005	499.73	169.67	195.85	469.05
476	2.265	0.005	500.48	169.87	196.14	469.90
477	2.27	0.005	501.23	170.07	196.43	470.75
478	2.275	0.005	501.98	170.27	196.73	471.60
479	2.28	0.005	502.73	170.46	197.02	472.45
480	2.285	0.005	503.48	170.66	197.32	473.30
481	2.29	0.005	504.23	170.86	197.62	474.15
482	2.295	0.005	504.98	171.06	197.91	475.00
483	2.3	0.005	505.73	171.26	198.21	475.84
484	2.305	0.005	506.48	171.46	198.51	476.69
485	2.31	0.005	507.23	171.66	198.80	477.54
486	2.315	0.005	507.98	171.86	199.10	478.38
487	2.32	0.005	508.73	172.07	199.40	479.23

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
488	2.325	0.005	509.48	172.27	199.70	480.07
489	2.33	0.005	510.23	172.47	200.00	480.92
490	2.335	0.005	510.98	172.67	200.30	481.76
491	2.34	0.005	511.73	172.87	200.60	482.60
492	2.345	0.005	512.48	173.08	200.90	483.45
493	2.35	0.005	513.23	173.28	201.20	484.29
494	2.355	0.005	513.98	173.48	201.50	485.13
495	2.36	0.005	514.73	173.69	201.81	485.98
496	2.365	0.005	515.49	173.89	202.11	486.82
497	2.37	0.005	516.24	174.10	202.41	487.66
498	2.375	0.005	516.99	174.30	202.72	488.50
499	2.38	0.005	517.74	174.51	203.02	489.34
500	2.385	0.005	518.49	174.71	203.33	490.18
501	2.39	0.005	519.24	174.92	203.63	491.02
502	2.395	0.005	519.99	175.13	203.94	491.86
503	2.4	0.005	520.74	175.33	204.24	492.70
504	2.405	0.005	521.49	175.54	204.55	493.53
505	2.41	0.005	522.24	175.75	204.85	494.37
506	2.415	0.005	522.99	175.95	205.16	495.21
507	2.42	0.005	523.74	176.16	205.47	496.05
508	2.425	0.005	524.49	176.37	205.78	496.88
509	2.43	0.005	525.24	176.58	206.09	497.72
510	2.435	0.005	525.99	176.79	206.39	498.55
511	2.44	0.005	526.74	177.00	206.70	499.39
512	2.445	0.005	527.49	177.21	207.01	500.22
513	2.45	0.005	528.24	177.42	207.32	501.06
514	2.455	0.005	528.99	177.63	207.63	501.89
515	2.46	0.005	529.74	177.84	207.95	502.73
516	2.465	0.005	530.49	178.05	208.26	503.56
517	2.47	0.005	531.24	178.26	208.57	504.39
518	2.475	0.005	531.99	178.47	208.88	505.23
519	2.48	0.005	532.74	178.69	209.20	506.06
520	2.485	0.005	533.49	178.90	209.51	506.89
521	2.49	0.005	534.24	179.11	209.82	507.72
522	2.495	0.005	534.99	179.32	210.14	508.55
523	2.5	0.005	535.74	179.54	210.45	509.38
524	2.505	0.005	536.49	179.75	210.77	510.21
525	2.51	0.005	537.24	179.96	211.08	511.04
526	2.515	0.005	537.99	180.18	211.40	511.87
527	2.52	0.005	538.74	180.39	211.71	512.70
528	2.525	0.005	539.49	180.61	212.03	513.53

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
529	2.53	0.005	540.24	180.82	212.35	514.36
530	2.535	0.005	540.99	181.04	212.67	515.19
531	2.54	0.005	541.75	181.26	212.98	516.01
532	2.545	0.005	542.50	181.47	213.30	516.84
533	2.55	0.005	543.25	181.69	213.62	517.67
534	2.555	0.005	544.00	181.90	213.94	518.49
535	2.56	0.005	544.75	182.12	214.26	519.32
536	2.565	0.005	545.50	182.34	214.58	520.14
537	2.57	0.005	546.25	182.56	214.90	520.97
538	2.575	0.005	547.00	182.78	215.22	521.79
539	2.58	0.005	547.75	182.99	215.54	522.62
540	2.585	0.005	548.50	183.21	215.87	523.44
541	2.59	0.005	549.25	183.43	216.19	524.27
542	2.595	0.005	550.00	183.65	216.51	525.09
543	2.6	0.005	550.75	183.87	216.84	525.91
544	2.605	0.005	551.50	184.09	217.16	526.73
545	2.61	0.005	552.25	184.31	217.48	527.56
546	2.615	0.005	553.00	184.53	217.81	528.38
547	2.62	0.005	553.74	184.75	218.13	529.20
548	2.625	0.005	554.49	184.98	218.46	530.02
549	2.63	0.005	555.24	185.20	218.78	530.84
550	2.635	0.005	555.99	185.42	219.11	531.66
551	2.64	0.005	556.74	185.64	219.44	532.48
552	2.645	0.005	557.49	185.87	219.76	533.30
553	2.65	0.005	558.24	186.09	220.09	534.12
554	2.655	0.005	558.99	186.31	220.42	534.94
555	2.66	0.005	559.74	186.54	220.75	535.76
556	2.665	0.005	560.49	186.76	221.08	536.58
557	2.67	0.005	561.24	186.98	221.41	537.40
558	2.675	0.005	561.99	187.21	221.74	538.21
559	2.68	0.005	562.74	187.43	222.07	539.03
560	2.685	0.005	563.49	187.66	222.40	539.85
561	2.69	0.005	564.24	187.89	222.73	540.66
562	2.695	0.005	564.99	188.11	223.06	541.48
563	2.7	0.005	565.74	188.34	223.39	542.30
564	2.705	0.005	566.49	188.56	223.72	543.11
565	2.71	0.005	567.24	188.79	224.06	543.93
566	2.715	0.005	567.99	189.02	224.39	544.74
567	2.72	0.005	568.74	189.25	224.72	545.56
568	2.725	0.005	569.49	189.47	225.06	546.37
569	2.73	0.005	570.24	189.70	225.39	547.19

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
570	2.735	0.005	570.98	189.93	225.73	548.00
571	2.74	0.005	571.73	190.16	226.06	548.81
572	2.745	0.005	572.48	190.39	226.40	549.63
573	2.75	0.005	573.23	190.62	226.73	550.44
574	2.755	0.005	573.98	190.85	227.07	551.25
575	2.76	0.005	574.73	191.08	227.41	552.06
576	2.765	0.005	575.48	191.31	227.74	552.87
577	2.77	0.005	576.23	191.54	228.08	553.69
578	2.775	0.005	576.98	191.77	228.42	554.50
579	2.78	0.005	577.73	192.00	228.76	555.31
580	2.785	0.005	578.48	192.24	229.10	556.12
581	2.79	0.005	579.22	192.47	229.44	556.93
582	2.795	0.005	579.97	192.70	229.78	557.74
583	2.8	0.005	580.72	192.93	230.12	558.55
584	2.805	0.005	581.47	193.17	230.46	559.36
585	2.81	0.005	582.22	193.40	230.80	560.17
586	2.815	0.005	582.97	193.63	231.14	560.98
587	2.82	0.005	583.72	193.87	231.48	561.78
588	2.825	0.005	584.47	194.10	231.82	562.59
589	2.83	0.005	585.21	194.34	232.17	563.40
590	2.835	0.005	585.96	194.57	232.51	564.21
591	2.84	0.005	586.71	194.81	232.85	565.01
592	2.845	0.005	587.46	195.04	233.20	565.82
593	2.85	0.005	588.21	195.28	233.54	566.63
594	2.855	0.005	588.96	195.51	233.88	567.43
595	2.86	0.005	589.70	195.75	234.23	568.24
596	2.865	0.005	590.45	195.99	234.58	569.05
597	2.87	0.005	591.20	196.22	234.92	569.85
598	2.875	0.005	591.95	196.46	235.27	570.66
599	2.88	0.005	592.70	196.70	235.61	571.46
600	2.885	0.005	593.45	196.94	235.96	572.27
601	2.89	0.005	594.19	197.18	236.31	573.07
602	2.895	0.005	594.94	197.42	236.66	573.87
603	2.9	0.005	595.69	197.65	237.01	574.68
604	2.905	0.005	596.44	197.89	237.35	575.48
605	2.91	0.005	597.19	198.13	237.70	576.28
606	2.915	0.005	597.93	198.37	238.05	577.09
607	2.92	0.005	598.68	198.61	238.40	577.89
608	2.925	0.005	599.43	198.86	238.75	578.69
609	2.93	0.005	600.18	199.10	239.10	579.49
610	2.935	0.005	600.93	199.34	239.45	580.30

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
611	2.94	0.005	601.67	199.58	239.81	581.10
612	2.945	0.005	602.42	199.82	240.16	581.90
613	2.95	0.005	603.17	200.06	240.51	582.70
614	2.955	0.005	603.92	200.31	240.86	583.50
615	2.96	0.005	604.66	200.55	241.22	584.30
616	2.965	0.005	605.41	200.79	241.57	585.10
617	2.97	0.005	606.16	201.04	241.92	585.90
618	2.975	0.005	606.91	201.28	242.28	586.70
619	2.98	0.005	607.65	201.52	242.63	587.50
620	2.985	0.005	608.40	201.77	242.99	588.30
621	2.99	0.005	609.15	202.01	243.34	589.10
622	2.995	0.005	609.89	202.26	243.70	589.90
623	3	0.005	610.64	202.50	244.06	590.69
624	3.005	0.005	611.39	202.75	244.41	591.49
625	3.01	0.005	612.14	202.99	244.77	592.29
626	3.015	0.005	612.88	203.24	245.13	593.09
627	3.02	0.005	613.63	203.49	245.49	593.88
628	3.025	0.005	614.38	203.73	245.84	594.68
629	3.03	0.005	615.12	203.98	246.20	595.48
630	3.035	0.005	615.87	204.23	246.56	596.27
631	3.04	0.005	616.62	204.48	246.92	597.07
632	3.045	0.005	617.36	204.73	247.28	597.87
633	3.05	0.005	618.11	204.97	247.64	598.66
634	3.055	0.005	618.86	205.22	248.00	599.46
635	3.06	0.005	619.60	205.47	248.36	600.25
636	3.065	0.005	620.35	205.72	248.73	601.05
637	3.07	0.005	621.10	205.97	249.09	601.84
638	3.075	0.005	621.84	206.22	249.45	602.64
639	3.08	0.005	622.59	206.47	249.81	603.43
640	3.085	0.005	623.34	206.72	250.18	604.23
641	3.09	0.005	624.08	206.97	250.54	605.02
642	3.095	0.005	624.83	207.22	250.90	605.81
643	3.1	0.005	625.57	207.48	251.27	606.61
644	3.105	0.005	626.32	207.73	251.63	607.40
645	3.11	0.005	627.07	207.98	252.00	608.19
646	3.115	0.005	627.81	208.23	252.36	608.99
647	3.12	0.005	628.56	208.48	252.73	609.78
648	3.125	0.005	629.30	208.74	253.09	610.57
649	3.13	0.005	630.05	208.99	253.46	611.36
650	3.135	0.005	630.80	209.24	253.83	612.15
651	3.14	0.005	631.54	209.50	254.19	612.94

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
652	3.145	0.005	632.29	209.75	254.56	613.74
653	3.15	0.005	633.03	210.01	254.93	614.53
654	3.155	0.005	633.78	210.26	255.30	615.32
655	3.16	0.005	634.52	210.52	255.67	616.11
656	3.165	0.005	635.27	210.77	256.04	616.90
657	3.17	0.005	636.01	211.03	256.41	617.69
658	3.175	0.005	636.76	211.29	256.78	618.48
659	3.18	0.005	637.50	211.54	257.15	619.27
660	3.185	0.005	638.25	211.80	257.52	620.06
661	3.19	0.005	639.00	212.06	257.89	620.85
662	3.195	0.005	639.74	212.31	258.26	621.64
663	3.2	0.005	640.49	212.57	258.63	622.42
664	3.205	0.005	641.23	212.83	259.01	623.21
665	3.21	0.005	641.98	213.09	259.38	624.00
666	3.215	0.005	642.72	213.35	259.75	624.79
667	3.22	0.005	643.46	213.60	260.12	625.58
668	3.225	0.005	644.21	213.86	260.50	626.36
669	3.23	0.005	644.95	214.12	260.87	627.15
670	3.235	0.005	645.70	214.38	261.25	627.94
671	3.24	0.005	646.44	214.64	261.62	628.73
672	3.245	0.005	647.19	214.90	262.00	629.51
673	3.25	0.005	647.93	215.16	262.37	630.30
674	3.255	0.005	648.68	215.43	262.75	631.09
675	3.26	0.005	649.42	215.69	263.13	631.87
676	3.265	0.005	650.17	215.95	263.50	632.66
677	3.27	0.005	650.91	216.21	263.88	633.44
678	3.275	0.005	651.65	216.47	264.26	634.23
679	3.28	0.005	652.40	216.73	264.64	635.01
680	3.285	0.005	653.14	217.00	265.02	635.80
681	3.29	0.005	653.89	217.26	265.39	636.58
682	3.295	0.005	654.63	217.52	265.77	637.37
683	3.3	0.005	655.37	217.79	266.15	638.15
684	3.305	0.005	656.12	218.05	266.53	638.94
685	3.31	0.005	656.86	218.32	266.91	639.72
686	3.315	0.005	657.61	218.58	267.30	640.51
687	3.32	0.005	658.35	218.85	267.68	641.29
688	3.325	0.005	659.09	219.11	268.06	642.07
689	3.33	0.005	659.84	219.38	268.44	642.86
690	3.335	0.005	660.58	219.64	268.82	643.64
691	3.34	0.005	661.32	219.91	269.21	644.42
692	3.345	0.005	662.07	220.17	269.59	645.20

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
693	3.35	0.005	662.81	220.44	269.97	645.99
694	3.355	0.005	663.55	220.71	270.36	646.77
695	3.36	0.005	664.30	220.98	270.74	647.55
696	3.365	0.005	665.04	221.24	271.13	648.33
697	3.37	0.005	665.78	221.51	271.51	649.11
698	3.375	0.005	666.53	221.78	271.90	649.90
699	3.38	0.005	667.27	222.05	272.29	650.68
700	3.385	0.005	668.01	222.32	272.67	651.46
701	3.39	0.005	668.75	222.59	273.06	652.24
702	3.395	0.005	669.50	222.85	273.45	653.02
703	3.4	0.005	670.24	223.12	273.83	653.80
704	3.405	0.005	670.98	223.39	274.22	654.58
705	3.41	0.005	671.73	223.66	274.61	655.36
706	3.415	0.005	672.47	223.93	275.00	656.14
707	3.42	0.005	673.21	224.21	275.39	656.92
708	3.425	0.005	673.95	224.48	275.78	657.70
709	3.43	0.005	674.69	224.75	276.17	658.48
710	3.435	0.005	675.44	225.02	276.56	659.26
711	3.44	0.005	676.18	225.29	276.95	660.04
712	3.445	0.005	676.92	225.56	277.34	660.81
713	3.45	0.005	677.66	225.84	277.73	661.59
714	3.455	0.005	678.41	226.11	278.12	662.37
715	3.46	0.005	679.15	226.38	278.52	663.15
716	3.465	0.005	679.89	226.66	278.91	663.93
717	3.47	0.005	680.63	226.93	279.30	664.71
718	3.475	0.005	681.37	227.20	279.70	665.48
719	3.48	0.005	682.11	227.48	280.09	666.26
720	3.485	0.005	682.86	227.75	280.48	667.04
721	3.49	0.005	683.60	228.03	280.88	667.82
722	3.495	0.005	684.34	228.30	281.27	668.59
723	3.5	0.005	685.08	228.58	281.67	669.37
724	3.505	0.005	685.82	228.85	282.07	670.15
725	3.51	0.005	686.56	229.13	282.46	670.92
726	3.515	0.005	687.31	229.41	282.86	671.70
727	3.52	0.005	688.05	229.68	283.26	672.47
728	3.525	0.005	688.79	229.96	283.65	673.25
729	3.53	0.005	689.53	230.24	284.05	674.02
730	3.535	0.005	690.27	230.52	284.45	674.80
731	3.54	0.005	691.01	230.79	284.85	675.58
732	3.545	0.005	691.75	231.07	285.25	676.35
733	3.55	0.005	692.49	231.35	285.65	677.13

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
734	3.555	0.005	693.23	231.63	286.05	677.90
735	3.56	0.005	693.97	231.91	286.45	678.67
736	3.565	0.005	694.71	232.19	286.85	679.45
737	3.57	0.005	695.46	232.47	287.25	680.22
738	3.575	0.005	696.20	232.75	287.65	681.00
739	3.58	0.005	696.94	233.03	288.05	681.77
740	3.585	0.005	697.68	233.31	288.45	682.54
741	3.59	0.005	698.42	233.59	288.85	683.32
742	3.595	0.005	699.16	233.87	289.26	684.09
743	3.6	0.005	699.90	234.15	289.66	684.86
744	3.605	0.005	700.64	234.43	290.06	685.64
745	3.61	0.005	701.38	234.71	290.47	686.41
746	3.615	0.005	702.12	235.00	290.87	687.18
747	3.62	0.005	702.86	235.28	291.28	687.96
748	3.625	0.005	703.60	235.56	291.68	688.73
749	3.63	0.005	704.34	235.84	292.09	689.50
750	3.635	0.005	705.08	236.13	292.49	690.27
751	3.64	0.005	705.82	236.41	292.90	691.04
752	3.645	0.005	706.56	236.70	293.30	691.82
753	3.65	0.005	707.30	236.98	293.71	692.59
754	3.655	0.005	708.04	237.26	294.12	693.36
755	3.66	0.005	708.78	237.55	294.53	694.13
756	3.665	0.005	709.52	237.83	294.93	694.90
757	3.67	0.005	710.25	238.12	295.34	695.67
758	3.675	0.005	710.99	238.41	295.75	696.44
759	3.68	0.005	711.73	238.69	296.16	697.21
760	3.685	0.005	712.47	238.98	296.57	697.98
761	3.69	0.005	713.21	239.26	296.98	698.75
762	3.695	0.005	713.95	239.55	297.39	699.52
763	3.7	0.005	714.69	239.84	297.80	700.29
764	3.705	0.005	715.43	240.13	298.21	701.06
765	3.71	0.005	716.17	240.41	298.62	701.83
766	3.715	0.005	716.91	240.70	299.03	702.60
767	3.72	0.005	717.65	240.99	299.45	703.37
768	3.725	0.005	718.38	241.28	299.86	704.14
769	3.73	0.005	719.12	241.57	300.27	704.91
770	3.735	0.005	719.86	241.86	300.68	705.68
771	3.74	0.005	720.60	242.14	301.10	706.45
772	3.745	0.005	721.34	242.43	301.51	707.22
773	3.75	0.005	722.08	242.72	301.93	707.98
774	3.755	0.005	722.82	243.01	302.34	708.75

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
775	3.76	0.005	723.55	243.30	302.76	709.52
776	3.765	0.005	724.29	243.60	303.17	710.29
777	3.77	0.005	725.03	243.89	303.59	711.06
778	3.775	0.005	725.77	244.18	304.00	711.82
779	3.78	0.005	726.51	244.47	304.42	712.59
780	3.785	0.005	727.24	244.76	304.84	713.36
781	3.79	0.005	727.98	245.05	305.25	714.13
782	3.795	0.005	728.72	245.35	305.67	714.89
783	3.8	0.005	729.46	245.64	306.09	715.66
784	3.805	0.005	730.20	245.93	306.51	716.43
785	3.81	0.005	730.93	246.23	306.93	717.19
786	3.815	0.005	731.67	246.52	307.34	717.96
787	3.82	0.005	732.41	246.81	307.76	718.73
788	3.825	0.005	733.15	247.11	308.18	719.49
789	3.83	0.005	733.88	247.40	308.60	720.26
790	3.835	0.005	734.62	247.70	309.02	721.02
791	3.84	0.005	735.36	247.99	309.44	721.79
792	3.845	0.005	736.10	248.29	309.87	722.56
793	3.85	0.005	736.83	248.58	310.29	723.32
794	3.855	0.005	737.57	248.88	310.71	724.09
795	3.86	0.005	738.31	249.17	311.13	724.85
796	3.865	0.005	739.05	249.47	311.55	725.62
797	3.87	0.005	739.78	249.77	311.98	726.38
798	3.875	0.005	740.52	250.06	312.40	727.15
799	3.88	0.005	741.26	250.36	312.82	727.91
800	3.885	0.005	741.99	250.66	313.25	728.67
801	3.89	0.005	742.73	250.96	313.67	729.44
802	3.895	0.005	743.47	251.25	314.10	730.20
803	3.9	0.005	744.20	251.55	314.52	730.97
804	3.905	0.005	744.94	251.85	314.95	731.73
805	3.91	0.005	745.68	252.15	315.37	732.49
806	3.915	0.005	746.41	252.45	315.80	733.26
807	3.92	0.005	747.15	252.75	316.23	734.02
808	3.925	0.005	747.89	253.05	316.65	734.78
809	3.93	0.005	748.62	253.35	317.08	735.55
810	3.935	0.005	749.36	253.65	317.51	736.31
811	3.94	0.005	750.09	253.95	317.94	737.07
812	3.945	0.005	750.83	254.25	318.36	737.84
813	3.95	0.005	751.57	254.55	318.79	738.60
814	3.955	0.005	752.30	254.85	319.22	739.36
815	3.96	0.005	753.04	255.15	319.65	740.12

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
816	3.965	0.005	753.77	255.46	320.08	740.89
817	3.97	0.005	754.51	255.76	320.51	741.65
818	3.975	0.005	755.25	256.06	320.94	742.41
819	3.98	0.005	755.98	256.36	321.37	743.17
820	3.985	0.005	756.72	256.67	321.80	743.93
821	3.99	0.005	757.45	256.97	322.23	744.69
822	3.995	0.005	758.19	257.27	322.67	745.45
823	4	0.005	758.92	257.58	323.10	746.22
824	4.005	0.005	759.66	257.88	323.53	746.98
825	4.01	0.005	760.39	258.19	323.96	747.74
826	4.015	0.005	761.13	258.49	324.40	748.50
827	4.02	0.005	761.86	258.79	324.83	749.26
828	4.025	0.005	762.60	259.10	325.27	750.02
829	4.03	0.005	763.33	259.41	325.70	750.78
830	4.035	0.005	764.07	259.71	326.13	751.54
831	4.04	0.005	764.80	260.02	326.57	752.30
832	4.045	0.005	765.54	260.32	327.00	753.06
833	4.05	0.005	766.27	260.63	327.44	753.82
834	4.055	0.005	767.01	260.94	327.88	754.58
835	4.06	0.005	767.74	261.24	328.31	755.34
836	4.065	0.005	768.48	261.55	328.75	756.10
837	4.07	0.005	769.21	261.86	329.19	756.86
838	4.075	0.005	769.95	262.17	329.62	757.62
839	4.08	0.005	770.68	262.48	330.06	758.38
840	4.085	0.005	771.42	262.78	330.50	759.13
841	4.09	0.005	772.15	263.09	330.94	759.89
842	4.095	0.005	772.89	263.40	331.38	760.65
843	4.1	0.005	773.62	263.71	331.82	761.41
844	4.105	0.005	774.35	264.02	332.26	762.17
845	4.11	0.005	775.09	264.33	332.70	762.93
846	4.115	0.005	775.82	264.64	333.14	763.69
847	4.12	0.005	776.56	264.95	333.58	764.44
848	4.125	0.005	777.29	265.26	334.02	765.20
849	4.13	0.005	778.02	265.57	334.46	765.96
850	4.135	0.005	778.76	265.89	334.90	766.72
851	4.14	0.005	779.49	266.20	335.34	767.47
852	4.145	0.005	780.23	266.51	335.78	768.23
853	4.15	0.005	780.96	266.82	336.23	768.99
854	4.155	0.005	781.69	267.13	336.67	769.75
855	4.16	0.005	782.43	267.45	337.11	770.50
856	4.165	0.005	783.16	267.76	337.56	771.26

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
857	4.17	0.005	783.89	268.07	338.00	772.02
858	4.175	0.005	784.63	268.39	338.44	772.77
859	4.18	0.005	785.36	268.70	338.89	773.53
860	4.185	0.005	786.09	269.01	339.33	774.28
861	4.19	0.005	786.83	269.33	339.78	775.04
862	4.195	0.005	787.56	269.64	340.22	775.80
863	4.2	0.005	788.29	269.96	340.67	776.55
864	4.205	0.005	789.02	270.27	341.12	777.31
865	4.21	0.005	789.76	270.59	341.56	778.06
866	4.215	0.005	790.49	270.91	342.01	778.82
867	4.22	0.005	791.22	271.22	342.46	779.58
868	4.225	0.005	791.96	271.54	342.91	780.33
869	4.23	0.005	792.69	271.86	343.35	781.09
870	4.235	0.005	793.42	272.17	343.80	781.84
871	4.24	0.005	794.15	272.49	344.25	782.60
872	4.245	0.005	794.89	272.81	344.70	783.35
873	4.25	0.005	795.62	273.13	345.15	784.11
874	4.255	0.005	796.35	273.44	345.60	784.86
875	4.26	0.005	797.08	273.76	346.05	785.61
876	4.265	0.005	797.82	274.08	346.50	786.37
877	4.27	0.005	798.55	274.40	346.95	787.12
878	4.275	0.005	799.28	274.72	347.40	787.88
879	4.28	0.005	800.01	275.04	347.85	788.63
880	4.285	0.005	800.74	275.36	348.30	789.38
881	4.29	0.005	801.48	275.68	348.76	790.14
882	4.295	0.005	802.21	276.00	349.21	790.89
883	4.3	0.005	802.94	276.32	349.66	791.65
884	4.305	0.005	803.67	276.64	350.11	792.40
885	4.31	0.005	804.40	276.96	350.57	793.15
886	4.315	0.005	805.13	277.28	351.02	793.90
887	4.32	0.005	805.87	277.61	351.47	794.66
888	4.325	0.005	806.60	277.93	351.93	795.41
889	4.33	0.005	807.33	278.25	352.38	796.16
890	4.335	0.005	808.06	278.57	352.84	796.92
891	4.34	0.005	808.79	278.90	353.29	797.67
892	4.345	0.005	809.52	279.22	353.75	798.42
893	4.35	0.005	810.25	279.54	354.20	799.17
894	4.355	0.005	810.99	279.87	354.66	799.93
895	4.36	0.005	811.72	280.19	355.12	800.68
896	4.365	0.005	812.45	280.52	355.57	801.43
897	4.37	0.005	813.18	280.84	356.03	802.18

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
898	4.375	0.005	813.91	281.17	356.49	802.93
899	4.38	0.005	814.64	281.49	356.95	803.68
900	4.385	0.005	815.37	281.82	357.41	804.44
901	4.39	0.005	816.10	282.14	357.86	805.19
902	4.395	0.005	816.83	282.47	358.32	805.94
903	4.4	0.005	817.56	282.79	358.78	806.69
904	4.405	0.005	818.29	283.12	359.24	807.44
905	4.41	0.005	819.02	283.45	359.70	808.19
906	4.415	0.005	819.75	283.77	360.16	808.94
907	4.42	0.005	820.48	284.10	360.62	809.69
908	4.425	0.005	821.21	284.43	361.08	810.44
909	4.43	0.005	821.94	284.76	361.54	811.19
910	4.435	0.005	822.68	285.09	362.01	811.94
911	4.44	0.005	823.41	285.41	362.47	812.69
912	4.445	0.005	824.14	285.74	362.93	813.44
913	4.45	0.005	824.87	286.07	363.39	814.19
914	4.455	0.005	825.60	286.40	363.86	814.94
915	4.46	0.005	826.33	286.73	364.32	815.69
916	4.465	0.005	827.05	287.06	364.78	816.44
917	4.47	0.005	827.78	287.39	365.25	817.19
918	4.475	0.005	828.51	287.72	365.71	817.94
919	4.48	0.005	829.24	288.05	366.17	818.69
920	4.485	0.005	829.97	288.38	366.64	819.44
921	4.49	0.005	830.70	288.71	367.10	820.19
922	4.495	0.005	831.43	289.05	367.57	820.94
923	4.5	0.005	832.16	289.38	368.03	821.69
924	4.505	0.005	832.89	289.71	368.50	822.44
925	4.51	0.005	833.62	290.04	368.97	823.18
926	4.515	0.005	834.35	290.37	369.43	823.93
927	4.52	0.005	835.08	290.71	369.90	824.68
928	4.525	0.005	835.81	291.04	370.37	825.43
929	4.53	0.005	836.54	291.37	370.84	826.18
930	4.535	0.005	837.27	291.71	371.30	826.92
931	4.54	0.005	837.99	292.04	371.77	827.67
932	4.545	0.005	838.72	292.38	372.24	828.42
933	4.55	0.005	839.45	292.71	372.71	829.17
934	4.555	0.005	840.18	293.05	373.18	829.92
935	4.56	0.005	840.91	293.38	373.65	830.66
936	4.565	0.005	841.64	293.72	374.12	831.41
937	4.57	0.005	842.37	294.05	374.59	832.16
938	4.575	0.005	843.10	294.39	375.06	832.91

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
939	4.58	0.005	843.82	294.72	375.53	833.65
940	4.585	0.005	844.55	295.06	376.00	834.40
941	4.59	0.005	845.28	295.40	376.47	835.15
942	4.595	0.005	846.01	295.73	376.94	835.89
943	4.6	0.005	846.74	296.07	377.41	836.64
944	4.605	0.005	847.47	296.41	377.89	837.39
945	4.61	0.005	848.19	296.75	378.36	838.13
946	4.615	0.005	848.92	297.08	378.83	838.88
947	4.62	0.005	849.65	297.42	379.31	839.62
948	4.625	0.005	850.38	297.76	379.78	840.37
949	4.63	0.005	851.11	298.10	380.25	841.12
950	4.635	0.005	851.83	298.44	380.73	841.86
951	4.64	0.005	852.56	298.78	381.20	842.61
952	4.645	0.005	853.29	299.12	381.68	843.35
953	4.65	0.005	854.02	299.46	382.15	844.10
954	4.655	0.005	854.74	299.80	382.63	844.84
955	4.66	0.005	855.47	300.14	383.10	845.59
956	4.665	0.005	856.20	300.48	383.58	846.34
957	4.67	0.005	856.93	300.82	384.05	847.08
958	4.675	0.005	857.65	301.16	384.53	847.83
959	4.68	0.005	858.38	301.50	385.01	848.57
960	4.685	0.005	859.11	301.85	385.49	849.31
961	4.69	0.005	859.83	302.19	385.96	850.06
962	4.695	0.005	860.56	302.53	386.44	850.80
963	4.7	0.005	861.29	302.87	386.92	851.55
964	4.705	0.005	862.02	303.22	387.40	852.29
965	4.71	0.005	862.74	303.56	387.88	853.04
966	4.715	0.005	863.47	303.90	388.36	853.78
967	4.72	0.005	864.20	304.25	388.84	854.53
968	4.725	0.005	864.92	304.59	389.31	855.27
969	4.73	0.005	865.65	304.94	389.79	856.01
970	4.735	0.005	866.38	305.28	390.28	856.76
971	4.74	0.005	867.10	305.62	390.76	857.50
972	4.745	0.005	867.83	305.97	391.24	858.24
973	4.75	0.005	868.56	306.31	391.72	858.99
974	4.755	0.005	869.28	306.66	392.20	859.73
975	4.76	0.005	870.01	307.01	392.68	860.47
976	4.765	0.005	870.73	307.35	393.16	861.22
977	4.77	0.005	871.46	307.70	393.65	861.96
978	4.775	0.005	872.19	308.05	394.13	862.70
979	4.78	0.005	872.91	308.39	394.61	863.45

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
980	4.785	0.005	873.64	308.74	395.10	864.19
981	4.79	0.005	874.36	309.09	395.58	864.93
982	4.795	0.005	875.09	309.43	396.06	865.67
983	4.8	0.005	875.82	309.78	396.55	866.42
984	4.805	0.005	876.54	310.13	397.03	867.16
985	4.81	0.005	877.27	310.48	397.52	867.90
986	4.815	0.005	877.99	310.83	398.00	868.64
987	4.82	0.005	878.72	311.18	398.49	869.38
988	4.825	0.005	879.44	311.53	398.97	870.13
989	4.83	0.005	880.17	311.88	399.46	870.87
990	4.835	0.005	880.90	312.23	399.95	871.61
991	4.84	0.005	881.62	312.58	400.43	872.35
992	4.845	0.005	882.35	312.93	400.92	873.09
993	4.85	0.005	883.07	313.28	401.41	873.83
994	4.855	0.005	883.80	313.63	401.89	874.58
995	4.86	0.005	884.52	313.98	402.38	875.32
996	4.865	0.005	885.25	314.33	402.87	876.06
997	4.87	0.005	885.97	314.68	403.36	876.80
998	4.875	0.005	886.70	315.03	403.85	877.54
999	4.88	0.005	887.42	315.39	404.34	878.28
1000	4.885	0.005	888.15	315.74	404.83	879.02
1001	4.89	0.005	888.87	316.09	405.31	879.76
1002	4.895	0.005	889.60	316.44	405.80	880.50
1003	4.9	0.005	890.32	316.80	406.29	881.24
1004	4.905	0.005	891.04	317.15	406.79	881.98
1005	4.91	0.005	891.77	317.51	407.28	882.72
1006	4.915	0.005	892.49	317.86	407.77	883.46
1007	4.92	0.005	893.22	318.21	408.26	884.20
1008	4.925	0.005	893.94	318.57	408.75	884.94
1009	4.93	0.005	894.67	318.92	409.24	885.68
1010	4.935	0.005	895.39	319.28	409.73	886.42
1011	4.94	0.005	896.12	319.63	410.23	887.16
1012	4.945	0.005	896.84	319.99	410.72	887.90
1013	4.95	0.005	897.56	320.35	411.21	888.64
1014	4.955	0.005	898.29	320.70	411.71	889.38
1015	4.96	0.005	899.01	321.06	412.20	890.12
1016	4.965	0.005	899.74	321.41	412.69	890.86
1017	4.97	0.005	900.46	321.77	413.19	891.60
1018	4.975	0.005	901.18	322.13	413.68	892.34
1019	4.98	0.005	901.91	322.49	414.18	893.08
1020	4.985	0.005	902.63	322.84	414.67	893.82

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1021	4.99	0.005	903.35	323.20	415.17	894.55
1022	4.995	0.005	904.08	323.56	415.66	895.29
1023	5	0.005	904.80	323.92	416.16	896.03
1024	5.005	0.005	905.52	324.28	416.66	896.77
1025	5.01	0.005	906.25	324.64	417.15	897.51
1026	5.015	0.005	906.97	325.00	417.65	898.25
1027	5.02	0.005	907.69	325.36	418.15	898.98
1028	5.025	0.005	908.42	325.71	418.65	899.72
1029	5.03	0.005	909.14	326.07	419.14	900.46
1030	5.035	0.005	909.86	326.44	419.64	901.20
1031	5.04	0.005	910.59	326.80	420.14	901.94
1032	5.045	0.005	911.31	327.16	420.64	902.67
1033	5.05	0.005	912.03	327.52	421.14	903.41
1034	5.055	0.005	912.76	327.88	421.64	904.15
1035	5.06	0.005	913.48	328.24	422.14	904.89
1036	5.065	0.005	914.20	328.60	422.64	905.62
1037	5.07	0.005	914.92	328.96	423.14	906.36
1038	5.075	0.005	915.65	329.33	423.64	907.10
1039	5.08	0.005	916.37	329.69	424.14	907.83
1040	5.085	0.005	917.09	330.05	424.64	908.57
1041	5.09	0.005	917.81	330.42	425.14	909.31
1042	5.095	0.005	918.54	330.78	425.64	910.05
1043	5.1	0.005	919.26	331.14	426.14	910.78
1044	5.105	0.005	919.98	331.51	426.64	911.52
1045	5.11	0.005	920.70	331.87	427.15	912.25
1046	5.115	0.005	921.42	332.24	427.65	912.99
1047	5.12	0.005	922.15	332.60	428.15	913.73
1048	5.125	0.005	922.87	332.96	428.65	914.46
1049	5.13	0.005	923.59	333.33	429.16	915.20
1050	5.135	0.005	924.31	333.70	429.66	915.94
1051	5.14	0.005	925.03	334.06	430.17	916.67
1052	5.145	0.005	925.76	334.43	430.67	917.41
1053	5.15	0.005	926.48	334.79	431.18	918.14
1054	5.155	0.005	927.20	335.16	431.68	918.88
1055	5.16	0.005	927.92	335.53	432.19	919.61
1056	5.165	0.005	928.64	335.89	432.69	920.35
1057	5.17	0.005	929.36	336.26	433.20	921.08
1058	5.175	0.005	930.09	336.63	433.70	921.82
1059	5.18	0.005	930.81	337.00	434.21	922.56
1060	5.185	0.005	931.53	337.36	434.71	923.29
1061	5.19	0.005	932.25	337.73	435.22	924.03

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1062	5.195	0.005	932.97	338.10	435.73	924.76
1063	5.2	0.005	933.69	338.47	436.24	925.49
1064	5.205	0.005	934.41	338.84	436.74	926.23
1065	5.21	0.005	935.13	339.21	437.25	926.96
1066	5.215	0.005	935.86	339.58	437.76	927.70
1067	5.22	0.005	936.58	339.95	438.27	928.43
1068	5.225	0.005	937.30	340.32	438.78	929.17
1069	5.23	0.005	938.02	340.69	439.29	929.90
1070	5.235	0.005	938.74	341.06	439.80	930.64
1071	5.24	0.005	939.46	341.43	440.31	931.37
1072	5.245	0.005	940.18	341.80	440.81	932.10
1073	5.25	0.005	940.90	342.17	441.33	932.84
1074	5.255	0.005	941.62	342.54	441.84	933.57
1075	5.26	0.005	942.34	342.91	442.35	934.31
1076	5.265	0.005	943.06	343.29	442.86	935.04
1077	5.27	0.005	943.78	343.66	443.37	935.77
1078	5.275	0.005	944.50	344.03	443.88	936.51
1079	5.28	0.005	945.22	344.40	444.39	937.24
1080	5.285	0.005	945.94	344.78	444.90	937.97
1081	5.29	0.005	946.66	345.15	445.42	938.71
1082	5.295	0.005	947.38	345.52	445.93	939.44
1083	5.3	0.005	948.10	345.90	446.44	940.17
1084	5.305	0.005	948.82	346.27	446.95	940.91
1085	5.31	0.005	949.54	346.65	447.47	941.64
1086	5.315	0.005	950.26	347.02	447.98	942.37
1087	5.32	0.005	950.98	347.40	448.50	943.10
1088	5.325	0.005	951.70	347.77	449.01	943.84
1089	5.33	0.005	952.42	348.15	449.52	944.57
1090	5.335	0.005	953.14	348.52	450.04	945.30
1091	5.34	0.005	953.86	348.90	450.55	946.03
1092	5.345	0.005	954.58	349.27	451.07	946.77
1093	5.35	0.005	955.30	349.65	451.58	947.50
1094	5.355	0.005	956.02	350.03	452.10	948.23
1095	5.36	0.005	956.74	350.40	452.62	948.96
1096	5.365	0.005	957.46	350.78	453.13	949.69
1097	5.37	0.005	958.18	351.16	453.65	950.43
1098	5.375	0.005	958.90	351.53	454.17	951.16
1099	5.38	0.005	959.62	351.91	454.68	951.89
1100	5.385	0.005	960.33	352.29	455.20	952.62
1101	5.39	0.005	961.05	352.67	455.72	953.35
1102	5.395	0.005	961.77	353.05	456.24	954.08

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1103	5.4	0.005	962.49	353.43	456.76	954.81
1104	5.405	0.005	963.21	353.81	457.27	955.55
1105	5.41	0.005	963.93	354.18	457.79	956.28
1106	5.415	0.005	964.65	354.56	458.31	957.01
1107	5.42	0.005	965.37	354.94	458.83	957.74
1108	5.425	0.005	966.09	355.32	459.35	958.47
1109	5.43	0.005	966.80	355.70	459.87	959.20
1110	5.435	0.005	967.52	356.08	460.39	959.93
1111	5.44	0.005	968.24	356.47	460.91	960.66
1112	5.445	0.005	968.96	356.85	461.43	961.39
1113	5.45	0.005	969.68	357.23	461.95	962.12
1114	5.455	0.005	970.40	357.61	462.47	962.85
1115	5.46	0.005	971.11	357.99	462.99	963.58
1116	5.465	0.005	971.83	358.37	463.52	964.31
1117	5.47	0.005	972.55	358.76	464.04	965.04
1118	5.475	0.005	973.27	359.14	464.56	965.77
1119	5.48	0.005	973.99	359.52	465.08	966.50
1120	5.485	0.005	974.70	359.90	465.61	967.23
1121	5.49	0.005	975.42	360.29	466.13	967.96
1122	5.495	0.005	976.14	360.67	466.65	968.69
1123	5.5	0.005	976.86	361.05	467.18	969.42
1124	5.505	0.005	977.57	361.44	467.70	970.15
1125	5.51	0.005	978.29	361.82	468.22	970.88
1126	5.515	0.005	979.01	362.21	468.75	971.61
1127	5.52	0.005	979.73	362.59	469.27	972.34
1128	5.525	0.005	980.45	362.98	469.80	973.07
1129	5.53	0.005	981.16	363.36	470.32	973.80
1130	5.535	0.005	981.88	363.75	470.85	974.53
1131	5.54	0.005	982.60	364.13	471.37	975.26
1132	5.545	0.005	983.31	364.52	471.90	975.99
1133	5.55	0.005	984.03	364.91	472.42	976.71
1134	5.555	0.005	984.75	365.29	472.95	977.44
1135	5.56	0.005	985.47	365.68	473.48	978.17
1136	5.565	0.005	986.18	366.07	474.00	978.90
1137	5.57	0.005	986.90	366.45	474.53	979.63
1138	5.575	0.005	987.62	366.84	475.06	980.36
1139	5.58	0.005	988.33	367.23	475.59	981.09
1140	5.585	0.005	989.05	367.62	476.11	981.81
1141	5.59	0.005	989.77	368.00	476.64	982.54
1142	5.595	0.005	990.48	368.39	477.17	983.27
1143	5.6	0.005	991.20	368.78	477.70	984.00

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1144	5.605	0.005	991.92	369.17	478.23	984.73
1145	5.61	0.005	992.63	369.56	478.76	985.45
1146	5.615	0.005	993.35	369.95	479.29	986.18
1147	5.62	0.005	994.07	370.34	479.82	986.91
1148	5.625	0.005	994.78	370.73	480.35	987.64
1149	5.63	0.005	995.50	371.12	480.88	988.36
1150	5.635	0.005	996.22	371.51	481.41	989.09
1151	5.64	0.005	996.93	371.90	481.94	989.82
1152	5.645	0.005	997.65	372.29	482.47	990.55
1153	5.65	0.005	998.36	372.68	483.00	991.27
1154	5.655	0.005	999.08	373.07	483.53	992.00
1155	5.66	0.005	999.80	373.46	484.06	992.73
1156	5.665	0.005	1000.51	373.85	484.59	993.45
1157	5.67	0.005	1001.23	374.25	485.13	994.18
1158	5.675	0.005	1001.94	374.64	485.66	994.91
1159	5.68	0.005	1002.66	375.03	486.19	995.63
1160	5.685	0.005	1003.37	375.42	486.72	996.36
1161	5.69	0.005	1004.09	375.82	487.26	997.09
1162	5.695	0.005	1004.81	376.21	487.79	997.81
1163	5.7	0.005	1005.52	376.60	488.33	998.54
1164	5.705	0.005	1006.24	377.00	488.86	999.27
1165	5.71	0.005	1006.95	377.39	489.39	999.99
1166	5.715	0.005	1007.67	377.79	489.93	1000.72
1167	5.72	0.005	1008.38	378.18	490.46	1001.45
1168	5.725	0.005	1009.10	378.57	491.00	1002.17
1169	5.73	0.005	1009.81	378.97	491.53	1002.90
1170	5.735	0.005	1010.53	379.36	492.07	1003.62
1171	5.74	0.005	1011.24	379.76	492.60	1004.35
1172	5.745	0.005	1011.96	380.16	493.14	1005.07
1173	5.75	0.005	1012.67	380.55	493.68	1005.80
1174	5.755	0.005	1013.39	380.95	494.21	1006.53
1175	5.76	0.005	1014.10	381.34	494.75	1007.25
1176	5.765	0.005	1014.82	381.74	495.29	1007.98
1177	5.77	0.005	1015.53	382.14	495.82	1008.70
1178	5.775	0.005	1016.25	382.53	496.36	1009.43
1179	5.78	0.005	1016.96	382.93	496.90	1010.15
1180	5.785	0.005	1017.68	383.33	497.44	1010.88
1181	5.79	0.005	1018.39	383.73	497.97	1011.60
1182	5.795	0.005	1019.11	384.12	498.51	1012.33
1183	5.8	0.005	1019.82	384.52	499.05	1013.05
1184	5.805	0.005	1020.53	384.92	499.59	1013.78

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1185	5.81	0.005	1021.25	385.32	500.13	1014.50
1186	5.815	0.005	1021.96	385.72	500.67	1015.23
1187	5.82	0.005	1022.68	386.12	501.21	1015.95
1188	5.825	0.005	1023.39	386.52	501.75	1016.67
1189	5.83	0.005	1024.11	386.92	502.29	1017.40
1190	5.835	0.005	1024.82	387.32	502.83	1018.12
1191	5.84	0.005	1025.53	387.72	503.37	1018.85
1192	5.845	0.005	1026.25	388.12	503.91	1019.57
1193	5.85	0.005	1026.96	388.52	504.45	1020.30
1194	5.855	0.005	1027.68	388.92	504.99	1021.02
1195	5.86	0.005	1028.39	389.32	505.53	1021.74
1196	5.865	0.005	1029.10	389.72	506.08	1022.47
1197	5.87	0.005	1029.82	390.12	506.62	1023.19
1198	5.875	0.005	1030.53	390.52	507.16	1023.91
1199	5.88	0.005	1031.24	390.93	507.70	1024.64
1200	5.885	0.005	1031.96	391.33	508.24	1025.36
1201	5.89	0.005	1032.67	391.73	508.79	1026.08
1202	5.895	0.005	1033.38	392.13	509.33	1026.81
1203	5.9	0.005	1034.10	392.54	509.87	1027.53
1204	5.905	0.005	1034.81	392.94	510.42	1028.25
1205	5.91	0.005	1035.52	393.34	510.96	1028.98
1206	5.915	0.005	1036.24	393.75	511.51	1029.70
1207	5.92	0.005	1036.95	394.15	512.05	1030.42
1208	5.925	0.005	1037.66	394.55	512.59	1031.15
1209	5.93	0.005	1038.38	394.96	513.14	1031.87
1210	5.935	0.005	1039.09	395.36	513.68	1032.59
1211	5.94	0.005	1039.80	395.77	514.23	1033.31
1212	5.945	0.005	1040.51	396.17	514.78	1034.04
1213	5.95	0.005	1041.23	396.58	515.32	1034.76
1214	5.955	0.005	1041.94	396.98	515.87	1035.48
1215	5.96	0.005	1042.65	397.39	516.41	1036.20
1216	5.965	0.005	1043.37	397.80	516.96	1036.93
1217	5.97	0.005	1044.08	398.20	517.51	1037.65
1218	5.975	0.005	1044.79	398.61	518.05	1038.37
1219	5.98	0.005	1045.50	399.02	518.60	1039.09
1220	5.985	0.005	1046.22	399.42	519.15	1039.82
1221	5.99	0.005	1046.93	399.83	519.70	1040.54
1222	5.995	0.005	1047.64	400.24	520.24	1041.26
1223	6	0.005	1048.35	400.64	520.79	1041.98
1224	6.005	0.005	1049.06	401.05	521.34	1042.70
1225	6.01	0.005	1049.78	401.46	521.89	1043.42

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1226	6.015	0.005	1050.49	401.87	522.44	1044.15
1227	6.02	0.005	1051.20	402.28	522.99	1045.88
1228	6.025	0.005	1051.94	402.69	523.54	1047.33
1229	6.03	0.005	1052.69	403.09	524.09	1048.59
1230	6.035	0.005	1053.46	403.50	524.64	1049.72
1231	6.04	0.005	1054.23	403.91	525.19	1050.75
1232	6.045	0.005	1055.01	404.32	525.74	1051.71
1233	6.05	0.005	1055.80	404.73	526.29	1052.62
1234	6.055	0.005	1056.59	405.14	526.84	1053.50
1235	6.06	0.005	1057.38	405.55	527.39	1054.35
1236	6.065	0.005	1058.17	405.96	527.94	1055.19
1237	6.07	0.005	1058.96	406.38	528.49	1056.02
1238	6.075	0.005	1059.76	406.79	529.05	1056.84
1239	6.08	0.005	1060.55	407.20	529.60	1057.65
1240	6.085	0.005	1061.34	407.61	530.15	1058.46
1241	6.09	0.005	1062.14	408.02	530.70	1059.26
1242	6.095	0.005	1062.93	408.44	531.26	1060.07
1243	6.1	0.005	1063.73	408.85	531.81	1060.87
1244	6.105	0.005	1064.52	409.26	532.37	1061.67
1245	6.11	0.005	1065.32	409.68	532.92	1062.47
1246	6.115	0.005	1066.11	410.09	533.48	1063.27
1247	6.12	0.005	1066.90	410.50	534.03	1064.07
1248	6.125	0.005	1067.70	410.92	534.59	1064.87
1249	6.13	0.005	1068.49	411.33	535.14	1065.67
1250	6.135	0.005	1069.29	411.75	535.70	1066.47
1251	6.14	0.005	1070.08	412.16	536.25	1067.27
1252	6.145	0.005	1070.88	412.58	536.81	1068.06
1253	6.15	0.005	1071.67	412.99	537.37	1068.86
1254	6.155	0.005	1072.46	413.41	537.93	1069.66
1255	6.16	0.005	1073.26	413.83	538.48	1070.46
1256	6.165	0.005	1074.05	414.24	539.04	1071.26
1257	6.17	0.005	1074.84	414.66	539.60	1072.05
1258	6.175	0.005	1075.64	415.08	540.16	1072.85
1259	6.18	0.005	1076.43	415.49	540.72	1073.65
1260	6.185	0.005	1077.22	415.91	541.28	1074.45
1261	6.19	0.005	1078.02	416.33	541.84	1075.25
1262	6.195	0.005	1078.81	416.75	542.40	1076.04
1263	6.2	0.005	1079.60	417.17	542.96	1076.84
1264	6.205	0.005	1080.40	417.58	543.52	1077.64
1265	6.21	0.005	1081.19	418.00	544.08	1078.43
1266	6.215	0.005	1081.98	418.42	544.64	1079.23

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1267	6.22	0.005	1082.78	418.84	545.20	1080.03
1268	6.225	0.005	1083.57	419.26	545.76	1080.83
1269	6.23	0.005	1084.36	419.68	546.32	1081.62
1270	6.235	0.005	1085.15	420.10	546.88	1082.42
1271	6.24	0.005	1085.95	420.52	547.45	1083.22
1272	6.245	0.005	1086.74	420.94	548.01	1084.01
1273	6.25	0.005	1087.53	421.36	548.57	1084.81
1274	6.255	0.005	1088.32	421.79	549.14	1085.61
1275	6.26	0.005	1089.11	422.21	549.70	1086.40
1276	6.265	0.005	1089.91	422.63	550.26	1087.20
1277	6.27	0.005	1090.70	423.05	550.83	1087.99
1278	6.275	0.005	1091.49	423.48	551.39	1088.79
1279	6.28	0.005	1092.28	423.90	551.96	1089.59
1280	6.285	0.005	1093.07	424.32	552.52	1090.38
1281	6.29	0.005	1093.87	424.74	553.09	1091.18
1282	6.295	0.005	1094.66	425.17	553.66	1091.97
1283	6.3	0.005	1095.45	425.59	554.22	1092.77
1284	6.305	0.005	1096.24	426.02	554.79	1093.56
1285	6.31	0.005	1097.03	426.44	555.35	1094.36
1286	6.315	0.005	1097.82	426.87	555.92	1095.15
1287	6.32	0.005	1098.61	427.29	556.49	1095.95
1288	6.325	0.005	1099.41	427.72	557.06	1096.75
1289	6.33	0.005	1100.20	428.14	557.62	1097.54
1290	6.335	0.005	1100.99	428.57	558.19	1098.34
1291	6.34	0.005	1101.78	428.99	558.76	1099.13
1292	6.345	0.005	1102.57	429.42	559.33	1099.93
1293	6.35	0.005	1103.36	429.85	559.90	1100.72
1294	6.355	0.005	1104.15	430.27	560.47	1101.51
1295	6.36	0.005	1104.94	430.70	561.04	1102.31
1296	6.365	0.005	1105.73	431.13	561.61	1103.10
1297	6.37	0.005	1106.52	431.56	562.18	1103.90
1298	6.375	0.005	1107.31	431.98	562.75	1104.69
1299	6.38	0.005	1108.10	432.41	563.32	1105.49
1300	6.385	0.005	1108.89	432.84	563.89	1106.28
1301	6.39	0.005	1109.68	433.27	564.46	1107.07
1302	6.395	0.005	1110.47	433.70	565.04	1107.87
1303	6.4	0.005	1111.26	434.13	565.61	1108.66
1304	6.405	0.005	1112.05	434.56	566.18	1109.46
1305	6.41	0.005	1112.84	434.99	566.75	1110.25
1306	6.415	0.005	1113.63	435.42	567.33	1111.04
1307	6.42	0.005	1114.42	435.85	567.90	1111.84

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1308	6.425	0.005	1115.21	436.28	568.47	1112.63
1309	6.43	0.005	1116.00	436.71	569.05	1113.42
1310	6.435	0.005	1116.79	437.14	569.62	1114.22
1311	6.44	0.005	1117.58	437.57	570.19	1115.01
1312	6.445	0.005	1118.37	438.01	570.77	1115.80
1313	6.45	0.005	1119.16	438.44	571.34	1116.60
1314	6.455	0.005	1119.95	438.87	571.92	1117.39
1315	6.46	0.005	1120.74	439.30	572.50	1118.18
1316	6.465	0.005	1121.53	439.74	573.07	1118.98
1317	6.47	0.005	1122.31	440.17	573.65	1119.77
1318	6.475	0.005	1123.10	440.60	574.22	1120.56
1319	6.48	0.005	1123.89	441.04	574.80	1121.35
1320	6.485	0.005	1124.68	441.47	575.38	1122.15
1321	6.49	0.005	1125.47	441.91	575.96	1122.94
1322	6.495	0.005	1126.26	442.34	576.53	1123.73
1323	6.5	0.005	1127.05	442.77	577.11	1124.52
1324	6.505	0.005	1127.83	443.21	577.69	1125.31
1325	6.51	0.005	1128.62	443.64	578.27	1126.11
1326	6.515	0.005	1129.41	444.08	578.85	1126.90
1327	6.52	0.005	1130.20	444.52	579.43	1127.69
1328	6.525	0.005	1130.99	444.95	580.01	1128.48
1329	6.53	0.005	1131.78	445.39	580.58	1129.27
1330	6.535	0.005	1132.56	445.83	581.16	1130.07
1331	6.54	0.005	1133.35	446.26	581.74	1130.86
1332	6.545	0.005	1134.14	446.70	582.33	1131.65
1333	6.55	0.005	1134.93	447.14	582.91	1132.44
1334	6.555	0.005	1135.71	447.58	583.49	1133.23
1335	6.56	0.005	1136.50	448.01	584.07	1134.02
1336	6.565	0.005	1137.29	448.45	584.65	1134.81
1337	6.57	0.005	1138.08	448.89	585.23	1135.60
1338	6.575	0.005	1138.86	449.33	585.81	1136.40
1339	6.58	0.005	1139.65	449.77	586.40	1137.19
1340	6.585	0.005	1140.44	450.21	586.98	1137.98
1341	6.59	0.005	1141.23	450.65	587.56	1138.77
1342	6.595	0.005	1142.01	451.09	588.15	1139.56
1343	6.6	0.005	1142.80	451.53	588.73	1140.35
1344	6.605	0.005	1143.59	451.97	589.31	1141.14
1345	6.61	0.005	1144.37	452.41	589.90	1141.93
1346	6.615	0.005	1145.16	452.85	590.48	1142.72
1347	6.62	0.005	1145.95	453.29	591.07	1143.51
1348	6.625	0.005	1146.73	453.73	591.65	1144.30

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1349	6.63	0.005	1147.52	454.17	592.24	1145.09
1350	6.635	0.005	1148.31	454.62	592.82	1145.88
1351	6.64	0.005	1149.09	455.06	593.41	1146.67
1352	6.645	0.005	1149.88	455.50	594.00	1147.46
1353	6.65	0.005	1150.66	455.94	594.58	1148.25
1354	6.655	0.005	1151.45	456.39	595.17	1149.04
1355	6.66	0.005	1152.24	456.83	595.76	1149.83
1356	6.665	0.005	1153.02	457.27	596.34	1150.62
1357	6.67	0.005	1153.81	457.72	596.93	1151.41
1358	6.675	0.005	1154.59	458.16	597.52	1152.20
1359	6.68	0.005	1155.38	458.61	598.11	1152.99
1360	6.685	0.005	1156.17	459.05	598.69	1153.77
1361	6.69	0.005	1156.95	459.49	599.28	1154.56
1362	6.695	0.005	1157.74	459.94	599.87	1155.35
1363	6.7	0.005	1158.52	460.39	600.46	1156.14
1364	6.705	0.005	1159.31	460.83	601.05	1156.93
1365	6.71	0.005	1160.09	461.28	601.64	1157.72
1366	6.715	0.005	1160.88	461.72	602.23	1158.51
1367	6.72	0.005	1161.66	462.17	602.82	1159.30
1368	6.725	0.005	1162.45	462.62	603.41	1160.08
1369	6.73	0.005	1163.23	463.06	604.00	1160.87
1370	6.735	0.005	1164.02	463.51	604.59	1161.66
1371	6.74	0.005	1164.80	463.96	605.18	1162.45
1372	6.745	0.005	1165.59	464.41	605.78	1163.24
1373	6.75	0.005	1166.37	464.85	606.37	1164.03
1374	6.755	0.005	1167.16	465.30	606.96	1164.81
1375	6.76	0.005	1167.94	465.75	607.55	1165.60
1376	6.765	0.005	1168.73	466.20	608.15	1166.39
1377	6.77	0.005	1169.51	466.65	608.74	1167.18
1378	6.775	0.005	1170.30	467.10	609.33	1167.97
1379	6.78	0.005	1171.08	467.55	609.93	1168.75
1380	6.785	0.005	1171.86	468.00	610.52	1169.54
1381	6.79	0.005	1172.65	468.45	611.11	1170.33
1382	6.795	0.005	1173.43	468.90	611.71	1171.12
1383	6.8	0.005	1174.22	469.35	612.30	1171.90
1384	6.805	0.005	1175.00	469.80	612.90	1172.69
1385	6.81	0.005	1175.78	470.25	613.49	1173.48
1386	6.815	0.005	1176.57	470.70	614.09	1174.26
1387	6.82	0.005	1177.35	471.15	614.68	1175.05
1388	6.825	0.005	1178.14	471.60	615.28	1175.84
1389	6.83	0.005	1178.92	472.06	615.88	1176.62

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1390	6.835	0.005	1179.70	472.51	616.47	1177.41
1391	6.84	0.005	1180.49	472.96	617.07	1178.20
1392	6.845	0.005	1181.27	473.42	617.67	1178.98
1393	6.85	0.005	1182.05	473.87	618.26	1179.77
1394	6.855	0.005	1182.84	474.32	618.86	1180.56
1395	6.86	0.005	1183.62	474.78	619.46	1181.34
1396	6.865	0.005	1184.40	475.23	620.06	1182.13
1397	6.87	0.005	1185.18	475.68	620.65	1182.92
1398	6.875	0.005	1185.97	476.14	621.25	1183.70
1399	6.88	0.005	1186.75	476.59	621.85	1184.49
1400	6.885	0.005	1187.53	477.05	622.45	1185.27
1401	6.89	0.005	1188.32	477.50	623.05	1186.06
1402	6.895	0.005	1189.10	477.96	623.65	1186.85
1403	6.9	0.005	1189.88	478.41	624.25	1187.63
1404	6.905	0.005	1190.66	478.87	624.85	1188.42
1405	6.91	0.005	1191.45	479.33	625.45	1189.20
1406	6.915	0.005	1192.23	479.78	626.05	1189.99
1407	6.92	0.005	1193.01	480.24	626.65	1190.77
1408	6.925	0.005	1193.79	480.70	627.25	1191.56
1409	6.93	0.005	1194.57	481.15	627.86	1192.34
1410	6.935	0.005	1195.36	481.61	628.46	1193.13
1411	6.94	0.005	1196.14	482.07	629.06	1193.91
1412	6.945	0.005	1196.92	482.53	629.66	1194.70
1413	6.95	0.005	1197.70	482.99	630.26	1195.48
1414	6.955	0.005	1198.48	483.44	630.87	1196.27
1415	6.96	0.005	1199.27	483.90	631.47	1197.05
1416	6.965	0.005	1200.05	484.36	632.07	1197.84
1417	6.97	0.005	1200.83	484.82	632.68	1198.62
1418	6.975	0.005	1201.61	485.28	633.28	1199.41
1419	6.98	0.005	1202.39	485.74	633.89	1200.19
1420	6.985	0.005	1203.17	486.20	634.49	1200.98
1421	6.99	0.005	1203.95	486.66	635.09	1201.76
1422	6.995	0.005	1204.74	487.12	635.70	1202.54
1423	7	0.005	1205.52	487.58	636.30	1203.33
1424	7.005	0.005	1206.30	488.04	636.91	1204.11
1425	7.01	0.005	1207.08	488.50	637.52	1204.90
1426	7.015	0.005	1207.86	488.97	638.12	1205.68
1427	7.02	0.005	1208.64	489.43	638.73	1206.46
1428	7.025	0.005	1209.42	489.89	639.33	1207.25
1429	7.03	0.005	1210.20	490.35	639.94	1208.03
1430	7.035	0.005	1210.98	490.81	640.55	1208.82

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1431	7.04	0.005	1211.76	491.28	641.15	1209.60
1432	7.045	0.005	1212.54	491.74	641.76	1210.38
1433	7.05	0.005	1213.32	492.20	642.37	1211.17
1434	7.055	0.005	1214.10	492.67	642.98	1211.95
1435	7.06	0.005	1214.88	493.13	643.59	1212.73
1436	7.065	0.005	1215.66	493.60	644.19	1213.52
1437	7.07	0.005	1216.44	494.06	644.80	1214.30
1438	7.075	0.005	1217.22	494.52	645.41	1215.08
1439	7.08	0.005	1218.00	494.99	646.02	1215.86
1440	7.085	0.005	1218.78	495.45	646.63	1216.65
1441	7.09	0.005	1219.56	495.92	647.24	1217.43
1442	7.095	0.005	1220.34	496.38	647.85	1218.21
1443	7.1	0.005	1221.12	496.85	648.46	1219.00
1444	7.105	0.005	1221.90	497.32	649.07	1219.78
1445	7.11	0.005	1222.68	497.78	649.68	1220.56
1446	7.115	0.005	1223.46	498.25	650.29	1221.34
1447	7.12	0.005	1224.24	498.72	650.90	1222.13
1448	7.125	0.005	1225.02	499.18	651.51	1222.91
1449	7.13	0.005	1225.80	499.65	652.13	1223.69
1450	7.135	0.005	1226.58	500.12	652.74	1224.47
1451	7.14	0.005	1227.36	500.59	653.35	1225.25
1452	7.145	0.005	1228.14	501.05	653.96	1226.04
1453	7.15	0.005	1228.92	501.52	654.58	1226.82
1454	7.155	0.005	1229.69	501.99	655.19	1227.60
1455	7.16	0.005	1230.47	502.46	655.80	1228.38
1456	7.165	0.005	1231.25	502.93	656.42	1229.16
1457	7.17	0.005	1232.03	503.40	657.03	1229.94
1458	7.175	0.005	1232.81	503.87	657.64	1230.73
1459	7.18	0.005	1233.59	504.34	658.26	1231.51
1460	7.185	0.005	1234.37	504.81	658.87	1232.29
1461	7.19	0.005	1235.15	505.28	659.49	1233.07
1462	7.195	0.005	1235.92	505.75	660.10	1233.85
1463	7.2	0.005	1236.70	506.22	660.72	1234.63
1464	7.205	0.005	1237.48	506.69	661.33	1235.41
1465	7.21	0.005	1238.26	507.16	661.95	1236.19
1466	7.215	0.005	1239.04	507.63	662.56	1236.97
1467	7.22	0.005	1239.81	508.10	663.18	1237.76
1468	7.225	0.005	1240.59	508.58	663.80	1238.54
1469	7.23	0.005	1241.37	509.05	664.41	1239.32
1470	7.235	0.005	1242.15	509.52	665.03	1240.10
1471	7.24	0.005	1242.93	509.99	665.65	1240.88

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1472	7.245	0.005	1243.70	510.47	666.26	1241.66
1473	7.25	0.005	1244.48	510.94	666.88	1242.44
1474	7.255	0.005	1245.26	511.41	667.50	1243.22
1475	7.26	0.005	1246.04	511.89	668.12	1244.00
1476	7.265	0.005	1246.81	512.36	668.74	1244.78
1477	7.27	0.005	1247.59	512.83	669.35	1245.56
1478	7.275	0.005	1248.37	513.31	669.97	1246.34
1479	7.28	0.005	1249.14	513.78	670.59	1247.12
1480	7.285	0.005	1249.92	514.26	671.21	1247.90
1481	7.29	0.005	1250.70	514.73	671.83	1248.68
1482	7.295	0.005	1251.48	515.21	672.45	1249.46
1483	7.3	0.005	1252.25	515.68	673.07	1250.24
1484	7.305	0.005	1253.03	516.16	673.69	1251.02
1485	7.31	0.005	1253.81	516.64	674.31	1251.80
1486	7.315	0.005	1254.58	517.11	674.93	1252.58
1487	7.32	0.005	1255.36	517.59	675.55	1253.36
1488	7.325	0.005	1256.14	518.07	676.17	1254.13
1489	7.33	0.005	1256.91	518.54	676.80	1254.91
1490	7.335	0.005	1257.69	519.02	677.42	1255.69
1491	7.34	0.005	1258.46	519.50	678.04	1256.47
1492	7.345	0.005	1259.24	519.98	678.66	1257.25
1493	7.35	0.005	1260.02	520.45	679.28	1258.03
1494	7.355	0.005	1260.79	520.93	679.91	1258.81
1495	7.36	0.005	1261.57	521.41	680.53	1259.59
1496	7.365	0.005	1262.35	521.89	681.15	1260.37
1497	7.37	0.005	1263.12	522.37	681.78	1261.14
1498	7.375	0.005	1263.90	522.85	682.40	1261.92
1499	7.38	0.005	1264.67	523.33	683.02	1262.70
1500	7.385	0.005	1265.45	523.81	683.65	1263.48
1501	7.39	0.005	1266.22	524.29	684.27	1264.26
1502	7.395	0.005	1267.00	524.77	684.90	1265.04
1503	7.4	0.005	1267.78	525.25	685.52	1265.81
1504	7.405	0.005	1268.55	525.73	686.15	1266.59
1505	7.41	0.005	1269.33	526.21	686.77	1267.37
1506	7.415	0.005	1270.10	526.69	687.40	1268.15
1507	7.42	0.005	1270.88	527.17	688.02	1268.93
1508	7.425	0.005	1271.65	527.65	688.65	1269.70
1509	7.43	0.005	1272.43	528.13	689.27	1270.48
1510	7.435	0.005	1273.20	528.62	689.90	1271.26
1511	7.44	0.005	1273.98	529.10	690.53	1272.04
1512	7.445	0.005	1274.75	529.58	691.15	1272.81

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1513	7.45	0.005	1275.53	530.06	691.78	1273.59
1514	7.455	0.005	1276.30	530.55	692.41	1274.37
1515	7.46	0.005	1277.08	531.03	693.04	1275.15
1516	7.465	0.005	1277.85	531.51	693.66	1275.92
1517	7.47	0.005	1278.63	532.00	694.29	1276.70
1518	7.475	0.005	1279.40	532.48	694.92	1277.48
1519	7.48	0.005	1280.17	532.97	695.55	1278.25
1520	7.485	0.005	1280.95	533.45	696.18	1279.03
1521	7.49	0.005	1281.72	533.94	696.81	1279.81
1522	7.495	0.005	1282.50	534.42	697.43	1280.58
1523	7.5	0.005	1283.27	534.91	698.06	1281.36
1524	7.505	0.005	1284.05	535.39	698.69	1282.14
1525	7.51	0.005	1284.82	535.88	699.32	1282.91
1526	7.515	0.005	1285.59	536.36	699.95	1283.69
1527	7.52	0.005	1286.37	536.85	700.58	1284.47
1528	7.525	0.005	1287.14	537.33	701.21	1285.24
1529	7.53	0.005	1287.91	537.82	701.85	1286.02
1530	7.535	0.005	1288.69	538.31	702.48	1286.80
1531	7.54	0.005	1289.46	538.80	703.11	1287.57
1532	7.545	0.005	1290.24	539.28	703.74	1288.35
1533	7.55	0.005	1291.01	539.77	704.37	1289.12
1534	7.555	0.005	1291.78	540.26	705.00	1289.90
1535	7.56	0.005	1292.56	540.75	705.64	1290.67
1536	7.565	0.005	1293.33	541.23	706.27	1291.45
1537	7.57	0.005	1294.10	541.72	706.90	1292.23
1538	7.575	0.005	1294.88	542.21	707.53	1293.00
1539	7.58	0.005	1295.65	542.70	708.17	1293.78
1540	7.585	0.005	1296.42	543.19	708.80	1294.55
1541	7.59	0.005	1297.19	543.68	709.44	1295.33
1542	7.595	0.005	1297.97	544.17	710.07	1296.10
1543	7.6	0.005	1298.74	544.66	710.70	1296.88
1544	7.605	0.005	1299.51	545.15	711.34	1297.65
1545	7.61	0.005	1300.29	545.64	711.97	1298.43
1546	7.615	0.005	1301.06	546.13	712.61	1299.20
1547	7.62	0.005	1301.83	546.62	713.24	1299.98
1548	7.625	0.005	1302.60	547.11	713.88	1300.75
1549	7.63	0.005	1303.38	547.60	714.51	1301.53
1550	7.635	0.005	1304.15	548.09	715.15	1302.30
1551	7.64	0.005	1304.92	548.59	715.79	1303.08
1552	7.645	0.005	1305.69	549.08	716.42	1303.85
1553	7.65	0.005	1306.46	549.57	717.06	1304.63

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1554	7.655	0.005	1307.24	550.06	717.70	1305.40
1555	7.66	0.005	1308.01	550.55	718.33	1306.18
1556	7.665	0.005	1308.78	551.05	718.97	1306.95
1557	7.67	0.005	1309.55	551.54	719.61	1307.72
1558	7.675	0.005	1310.32	552.03	720.25	1308.50
1559	7.68	0.005	1311.10	552.53	720.88	1309.27
1560	7.685	0.005	1311.87	553.02	721.52	1310.05
1561	7.69	0.005	1312.64	553.51	722.16	1310.82
1562	7.695	0.005	1313.41	554.01	722.80	1311.59
1563	7.7	0.005	1314.18	554.50	723.44	1312.37
1564	7.705	0.005	1314.95	555.00	724.08	1313.14
1565	7.71	0.005	1315.72	555.49	724.72	1313.92
1566	7.715	0.005	1316.50	555.99	725.36	1314.69
1567	7.72	0.005	1317.27	556.48	726.00	1315.46
1568	7.725	0.005	1318.04	556.98	726.64	1316.24
1569	7.73	0.005	1318.81	557.48	727.28	1317.01
1570	7.735	0.005	1319.58	557.97	727.92	1317.78
1571	7.74	0.005	1320.35	558.47	728.56	1318.56
1572	7.745	0.005	1321.12	558.96	729.20	1319.33
1573	7.75	0.005	1321.89	559.46	729.84	1320.10
1574	7.755	0.005	1322.66	559.96	730.48	1320.87
1575	7.76	0.005	1323.43	560.46	731.12	1321.65
1576	7.765	0.005	1324.21	560.95	731.77	1322.42
1577	7.77	0.005	1324.98	561.45	732.41	1323.19
1578	7.775	0.005	1325.75	561.95	733.05	1323.97
1579	7.78	0.005	1326.52	562.45	733.69	1324.74
1580	7.785	0.005	1327.29	562.94	734.34	1325.51
1581	7.79	0.005	1328.06	563.44	734.98	1326.28
1582	7.795	0.005	1328.83	563.94	735.62	1327.06
1583	7.8	0.005	1329.60	564.44	736.27	1327.83
1584	7.805	0.005	1330.37	564.94	736.91	1328.60
1585	7.81	0.005	1331.14	565.44	737.55	1329.37
1586	7.815	0.005	1331.91	565.94	738.20	1330.15
1587	7.82	0.005	1332.68	566.44	738.84	1330.92
1588	7.825	0.005	1333.45	566.94	739.49	1331.69
1589	7.83	0.005	1334.22	567.44	740.13	1332.46
1590	7.835	0.005	1334.99	567.94	740.78	1333.23
1591	7.84	0.005	1335.76	568.44	741.42	1334.01
1592	7.845	0.005	1336.53	568.94	742.07	1334.78
1593	7.85	0.005	1337.30	569.44	742.72	1335.55
1594	7.855	0.005	1338.06	569.95	743.36	1336.32

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1595	7.86	0.005	1338.83	570.45	744.01	1337.09
1596	7.865	0.005	1339.60	570.95	744.65	1337.86
1597	7.87	0.005	1340.37	571.45	745.30	1338.64
1598	7.875	0.005	1341.14	571.95	745.95	1339.41
1599	7.88	0.005	1341.91	572.46	746.59	1340.18
1600	7.885	0.005	1342.68	572.96	747.24	1340.95
1601	7.89	0.005	1343.45	573.46	747.89	1341.72
1602	7.895	0.005	1344.22	573.97	748.54	1342.49
1603	7.9	0.005	1344.99	574.47	749.19	1343.26
1604	7.905	0.005	1345.76	574.97	749.83	1344.03
1605	7.91	0.005	1346.52	575.48	750.48	1344.80
1606	7.915	0.005	1347.29	575.98	751.13	1345.57
1607	7.92	0.005	1348.06	576.49	751.78	1346.35
1608	7.925	0.005	1348.83	576.99	752.43	1347.12
1609	7.93	0.005	1349.60	577.50	753.08	1347.89
1610	7.935	0.005	1350.37	578.00	753.73	1348.66
1611	7.94	0.005	1351.14	578.51	754.38	1349.43
1612	7.945	0.005	1351.90	579.01	755.03	1350.20
1613	7.95	0.005	1352.67	579.52	755.68	1350.97
1614	7.955	0.005	1353.44	580.02	756.33	1351.74
1615	7.96	0.005	1354.21	580.53	756.98	1352.51
1616	7.965	0.005	1354.98	581.04	757.63	1353.28
1617	7.97	0.005	1355.74	581.54	758.28	1354.05
1618	7.975	0.005	1356.51	582.05	758.93	1354.82
1619	7.98	0.005	1357.28	582.56	759.58	1355.59
1620	7.985	0.005	1358.05	583.06	760.24	1356.36
1621	7.99	0.005	1358.81	583.57	760.89	1357.13
1622	7.995	0.005	1359.58	584.08	761.54	1357.90
1623	8	0.005	1360.35	584.59	762.19	1358.67
1624	8.005	0.005	1361.12	585.10	762.85	1359.44
1625	8.01	0.005	1361.88	585.60	763.50	1360.21
1626	8.015	0.005	1362.65	586.11	764.15	1360.98
1627	8.02	0.005	1363.42	586.62	764.81	1361.75
1628	8.025	0.005	1364.19	587.13	765.46	1362.52
1629	8.03	0.005	1364.95	587.64	766.11	1363.28
1630	8.035	0.005	1365.72	588.15	766.77	1364.05
1631	8.04	0.005	1366.49	588.66	767.42	1364.82
1632	8.045	0.005	1367.26	589.17	768.08	1365.59
1633	8.05	0.005	1368.02	589.68	768.73	1366.36
1634	8.055	0.005	1368.79	590.19	769.38	1367.13
1635	8.06	0.005	1369.56	590.70	770.04	1367.90

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1636	8.065	0.005	1370.32	591.21	770.70	1368.67
1637	8.07	0.005	1371.09	591.72	771.35	1369.44
1638	8.075	0.005	1371.86	592.23	772.01	1370.20
1639	8.08	0.005	1372.62	592.75	772.66	1370.97
1640	8.085	0.005	1373.39	593.26	773.32	1371.74
1641	8.09	0.005	1374.16	593.77	773.97	1372.51
1642	8.095	0.005	1374.92	594.28	774.63	1373.28
1643	8.1	0.005	1375.69	594.79	775.29	1374.05
1644	8.105	0.005	1376.45	595.31	775.94	1374.82
1645	8.11	0.005	1377.22	595.82	776.60	1375.58
1646	8.115	0.005	1377.99	596.33	777.26	1376.35
1647	8.12	0.005	1378.75	596.85	777.92	1377.12
1648	8.125	0.005	1379.52	597.36	778.57	1377.89
1649	8.13	0.005	1380.28	597.87	779.23	1378.66
1650	8.135	0.005	1381.05	598.39	779.89	1379.42
1651	8.14	0.005	1381.82	598.90	780.55	1380.19
1652	8.145	0.005	1382.58	599.42	781.21	1380.96
1653	8.15	0.005	1383.35	599.93	781.87	1381.73
1654	8.155	0.005	1384.11	600.44	782.53	1382.49
1655	8.16	0.005	1384.88	600.96	783.19	1383.26
1656	8.165	0.005	1385.64	601.47	783.84	1384.03
1657	8.17	0.005	1386.41	601.99	784.50	1384.80
1658	8.175	0.005	1387.17	602.51	785.16	1385.56
1659	8.18	0.005	1387.94	603.02	785.82	1386.33
1660	8.185	0.005	1388.70	603.54	786.48	1387.10
1661	8.19	0.005	1389.47	604.05	787.15	1387.86
1662	8.195	0.005	1390.23	604.57	787.81	1388.63
1663	8.2	0.005	1391.00	605.09	788.47	1389.40
1664	8.205	0.005	1391.76	605.60	789.13	1390.17
1665	8.21	0.005	1392.53	606.12	789.79	1390.93
1666	8.215	0.005	1393.29	606.64	790.45	1391.70
1667	8.22	0.005	1394.06	607.16	791.11	1392.47
1668	8.225	0.005	1394.82	607.67	791.78	1393.23
1669	8.23	0.005	1395.59	608.19	792.44	1394.00
1670	8.235	0.005	1396.35	608.71	793.10	1394.77
1671	8.24	0.005	1397.12	609.23	793.76	1395.53
1672	8.245	0.005	1397.88	609.75	794.43	1396.30
1673	8.25	0.005	1398.65	610.27	795.09	1397.06
1674	8.255	0.005	1399.41	610.79	795.75	1397.83
1675	8.26	0.005	1400.17	611.30	796.41	1398.60
1676	8.265	0.005	1400.94	611.82	797.08	1399.36

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1677	8.27	0.005	1401.70	612.34	797.74	1400.13
1678	8.275	0.005	1402.47	612.86	798.41	1400.89
1679	8.28	0.005	1403.23	613.38	799.07	1401.66
1680	8.285	0.005	1404.00	613.90	799.73	1402.43
1681	8.29	0.005	1404.76	614.42	800.40	1403.19
1682	8.295	0.005	1405.52	614.95	801.06	1403.96
1683	8.3	0.005	1406.29	615.47	801.73	1404.72
1684	8.305	0.005	1407.05	615.99	802.39	1405.49
1685	8.31	0.005	1407.81	616.51	803.06	1406.25
1686	8.315	0.005	1408.58	617.03	803.73	1407.02
1687	8.32	0.005	1409.34	617.55	804.39	1407.79
1688	8.325	0.005	1410.10	618.07	805.06	1408.55
1689	8.33	0.005	1410.87	618.60	805.72	1409.32
1690	8.335	0.005	1411.63	619.12	806.39	1410.08
1691	8.34	0.005	1412.39	619.64	807.06	1410.85
1692	8.345	0.005	1413.16	620.17	807.72	1411.61
1693	8.35	0.005	1413.92	620.69	808.39	1412.38
1694	8.355	0.005	1414.68	621.21	809.06	1413.14
1695	8.36	0.005	1415.45	621.74	809.73	1413.91
1696	8.365	0.005	1416.21	622.26	810.39	1414.67
1697	8.37	0.005	1416.97	622.78	811.06	1415.44
1698	8.375	0.005	1417.74	623.31	811.73	1416.20
1699	8.38	0.005	1418.50	623.83	812.40	1416.96
1700	8.385	0.005	1419.26	624.36	813.07	1417.73
1701	8.39	0.005	1420.02	624.88	813.73	1418.49
1702	8.395	0.005	1420.79	625.41	814.40	1419.26
1703	8.4	0.005	1421.55	625.93	815.07	1420.02
1704	8.405	0.005	1422.31	626.46	815.74	1420.79
1705	8.41	0.005	1423.07	626.98	816.41	1421.55
1706	8.415	0.005	1423.84	627.51	817.08	1422.32
1707	8.42	0.005	1424.60	628.03	817.75	1423.08
1708	8.425	0.005	1425.36	628.56	818.42	1423.84
1709	8.43	0.005	1426.12	629.09	819.09	1424.61
1710	8.435	0.005	1426.88	629.61	819.76	1425.37
1711	8.44	0.005	1427.65	630.14	820.43	1426.13
1712	8.445	0.005	1428.41	630.67	821.10	1426.90
1713	8.45	0.005	1429.17	631.19	821.77	1427.66
1714	8.455	0.005	1429.93	631.72	822.45	1428.43
1715	8.46	0.005	1430.69	632.25	823.12	1429.19
1716	8.465	0.005	1431.46	632.78	823.79	1429.95
1717	8.47	0.005	1432.22	633.31	824.46	1430.72

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1718	8.475	0.005	1432.98	633.83	825.13	1431.48
1719	8.48	0.005	1433.74	634.36	825.80	1432.24
1720	8.485	0.005	1434.50	634.89	826.48	1433.01
1721	8.49	0.005	1435.26	635.42	827.15	1433.77
1722	8.495	0.005	1436.02	635.95	827.82	1434.53
1723	8.5	0.005	1436.79	636.48	828.49	1435.30
1724	8.505	0.005	1437.55	637.01	829.17	1436.06
1725	8.51	0.005	1438.31	637.54	829.84	1436.82
1726	8.515	0.005	1439.07	638.07	830.51	1437.58
1727	8.52	0.005	1439.83	638.60	831.19	1438.35
1728	8.525	0.005	1440.59	639.13	831.86	1439.11
1729	8.53	0.005	1441.35	639.66	832.54	1439.87
1730	8.535	0.005	1442.11	640.19	833.21	1440.63
1731	8.54	0.005	1442.87	640.72	833.89	1441.40
1732	8.545	0.005	1443.63	641.25	834.56	1442.16
1733	8.55	0.005	1444.40	641.78	835.24	1442.92
1734	8.555	0.005	1445.16	642.32	835.91	1443.68
1735	8.56	0.005	1445.92	642.85	836.59	1444.45
1736	8.565	0.005	1446.68	643.38	837.26	1445.21
1737	8.57	0.005	1447.44	643.91	837.94	1445.97
1738	8.575	0.005	1448.20	644.44	838.61	1446.73
1739	8.58	0.005	1448.96	644.98	839.29	1447.50
1740	8.585	0.005	1449.72	645.51	839.96	1448.26
1741	8.59	0.005	1450.48	646.04	840.64	1449.02
1742	8.595	0.005	1451.24	646.58	841.32	1449.78
1743	8.6	0.005	1452.00	647.11	841.99	1450.54
1744	8.605	0.005	1452.76	647.64	842.67	1451.30
1745	8.61	0.005	1453.52	648.18	843.35	1452.07
1746	8.615	0.005	1454.28	648.71	844.03	1452.83
1747	8.62	0.005	1455.04	649.25	844.70	1453.59
1748	8.625	0.005	1455.80	649.78	845.38	1454.35
1749	8.63	0.005	1456.56	650.31	846.06	1455.11
1750	8.635	0.005	1457.32	650.85	846.74	1455.87
1751	8.64	0.005	1458.08	651.38	847.42	1456.63
1752	8.645	0.005	1458.84	651.92	848.09	1457.40
1753	8.65	0.005	1459.60	652.46	848.77	1458.16
1754	8.655	0.005	1460.35	652.99	849.45	1458.92
1755	8.66	0.005	1461.11	653.53	850.13	1459.68
1756	8.665	0.005	1461.87	654.06	850.81	1460.44
1757	8.67	0.005	1462.63	654.60	851.49	1461.20
1758	8.675	0.005	1463.39	655.14	852.17	1461.96

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1759	8.68	0.005	1464.15	655.67	852.85	1462.72
1760	8.685	0.005	1464.91	656.21	853.53	1463.48
1761	8.69	0.005	1465.67	656.75	854.21	1464.24
1762	8.695	0.005	1466.43	657.28	854.89	1465.00
1763	8.7	0.005	1467.19	657.82	855.57	1465.76
1764	8.705	0.005	1467.95	658.36	856.25	1466.52
1765	8.71	0.005	1468.70	658.90	856.93	1467.28
1766	8.715	0.005	1469.46	659.44	857.61	1468.05
1767	8.72	0.005	1470.22	659.97	858.29	1468.81
1768	8.725	0.005	1470.98	660.51	858.97	1469.57
1769	8.73	0.005	1471.74	661.05	859.66	1470.33
1770	8.735	0.005	1472.50	661.59	860.34	1471.09
1771	8.74	0.005	1473.25	662.13	861.02	1471.85
1772	8.745	0.005	1474.01	662.67	861.70	1472.61
1773	8.75	0.005	1474.77	663.21	862.38	1473.37
1774	8.755	0.005	1475.53	663.75	863.07	1474.13
1775	8.76	0.005	1476.29	664.29	863.75	1474.88
1776	8.765	0.005	1477.05	664.83	864.43	1475.64
1777	8.77	0.005	1477.80	665.37	865.12	1476.40
1778	8.775	0.005	1478.56	665.91	865.80	1477.16
1779	8.78	0.005	1479.32	666.45	866.48	1477.92
1780	8.785	0.005	1480.08	666.99	867.17	1478.68
1781	8.79	0.005	1480.84	667.53	867.85	1479.44
1782	8.795	0.005	1481.59	668.07	868.53	1480.20
1783	8.8	0.005	1482.35	668.61	869.22	1480.96
1784	8.805	0.005	1483.11	669.16	869.90	1481.72
1785	8.81	0.005	1483.87	669.70	870.59	1482.48
1786	8.815	0.005	1484.62	670.24	871.27	1483.24
1787	8.82	0.005	1485.38	670.78	871.96	1484.00
1788	8.825	0.005	1486.14	671.32	872.64	1484.76
1789	8.83	0.005	1486.89	671.87	873.33	1485.51
1790	8.835	0.005	1487.65	672.41	874.01	1486.27
1791	8.84	0.005	1488.41	672.95	874.70	1487.03
1792	8.845	0.005	1489.17	673.50	875.38	1487.79
1793	8.85	0.005	1489.92	674.04	876.07	1488.55
1794	8.855	0.005	1490.68	674.58	876.76	1489.31
1795	8.86	0.005	1491.44	675.13	877.44	1490.07
1796	8.865	0.005	1492.19	675.67	878.13	1490.82
1797	8.87	0.005	1492.95	676.22	878.82	1491.58
1798	8.875	0.005	1493.71	676.76	879.50	1492.34
1799	8.88	0.005	1494.46	677.30	880.19	1493.10

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1800	8.885	0.005	1495.22	677.85	880.88	1493.86
1801	8.89	0.005	1495.98	678.39	881.56	1494.62
1802	8.895	0.005	1496.73	678.94	882.25	1495.37
1803	8.9	0.005	1497.49	679.49	882.94	1496.13
1804	8.905	0.005	1498.25	680.03	883.63	1496.89
1805	8.91	0.005	1499.00	680.58	884.32	1497.65
1806	8.915	0.005	1499.76	681.12	885.00	1498.41
1807	8.92	0.005	1500.52	681.67	885.69	1499.16
1808	8.925	0.005	1501.27	682.22	886.38	1499.92
1809	8.93	0.005	1502.03	682.76	887.07	1500.68
1810	8.935	0.005	1502.78	683.31	887.76	1501.44
1811	8.94	0.005	1503.54	683.86	888.45	1502.19
1812	8.945	0.005	1504.28	684.40	889.14	1502.95
1813	8.95	0.005	1505.02	684.95	889.83	1503.67
1814	8.955	0.005	1505.75	685.50	890.52	1504.37
1815	8.96	0.005	1506.48	686.05	891.21	1505.06
1816	8.965	0.005	1507.19	686.59	891.90	1505.74
1817	8.97	0.005	1507.90	687.14	892.59	1506.42
1818	8.975	0.005	1508.60	687.69	893.28	1507.09
1819	8.98	0.005	1509.30	688.24	893.97	1507.75
1820	8.985	0.005	1510.00	688.79	894.66	1508.41
1821	8.99	0.005	1510.69	689.34	895.35	1509.08
1822	8.995	0.005	1511.39	689.88	896.04	1509.76
1823	9	0.005	1512.08	690.43	896.73	1510.44
1824	9.005	0.005	1512.77	690.98	897.42	1511.13
1825	9.01	0.005	1513.46	691.53	898.11	1511.82
1826	9.015	0.005	1514.15	692.08	898.80	1512.50
1827	9.02	0.005	1514.83	692.63	899.49	1513.19
1828	9.025	0.005	1515.52	693.18	900.18	1513.87
1829	9.03	0.005	1516.21	693.73	900.87	1514.56
1830	9.035	0.005	1516.89	694.28	901.57	1515.24
1831	9.04	0.005	1517.58	694.83	902.26	1515.92
1832	9.045	0.005	1518.26	695.38	902.95	1516.61
1833	9.05	0.005	1518.95	695.93	903.64	1517.29
1834	9.055	0.005	1519.63	696.48	904.33	1517.97
1835	9.06	0.005	1520.31	697.03	905.02	1518.65
1836	9.065	0.005	1520.99	697.58	905.72	1519.33
1837	9.07	0.005	1521.67	698.14	906.41	1520.01
1838	9.075	0.005	1522.35	698.69	907.10	1520.69
1839	9.08	0.005	1523.03	699.24	907.79	1521.36
1840	9.085	0.005	1523.71	699.79	908.48	1522.04

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1841	9.09	0.005	1524.39	700.34	909.18	1522.71
1842	9.095	0.005	1525.06	700.89	909.87	1523.39
1843	9.1	0.005	1525.74	701.45	910.56	1524.06
1844	9.105	0.005	1526.41	702.00	911.25	1524.74
1845	9.11	0.005	1527.09	702.55	911.95	1525.41
1846	9.115	0.005	1527.76	703.10	912.64	1526.08
1847	9.12	0.005	1528.43	703.66	913.33	1526.75
1848	9.125	0.005	1529.11	704.21	914.02	1527.43
1849	9.13	0.005	1529.78	704.76	914.72	1528.10
1850	9.135	0.005	1530.45	705.31	915.41	1528.77
1851	9.14	0.005	1531.12	705.87	916.10	1529.43
1852	9.145	0.005	1531.79	706.42	916.80	1530.10
1853	9.15	0.005	1532.46	706.98	917.49	1530.77
1854	9.155	0.005	1533.13	707.53	918.18	1531.44
1855	9.16	0.005	1533.79	708.08	918.88	1532.10
1856	9.165	0.005	1534.46	708.64	919.57	1532.77
1857	9.17	0.005	1535.13	709.19	920.26	1533.43
1858	9.175	0.005	1535.79	709.75	920.96	1534.10
1859	9.18	0.005	1536.46	710.30	921.65	1534.76
1860	9.185	0.005	1537.12	710.85	922.35	1535.42
1861	9.19	0.005	1537.78	711.41	923.04	1536.08
1862	9.195	0.005	1538.45	711.96	923.73	1536.74
1863	9.2	0.005	1539.11	712.52	924.43	1537.41
1864	9.205	0.005	1539.77	713.07	925.12	1538.07
1865	9.21	0.005	1540.43	713.63	925.82	1538.72
1866	9.215	0.005	1541.09	714.18	926.51	1539.38
1867	9.22	0.005	1541.75	714.74	927.20	1540.04
1868	9.225	0.005	1542.41	715.30	927.90	1540.70
1869	9.23	0.005	1543.07	715.85	928.59	1541.35
1870	9.235	0.005	1543.72	716.41	929.29	1542.01
1871	9.24	0.005	1544.38	716.96	929.98	1542.67
1872	9.245	0.005	1545.04	717.52	930.68	1543.32
1873	9.25	0.005	1545.69	718.08	931.37	1543.97
1874	9.255	0.005	1546.35	718.63	932.06	1544.63
1875	9.26	0.005	1547.00	719.19	932.76	1545.28
1876	9.265	0.005	1547.66	719.75	933.45	1545.94
1877	9.27	0.005	1548.31	720.30	934.15	1546.59
1878	9.275	0.005	1548.97	720.86	934.84	1547.25
1879	9.28	0.005	1549.62	721.42	935.54	1547.90
1880	9.285	0.005	1550.28	721.97	936.23	1548.56
1881	9.29	0.005	1550.93	722.53	936.93	1549.21

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1882	9.295	0.005	1551.58	723.09	937.62	1549.87
1883	9.3	0.005	1552.24	723.65	938.32	1550.52
1884	9.305	0.005	1552.89	724.21	939.01	1551.18
1885	9.31	0.005	1553.54	724.76	939.71	1551.83
1886	9.315	0.005	1554.20	725.32	940.40	1552.48
1887	9.32	0.005	1554.85	725.88	941.10	1553.14
1888	9.325	0.005	1555.50	726.44	941.80	1553.79
1889	9.33	0.005	1556.15	727.00	942.49	1554.44
1890	9.335	0.005	1556.81	727.55	943.19	1555.10
1891	9.34	0.005	1557.46	728.11	943.88	1555.75
1892	9.345	0.005	1558.11	728.67	944.58	1556.40
1893	9.35	0.005	1558.76	729.23	945.27	1557.06
1894	9.355	0.005	1559.41	729.79	945.97	1557.71
1895	9.36	0.005	1560.06	730.35	946.66	1558.36
1896	9.365	0.005	1560.71	730.91	947.36	1559.01
1897	9.37	0.005	1561.36	731.47	948.06	1559.66
1898	9.375	0.005	1562.01	732.03	948.75	1560.31
1899	9.38	0.005	1562.67	732.59	949.45	1560.97
1900	9.385	0.005	1563.32	733.15	950.14	1561.62
1901	9.39	0.005	1563.97	733.71	950.84	1562.27
1902	9.395	0.005	1564.61	734.27	951.54	1562.92
1903	9.4	0.005	1565.26	734.83	952.23	1563.57
1904	9.405	0.005	1565.91	735.39	952.93	1564.22
1905	9.41	0.005	1566.56	735.95	953.62	1564.87
1906	9.415	0.005	1567.21	736.51	954.32	1565.52
1907	9.42	0.005	1567.86	737.07	955.02	1566.17
1908	9.425	0.005	1568.51	737.63	955.71	1566.82
1909	9.43	0.005	1569.16	738.19	956.41	1567.47
1910	9.435	0.005	1569.81	738.75	957.11	1568.12
1911	9.44	0.005	1570.45	739.32	957.80	1568.76
1912	9.445	0.005	1571.10	739.88	958.50	1569.41
1913	9.45	0.005	1571.75	740.44	959.20	1570.06
1914	9.455	0.005	1572.40	741.00	959.89	1570.71
1915	9.46	0.005	1573.04	741.56	960.59	1571.36
1916	9.465	0.005	1573.69	742.12	961.29	1572.00
1917	9.47	0.005	1574.34	742.69	961.98	1572.65
1918	9.475	0.005	1574.98	743.25	962.68	1573.30
1919	9.48	0.005	1575.63	743.81	963.38	1573.95
1920	9.485	0.005	1576.28	744.37	964.07	1574.59
1921	9.49	0.005	1576.92	744.94	964.77	1575.24
1922	9.495	0.005	1577.57	745.50	965.47	1575.89

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1923	9.5	0.005	1578.21	746.06	966.16	1576.53
1924	9.505	0.005	1578.86	746.62	966.86	1577.18
1925	9.51	0.005	1579.50	747.19	967.56	1577.83
1926	9.515	0.005	1580.15	747.75	968.26	1578.47
1927	9.52	0.005	1580.79	748.31	968.95	1579.12
1928	9.525	0.005	1581.44	748.88	969.65	1579.76
1929	9.53	0.005	1582.08	749.44	970.35	1580.41
1930	9.535	0.005	1582.72	750.00	971.05	1581.05
1931	9.54	0.005	1583.36	750.57	971.74	1581.69
1932	9.545	0.005	1584.01	751.13	972.44	1582.33
1933	9.55	0.005	1584.65	751.70	973.14	1582.97
1934	9.555	0.005	1585.29	752.26	973.84	1583.61
1935	9.56	0.005	1585.93	752.83	974.53	1584.25
1936	9.565	0.005	1586.57	753.39	975.23	1584.89
1937	9.57	0.005	1587.20	753.95	975.93	1585.52
1938	9.575	0.005	1587.84	754.52	976.63	1586.16
1939	9.58	0.005	1588.48	755.08	977.32	1586.79
1940	9.585	0.005	1589.11	755.65	978.02	1587.43
1941	9.59	0.005	1589.75	756.21	978.72	1588.06
1942	9.595	0.005	1590.38	756.78	979.42	1588.69
1943	9.6	0.005	1591.02	757.34	980.11	1589.33
1944	9.605	0.005	1591.65	757.91	980.81	1589.96
1945	9.61	0.005	1592.28	758.47	981.51	1590.59
1946	9.615	0.005	1592.91	759.04	982.21	1591.22
1947	9.62	0.005	1593.54	759.61	982.91	1591.85
1948	9.625	0.005	1594.17	760.17	983.60	1592.48
1949	9.63	0.005	1594.80	760.74	984.30	1593.11
1950	9.635	0.005	1595.43	761.30	985.00	1593.73
1951	9.64	0.005	1596.06	761.87	985.70	1594.36
1952	9.645	0.005	1596.69	762.44	986.40	1594.99
1953	9.65	0.005	1597.31	763.00	987.09	1595.61
1954	9.655	0.005	1597.94	763.57	987.79	1596.24
1955	9.66	0.005	1598.57	764.14	988.49	1596.86
1956	9.665	0.005	1599.19	764.70	989.19	1597.48
1957	9.67	0.005	1599.81	765.27	989.89	1598.11
1958	9.675	0.005	1600.44	765.84	990.58	1598.73
1959	9.68	0.005	1601.06	766.40	991.28	1599.35
1960	9.685	0.005	1601.68	766.97	991.98	1599.97
1961	9.69	0.005	1602.30	767.54	992.68	1600.59
1962	9.695	0.005	1602.92	768.10	993.38	1601.21
1963	9.7	0.005	1603.55	768.67	994.07	1601.83

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1964	9.705	0.005	1604.16	769.24	994.77	1602.45
1965	9.71	0.005	1604.78	769.81	995.47	1603.07
1966	9.715	0.005	1605.40	770.38	996.17	1603.68
1967	9.72	0.005	1606.02	770.94	996.87	1604.30
1968	9.725	0.005	1606.64	771.51	997.57	1604.92
1969	9.73	0.005	1607.25	772.08	998.26	1605.53
1970	9.735	0.005	1607.87	772.65	998.96	1606.14
1971	9.74	0.005	1608.48	773.22	999.66	1606.76
1972	9.745	0.005	1609.10	773.78	1000.36	1607.37
1973	9.75	0.005	1609.71	774.35	1001.06	1607.98
1974	9.755	0.005	1610.32	774.92	1001.76	1608.60
1975	9.76	0.005	1610.94	775.49	1002.45	1609.21
1976	9.765	0.005	1611.55	776.06	1003.15	1609.82
1977	9.77	0.005	1612.16	776.63	1003.85	1610.43
1978	9.775	0.005	1612.77	777.20	1004.55	1611.04
1979	9.78	0.005	1613.38	777.77	1005.25	1611.65
1980	9.785	0.005	1613.99	778.33	1005.95	1612.25
1981	9.79	0.005	1614.60	778.90	1006.64	1612.86
1982	9.795	0.005	1615.20	779.47	1007.34	1613.47
1983	9.8	0.005	1615.81	780.04	1008.04	1614.08
1984	9.805	0.005	1616.42	780.61	1008.74	1614.68
1985	9.81	0.005	1617.03	781.18	1009.44	1615.29
1986	9.815	0.005	1617.63	781.75	1010.14	1615.89
1987	9.82	0.005	1618.24	782.32	1010.83	1616.50
1988	9.825	0.005	1618.84	782.89	1011.53	1617.10
1989	9.83	0.005	1619.45	783.46	1012.23	1617.71
1990	9.835	0.005	1620.06	784.03	1012.93	1618.31
1991	9.84	0.005	1620.66	784.60	1013.63	1618.92
1992	9.845	0.005	1621.27	785.17	1014.33	1619.53
1993	9.85	0.005	1621.87	785.74	1015.02	1620.13
1994	9.855	0.005	1622.48	786.31	1015.72	1620.74
1995	9.86	0.005	1623.08	786.88	1016.42	1621.35
1996	9.865	0.005	1623.69	787.45	1017.12	1621.95
1997	9.87	0.005	1624.29	788.02	1017.82	1622.56
1998	9.875	0.005	1624.90	788.60	1018.52	1623.16
1999	9.88	0.005	1625.50	789.17	1019.21	1623.77
2000	9.885	0.005	1626.11	789.74	1019.91	1624.38
2001	9.89	0.005	1626.71	790.31	1020.61	1624.98
2002	9.895	0.005	1627.31	790.88	1021.31	1625.59
2003	9.9	0.005	1627.92	791.45	1022.01	1626.19
2004	9.905	0.005	1628.52	792.02	1022.70	1626.80

Attachment 1

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
2005	9.91	0.005	1629.13	792.59	1023.40	1627.40
2006	9.915	0.005	1629.73	793.17	1024.10	1628.01
2007	9.92	0.005	1630.34	793.74	1024.80	1628.62
2008	9.925	0.005	1630.94	794.31	1025.50	1629.22
2009	9.93	0.005	1631.54	794.88	1026.20	1629.83
2010	9.935	0.005	1632.15	795.45	1026.89	1630.43
2011	9.94	0.005	1632.75	796.03	1027.59	1631.04
2012	9.945	0.005	1633.35	796.60	1028.29	1631.64
2013	9.95	0.005	1633.96	797.17	1028.99	1632.25
2014	9.955	0.005	1634.56	797.74	1029.69	1632.85
2015	9.96	0.005	1635.17	798.31	1030.38	1633.45
2016	9.965	0.005	1635.77	798.89	1031.08	1634.06
2017	9.97	0.005	1636.37	799.46	1031.78	1634.66
2018	9.975	0.005	1636.97	800.03	1032.48	1635.27
2019	9.98	0.005	1637.58	800.60	1033.18	1635.87
2020	9.985	0.005	1638.18	801.18	1033.88	1636.48
2021	9.99	0.005	1638.78	801.75	1034.57	1637.08
2022	9.995	0.005	1639.39	802.32	1035.27	1637.68
2023	10	0.005	1639.99	802.90	1035.97	1638.29

	G	H	I	J	K
1			Zircaloy Specific Heat (Table 4-2 NUREG/CR-6150)		
2			Temp K	Temp F	Cp (J/kg*K)
3			300	80.33	281
4			400	260.33	302
5			640	692.33	331
6			1090	1502.33	375
7			1093	1507.73	502
8			1113	1543.73	590
9			1133	1579.73	615
10			1153	1615.73	719
11					
12			1173	1651.73	816
13			1193	1687.73	770
14			1213	1723.73	619
15			1233	1759.73	469
16			1248	1786.73	356
17					
18					
19	X=G23+P23	$x=(X24*\$B\$11*(C24-D24))/\$B\9	$x=(AA24*\$B\$12*(C24-E24))/\$B\10	$x=(\$B\$13*\$B\$14*\$B\$15*((C24+460)^(4)-(F24+460)^(4)))$	$x=IF(AJ24<833,\$B\$13*\$B\$14*\$B\$15*((F24+460)^(4)-(G24+460)^(4)),0)$
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
23	120	0	0	0	0
24	120.00	0.085857248	0.253484465	13.14852678	0
25	120.00	0.171440278	0.506068055	26.08796679	0.250543556
26	120.00	0.256752564	0.757761591	38.8271983	0.740141554
27	120.00	0.341797459	1.008575521	51.37463597	1.45788756
28	120.00	0.4265782	1.258519948	63.73825888	2.393423657
29	120.00	0.511097912	1.507604643	75.9256366	3.536908608
30	120.01	0.595359617	1.75583906	87.94395342	4.878988151
31	120.01	0.679366237	2.003232352	99.80003091	6.410767263
32	120.02	0.763120598	2.249793387	111.5003489	8.123784252
33	120.03	0.846625435	2.495530761	123.0510652	10.00998652
34	120.04	0.9298834	2.740452807	134.4580337	12.0617079
35	120.05	1.012897058	2.984567614	145.7268214	14.2716474
36	120.06	1.0956689	3.22788303	156.8627246	16.63284932

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
37	120.08	1.178201339	3.47040668	167.8707836	19.13868459
38	120.10	1.260496719	3.712145972	178.7557967	21.78283326
39	120.12	1.342557313	3.953108107	189.5223333	24.55926803
40	120.14	1.424385331	4.193300091	200.1747461	27.46223886
41	120.17	1.50598292	4.432728738	210.7171826	30.48625838
42	120.19	1.587352167	4.671400685	221.153596	33.62608826
43	120.23	1.668495103	4.909322394	231.4877548	36.87672633
44	120.26	1.749413703	5.146500162	241.7232532	40.23339448
45	120.30	1.830109891	5.382940127	251.8635193	43.69152723
46	120.34	1.91058554	5.618648277	261.9118237	47.24676098
47	120.39	1.990842475	5.853630451	271.8712875	50.89492383
48	120.44	2.070882477	6.087892352	281.7448897	54.63202603
49	120.49	2.150707281	6.321439546	291.5354745	58.45425089
50	120.54	2.230318579	6.554277472	301.2457572	62.35794624
51	120.60	2.309718025	6.786411446	310.8783314	66.33961636
52	120.67	2.388907232	7.017846664	320.4356741	70.39591433
53	120.73	2.467887778	7.248588209	329.9201517	74.52363478
54	120.80	2.546661201	7.478641053	339.3340254	78.71970706
55	120.88	2.62522901	7.708010066	348.6794556	82.98118874
56	120.96	2.703592676	7.936700013	357.9585071	87.3052595
57	121.04	2.781753641	8.164715564	367.1731537	91.68921526
58	121.13	2.859713315	8.392061294	376.3252816	96.13046272
59	121.22	2.937473081	8.61874169	385.4166946	100.6265141
60	121.32	3.01503429	8.844761149	394.4491168	105.174982
61	121.42	3.092398269	9.070123988	403.4241967	109.7735752
62	121.52	3.169566318	9.29483444	412.3435107	114.4200936
63	121.63	3.246539709	9.518896663	421.2085662	119.1124242
64	121.74	3.323319695	9.742314738	430.0208044	123.8485371
65	121.86	3.399907501	9.965092677	438.7816039	128.6264817
66	121.99	3.476304331	10.18723442	447.4922827	133.4443829
67	122.11	3.552511369	10.40874384	456.1541014	138.3004378
68	122.24	3.628529774	10.62962474	464.7682653	143.1929123
69	122.38	3.70436069	10.84988088	473.3359272	148.1201378
70	122.52	3.780005237	11.06951593	481.8581892	153.0805086
71	122.67	3.855464519	11.28853353	490.3361055	158.0724788
72	122.82	3.930739621	11.50693725	498.7706836	163.0945595
73	122.97	4.00583161	11.7247306	507.162887	168.1453165
74	123.13	4.080741538	11.94191705	515.5136366	173.2233676
75	123.30	4.155470437	12.15850001	523.823813	178.3273804
76	123.47	4.230019328	12.37448284	532.0942574	183.45607
77	123.64	4.304389214	12.58986888	540.325774	188.6081968

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
78	123.82	4.378581082	12.80466137	548.5191311	193.7825646
79	124.01	4.45259591	13.01886357	556.6750627	198.9780187
80	124.20	4.526434656	13.23247863	564.7942697	204.1934439
81	124.39	4.600098269	13.44550972	572.8774217	209.4277629
82	124.59	4.673587684	13.65795993	580.9251579	214.6799344
83	124.80	4.746903823	13.86983232	588.9380884	219.9489517
84	125.01	4.820047597	14.08112993	596.9167953	225.2338412
85	125.22	4.893019906	14.29185573	604.8618341	230.5336605
86	125.44	4.965821636	14.50201269	612.7737344	235.8474979
87	125.67	5.038453666	14.71160371	620.6530011	241.1744699
88	125.90	5.110916862	14.9206317	628.5001155	246.513721
89	126.13	5.183212079	15.12909949	636.315536	251.8644219
90	126.37	5.255340165	15.33700992	644.099699	257.2257684
91	126.62	5.327301957	15.54436578	651.8530201	262.5969804
92	126.87	5.399098283	15.75116982	659.5758942	267.9773009
93	127.12	5.470729961	15.95742479	667.2686973	273.3659947
94	127.38	5.542197802	16.16313338	674.9317861	278.7623478
95	127.65	5.613502609	16.36829828	682.5654998	284.1656664
96	127.92	5.684645174	16.57292214	690.1701599	289.5752756
97	128.20	5.755626284	16.77700759	697.7460716	294.9905192
98	128.48	5.826446717	16.98055724	705.2935236	300.4107585
99	128.76	5.897107245	17.18357365	712.8127896	305.8353716
100	129.06	5.967608631	17.3860594	720.3041282	311.2637526
101	129.35	6.037951632	17.588017	727.7677838	316.6953112
102	129.65	6.108136998	17.78944898	735.203987	322.1294716
103	129.96	6.178165473	17.99035782	742.6129552	327.5656723
104	130.27	6.248037794	18.190746	749.9948928	333.003365
105	130.59	6.317754693	18.39061596	757.3499921	338.4420145
106	130.91	6.387316895	18.58997013	764.6784335	343.8810978
107	131.24	6.456725119	18.78881092	771.9803861	349.3201039
108	131.58	6.525980079	18.98714074	779.2560076	354.7585328
109	131.91	6.595082483	19.18496194	786.5054455	360.1958956
110	132.26	6.664033035	19.38227689	793.7288368	365.6317134
111	132.61	6.732832433	19.57908793	800.9263088	371.0655175
112	132.96	6.801481369	19.77539739	808.097979	376.4968485
113	133.32	6.869980532	19.97120756	815.2439561	381.9252561
114	133.68	6.938330606	20.16652074	822.3643397	387.3502989
115	134.05	7.006532269	20.36133921	829.4592208	392.7715434
116	134.43	7.074586196	20.55566522	836.5286823	398.1885645
117	134.81	7.142493056	20.74950104	843.572799	403.6009445
118	135.19	7.210253518	20.94284888	850.591638	409.008273

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
119	135.58	7.277868241	21.13571096	857.5852593	414.4101468
120	135.98	7.345337885	21.3280895	864.5537152	419.8061692
121	136.38	7.412663103	21.51998669	871.4970516	425.1959501
122	136.78	7.479844547	21.7114047	878.4153072	430.5791056
123	137.19	7.546882863	21.9023457	885.3085147	435.9552576
124	137.61	7.613778694	22.09281186	892.1767003	441.3240339
125	138.03	7.680532682	22.2828053	899.0198842	446.6850676
126	138.45	7.747145462	22.47232817	905.8380808	452.0379972
127	138.89	7.813617668	22.66138259	912.6312989	457.3824662
128	139.32	7.879949931	22.84997066	919.3995418	462.7181228
129	139.76	7.946142877	23.03809449	926.1428076	468.0446202
130	140.21	8.012197133	23.22575617	932.8610892	473.3616159
131	140.66	8.078113318	23.41295777	939.5543748	478.6687716
132	141.12	8.143892053	23.59970137	946.2226475	483.9657536
133	141.58	8.209533953	23.78598902	952.8658862	489.2522318
134	142.04	8.275039632	23.97182278	959.484065	494.5278802
135	142.52	8.340409701	24.15720468	966.077154	499.7923765
136	142.99	8.405644768	24.34213677	972.6451189	505.045402
137	143.47	8.47074544	24.52662106	979.1879216	510.2866416
138	143.96	8.535712321	24.71065958	985.70552	515.5157835
139	144.45	8.600546012	24.89425432	992.1978681	520.7325193
140	144.95	8.665247112	25.07740729	998.6649166	525.9365435
141	145.45	8.729816219	25.26012048	1005.106613	531.127554
142	145.96	8.794253929	25.44239588	1011.522899	536.3052516
143	146.47	8.858560833	25.62423546	1017.913718	541.46934
144	146.98	8.922737524	25.80564119	1024.279004	546.6195257
145	147.51	8.986784591	25.98661503	1030.618694	551.755518
146	148.03	9.050702621	26.16715894	1036.932717	556.8770289
147	148.56	9.114492201	26.34727487	1043.221002	561.983773
148	149.10	9.178153914	26.52696476	1049.483475	567.0754676
149	149.64	9.241688342	26.70623054	1055.720059	572.1518323
150	150.18	9.305096066	26.88507416	1061.930673	577.2125892
151	150.74	9.368377666	27.06349752	1068.115236	582.257463
152	151.29	9.431533719	27.24150255	1074.273664	587.2861807
153	151.85	9.494564802	27.41909116	1080.405869	592.2984714
154	152.42	9.557471488	27.59626526	1086.511762	597.2940668
155	152.98	9.620254351	27.77302674	1092.591252	602.2727007
156	153.56	9.682913963	27.94937751	1098.644247	607.2341091
157	154.14	9.745450895	28.12531945	1104.67065	612.1780303
158	154.72	9.807865716	28.30085445	1110.670364	617.1042046
159	155.31	9.870158995	28.47598438	1116.643292	622.0123748

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
160	155.90	9.932331297	28.65071113	1122.589332	626.9022854
161	156.50	9.994383189	28.82503657	1128.508381	631.7736832
162	157.10	10.05631524	28.99896255	1134.400336	636.6263173
163	157.71	10.118128	29.17249095	1140.265092	641.4599385
164	158.32	10.17982205	29.34562361	1146.102541	646.2742999
165	158.94	10.24139793	29.51836239	1151.912576	651.0691566
166	159.56	10.30285622	29.69070915	1157.695086	655.8442659
167	160.18	10.36419747	29.86266572	1163.449961	660.599387
168	160.81	10.42542225	30.03423394	1169.177089	665.3342811
169	161.45	10.48653267	30.20542032	1174.876819	670.0487116
170	162.09	10.5475295	30.37622723	1180.549085	674.7424566
171	162.73	10.60841326	30.54665647	1186.193758	679.4152975
172	163.38	10.66918451	30.71670981	1191.81071	684.0670165
173	164.03	10.72984377	30.88638903	1197.399813	688.6973976
174	164.69	10.79039159	31.05569591	1202.960939	693.3062261
175	165.35	10.85082851	31.22463221	1208.493957	697.8932885
176	166.01	10.91115507	31.3931997	1213.998739	702.458373
177	166.68	10.97137179	31.56140016	1219.475156	707.0012692
178	167.36	11.03147923	31.72923534	1224.923078	711.5217682
179	168.04	11.09147792	31.89670701	1230.342375	716.0196629
180	168.72	11.15136839	32.06381692	1235.732918	720.4947475
181	169.41	11.21115118	32.23056684	1241.094576	724.946818
182	170.10	11.27082682	32.39695851	1246.42722	729.3756721
183	170.79	11.33039586	32.56299369	1251.73072	733.7811093
184	171.49	11.38985882	32.72867413	1257.004946	738.1629307
185	172.20	11.44921623	32.89400157	1262.249769	742.5209393
186	172.90	11.50846864	33.05897776	1267.46506	746.8549398
187	173.62	11.56761658	33.22360444	1272.650689	751.1647391
188	174.33	11.62666058	33.38788336	1277.806528	755.4501456
189	175.05	11.68560117	33.55181624	1282.932447	759.71097
190	175.78	11.74443888	33.71540483	1288.028318	763.9470246
191	176.51	11.80317425	33.87865086	1293.094014	768.1581241
192	177.24	11.86180781	34.04155606	1298.129407	772.3440851
193	177.97	11.92034009	34.20412217	1303.13437	776.504726
194	178.71	11.97877162	34.36635091	1308.108777	780.6398679
195	179.46	12.03710293	34.528244	1313.0525	784.7493335
196	180.21	12.09533455	34.68980318	1317.965416	788.832948
197	180.96	12.15346702	34.85103016	1322.847398	792.8905387
198	181.72	12.21150086	35.01192667	1327.698324	796.9219352
199	182.47	12.2694366	35.17249441	1332.518069	800.9269694
200	183.24	12.32727478	35.33273512	1337.306511	804.9054755

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
201	184.01	12.38501591	35.49265051	1342.063528	808.85729
202	184.78	12.44266054	35.65224228	1346.789	812.7822519
203	185.55	12.50020918	35.81151215	1351.482805	816.6802024
204	186.33	12.55766237	35.97046183	1356.144826	820.5509854
205	187.11	12.61502063	36.12909303	1360.774944	824.3944472
206	187.90	12.6722845	36.28740745	1365.373042	828.2104365
207	188.69	12.7294545	36.4454068	1369.939003	831.9988047
208	189.48	12.78653115	36.60309277	1374.472714	835.7594056
209	190.28	12.84351499	36.76046708	1378.974061	839.4920957
210	191.08	12.90040654	36.91753141	1383.44293	843.1967341
211	191.88	12.95720632	37.07428747	1387.879211	846.8731826
212	192.69	13.01391487	37.23073695	1392.282795	850.5213057
213	193.50	13.07053271	37.38688154	1396.653572	854.1409706
214	194.32	13.12706036	37.54272294	1400.991436	857.7320471
215	195.13	13.18349835	37.69826283	1405.29628	861.2944079
216	195.96	13.2398472	37.85350291	1409.568002	864.8279286
217	196.78	13.29610744	38.00844485	1413.806497	868.3324873
218	197.61	13.3522796	38.16309035	1418.011666	871.8079654
219	198.44	13.40836419	38.31744108	1422.183409	875.2542467
220	199.27	13.46436174	38.47149873	1426.321629	878.6712182
221	200.11	13.52027277	38.62526497	1430.426229	882.0587698
222	200.95	13.57609781	38.77874148	1434.497115	885.4167942
223	201.80	13.63183738	38.93192994	1438.534195	888.7451872
224	202.64	13.687492	39.08483202	1442.537378	892.0438475
225	203.49	13.7430622	39.23744938	1446.506577	895.312677
226	204.35	13.79854848	39.3897837	1450.441704	898.5515804
227	205.21	13.85395138	39.54183664	1454.342674	901.7604656
228	206.06	13.90927142	39.69360987	1458.209406	904.9392435
229	206.93	13.96450911	39.84510505	1462.041818	908.0878281
230	207.79	14.01966497	39.99632384	1465.839833	911.2061367
231	208.66	14.07473953	40.1472679	1469.603374	914.2940895
232	209.53	14.1297333	40.29793888	1473.332366	917.35161
233	210.41	14.1846468	40.44833844	1477.026739	920.3786248
234	211.29	14.23948055	40.59846823	1480.686423	923.3750637
235	212.17	14.29423507	40.74832989	1484.31135	926.3408598
236	213.05	14.34891087	40.89792508	1487.901456	929.2759492
237	213.94	14.40350846	41.04725543	1491.456678	932.1802716
238	214.82	14.45802837	41.19632259	1494.976957	935.0537695
239	215.72	14.51247111	41.3451282	1498.461703	937.896921
240	216.61	14.5668372	41.4936739	1501.908683	940.7118463
241	217.51	14.62112717	41.64196143	1505.31801	943.4982947

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
242	218.41	14.67534158	41.78999248	1508.689788	946.2560325
243	219.31	14.72948095	41.93776876	1512.024114	948.9848417
244	220.21	14.78354583	42.08529197	1515.321078	951.6845195
245	221.12	14.83753674	42.23256379	1518.580762	954.3548774
246	222.03	14.89145422	42.3795859	1521.803245	956.9957403
247	222.94	14.9452988	42.52635998	1524.988599	959.6069465
248	223.86	14.99907099	42.67288769	1528.136892	962.1883465
249	224.78	15.05277134	42.8191707	1531.248187	964.7398027
250	225.70	15.10640036	42.96521066	1534.322544	967.2611886
251	226.62	15.15995856	43.11100923	1537.36002	969.7523887
252	227.54	15.21344649	43.25656804	1540.360669	972.2132976
253	228.47	15.26686464	43.40188873	1543.324543	974.64382
254	229.40	15.32021354	43.54697294	1546.251691	977.0438698
255	230.33	15.3734937	43.69182229	1549.142161	979.41337
256	231.26	15.42670564	43.8364384	1551.996001	981.7522522
257	232.20	15.47984987	43.9808229	1554.813256	984.0604566
258	233.14	15.53292689	44.12497738	1557.593971	986.337931
259	234.08	15.58593722	44.26890346	1560.338191	988.5846311
260	235.02	15.63888136	44.41260273	1563.045961	990.8005199
261	235.97	15.69175983	44.5560768	1565.717325	992.9855676
262	236.91	15.74457311	44.69932724	1568.352329	995.1397511
263	237.86	15.79732173	44.84235565	1570.951019	997.2630542
264	238.81	15.85000617	44.98516361	1573.513439	999.3554667
265	239.77	15.90262694	45.12775268	1576.039639	1001.416985
266	240.72	15.95518453	45.27012445	1578.529667	1003.447611
267	241.68	16.00767944	45.41228046	1580.983572	1005.447353
268	242.64	16.06011217	45.55422229	1583.401406	1007.416225
269	243.60	16.11248322	45.69595148	1585.783221	1009.354245
270	244.56	16.16479306	45.83746959	1588.129073	1011.261438
271	245.52	16.2170422	45.97877816	1590.439018	1013.137833
272	246.49	16.26923112	46.11987872	1592.713114	1014.983465
273	247.46	16.32136031	46.26077281	1594.951422	1016.798373
274	248.43	16.37343026	46.40146196	1597.154004	1018.582602
275	249.40	16.42544144	46.54194769	1599.320926	1020.3362
276	250.37	16.47739435	46.68223151	1601.452256	1022.05922
277	251.35	16.52928946	46.82231494	1603.548062	1023.751721
278	252.32	16.58112726	46.96219949	1605.608418	1025.413763
279	253.30	16.63290822	47.10188665	1607.633398	1027.045414
280	254.28	16.68463281	47.24137792	1609.62308	1028.646744
281	255.26	16.73630152	47.3806748	1611.577544	1030.217828
282	256.24	16.78791481	47.51977875	1613.496874	1031.758743

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
283	257.23	16.83947315	47.65869126	1615.381156	1033.269572
284	258.21	16.89097702	47.79741381	1617.230478	1034.750402
285	259.20	16.94242688	47.93594786	1619.044932	1036.201321
286	260.19	16.9938232	48.07429486	1620.824613	1037.622425
287	261.17	17.04516644	48.21245628	1622.569618	1039.013809
288	262.17	17.09645706	48.35043356	1624.280049	1040.375575
289	263.16	17.14769552	48.48822814	1625.956008	1041.707826
290	264.15	17.19888229	48.62584146	1627.597602	1043.010671
291	265.14	17.25001781	48.76327495	1629.204942	1044.284221
292	266.14	17.30110255	48.90053003	1630.77814	1045.528589
293	267.14	17.35213694	49.03760812	1632.317311	1046.743893
294	268.14	17.40312146	49.17451063	1633.822575	1047.930255
295	269.13	17.45405653	49.31123896	1635.294054	1049.087797
296	270.13	17.50494261	49.4477945	1636.731874	1050.216648
297	271.14	17.55578015	49.58417866	1638.136161	1051.316936
298	272.14	17.60656958	49.72039281	1639.507048	1052.388796
299	273.14	17.65731134	49.85643833	1640.84467	1053.432363
300	274.15	17.70800587	49.99231659	1642.149163	1054.447775
301	275.15	17.75865361	50.12802895	1643.420669	1055.435176
302	276.16	17.809255	50.26357676	1644.65933	1056.394709
303	277.17	17.85981045	50.39896139	1645.865294	1057.326522
304	278.17	17.91032041	50.53418416	1647.038711	1058.230765
305	279.18	17.96078529	50.66924641	1648.179733	1059.10759
306	280.19	18.01120552	50.80414947	1649.288517	1059.957153
307	281.20	18.06158153	50.93889465	1650.36522	1060.779613
308	282.21	18.11191373	51.07348328	1651.410005	1061.575128
309	283.23	18.16220254	51.20791665	1652.423037	1062.343863
310	284.24	18.21244837	51.34219606	1653.404482	1063.085982
311	285.25	18.26265164	51.47632279	1654.354512	1063.801653
312	286.27	18.31281276	51.61029814	1655.2733	1064.491048
313	287.28	18.36293214	51.74412338	1656.161023	1065.154337
314	288.30	18.41301017	51.87779976	1657.017859	1065.791696
315	289.31	18.46304726	52.01132855	1657.843989	1066.403301
316	290.33	18.51304382	52.14471099	1658.6396	1066.989333
317	291.35	18.56300024	52.27794834	1659.404877	1067.549971
318	292.37	18.61291691	52.41104182	1660.140011	1068.085399
319	293.38	18.66279422	52.54399265	1660.845195	1068.595803
320	294.40	18.71263258	52.67680206	1661.520623	1069.081369
321	295.42	18.76243235	52.80947125	1662.166493	1069.542288
322	296.44	18.81219393	52.94200142	1662.783007	1069.97875
323	297.46	18.86191771	53.07439377	1663.370366	1070.390948

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
324	298.48	18.91160404	53.20664948	1663.928775	1070.779076
325	299.50	18.96125333	53.33876973	1664.458443	1071.143333
326	300.53	19.01086592	53.47075567	1664.959579	1071.483915
327	301.55	19.06044221	53.60260847	1665.432396	1071.801022
328	302.57	19.10998255	53.73432928	1665.877108	1072.094857
329	303.59	19.15948732	53.86591924	1666.293933	1072.365621
330	304.61	19.20895686	53.99737947	1666.683088	1072.61352
331	305.64	19.25839155	54.12871111	1667.044795	1072.83876
332	306.66	19.30779174	54.25991527	1667.379279	1073.041549
333	307.68	19.35715778	54.39099305	1667.686762	1073.222094
334	308.71	19.40649002	54.52194554	1667.967474	1073.380606
335	309.73	19.45578882	54.65277384	1668.221644	1073.517298
336	310.75	19.50505451	54.78347902	1668.449501	1073.63238
337	311.78	19.55428744	54.91406216	1668.65128	1073.726067
338	312.80	19.60348796	55.04452431	1668.827215	1073.798575
339	313.82	19.65265638	55.17486652	1668.977543	1073.850119
340	314.85	19.70179305	55.30508984	1669.102502	1073.880916
341	315.87	19.7508983	55.43519529	1669.202331	1073.891184
342	316.90	19.79997246	55.56518391	1669.277273	1073.881143
343	317.92	19.84901585	55.6950567	1669.327569	1073.851012
344	318.94	19.89802879	55.82481467	1669.353465	1073.801012
345	319.97	19.9470116	55.95445882	1669.355206	1073.731365
346	320.99	19.99596459	56.08399013	1669.33304	1073.642292
347	322.02	20.04488808	56.21340958	1669.287215	1073.534017
348	323.04	20.09378239	56.34271814	1669.217981	1073.406763
349	324.06	20.1426478	56.47191676	1669.125589	1073.260756
350	325.09	20.19148463	56.60100639	1669.010291	1073.096218
351	326.11	20.24029318	56.72998798	1668.87234	1072.913376
352	327.13	20.28907375	56.85886245	1668.711991	1072.712456
353	328.15	20.33782662	56.98763072	1668.5295	1072.493683
354	329.18	20.38655209	57.11629371	1668.325121	1072.257284
355	330.20	20.43525045	57.24485232	1668.099112	1072.003485
356	331.22	20.48392199	57.37330743	1667.851732	1071.732515
357	332.24	20.53256697	57.50165993	1667.583239	1071.4446
358	333.26	20.5811857	57.62991069	1667.293891	1071.139968
359	334.29	20.62977843	57.75806059	1666.983951	1070.818845
360	335.31	20.67834544	57.88611046	1666.653676	1070.481461
361	336.33	20.72688701	58.01406116	1666.30333	1070.128042
362	337.35	20.77540339	58.14191352	1665.933174	1069.758817
363	338.37	20.82389485	58.26966837	1665.543469	1069.374013
364	339.39	20.87236166	58.39732652	1665.134478	1068.973857

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
365	340.41	20.92080407	58.52488878	1664.706464	1068.558577
366	341.43	20.96922232	58.65235595	1664.25969	1068.1284
367	342.44	21.01761669	58.77972882	1663.794419	1067.683554
368	343.46	21.0659874	58.90700815	1663.310915	1067.224264
369	344.48	21.11433471	59.03419473	1662.80944	1066.750757
370	345.50	21.16265886	59.16128931	1662.290258	1066.26326
371	346.51	21.21096009	59.28829264	1661.753633	1065.761997
372	347.53	21.25923863	59.41520546	1661.199828	1065.247194
373	348.55	21.30749472	59.54202851	1660.629106	1064.719076
374	349.56	21.35572859	59.6687625	1660.041731	1064.177867
375	350.58	21.40394045	59.79540816	1659.437964	1063.62379
376	351.59	21.45213054	59.92196617	1658.81807	1063.057069
377	352.60	21.50029908	60.04843724	1658.18231	1062.477925
378	353.62	21.54844629	60.17482205	1657.530945	1061.886581
379	354.63	21.59657237	60.30112127	1656.864238	1061.283257
380	355.64	21.64467754	60.42733558	1656.182449	1060.668173
381	356.65	21.69276201	60.55346563	1655.485839	1060.041549
382	357.66	21.74082599	60.67951207	1654.774667	1059.403604
383	358.67	21.78886967	60.80547553	1654.049192	1058.754554
384	359.68	21.83689326	60.93135665	1653.309674	1058.094617
385	360.69	21.88489695	61.05715604	1652.556369	1057.424008
386	361.70	21.93288094	61.18287433	1651.789534	1056.742942
387	362.71	21.98084541	61.30851211	1651.009427	1056.051634
388	363.71	22.02879057	61.43406998	1650.216301	1055.350295
389	364.72	22.07671658	61.55954851	1649.410412	1054.639137
390	365.73	22.12462364	61.6849483	1648.592013	1053.918372
391	366.73	22.17251191	61.8102699	1647.761355	1053.188207
392	367.73	22.22038159	61.93551387	1646.918691	1052.448852
393	368.74	22.26823284	62.06068077	1646.064271	1051.700514
394	369.74	22.31606583	62.18577114	1645.198343	1050.943398
395	370.74	22.36388073	62.3107855	1644.321155	1050.177709
396	371.74	22.41167771	62.43572439	1643.432955	1049.40365
397	372.74	22.45945693	62.56058831	1642.533986	1048.621423
398	373.74	22.50721854	62.68537778	1641.624495	1047.831228
399	374.74	22.55496271	62.8100933	1640.704723	1047.033265
400	375.74	22.60268959	62.93473535	1639.774911	1046.227732
401	376.74	22.65039933	63.05930442	1638.8353	1045.414824
402	377.74	22.69809208	63.18380097	1637.886128	1044.594737
403	378.73	22.74576798	63.30822549	1636.927632	1043.767663
404	379.73	22.79342719	63.43257842	1635.960047	1042.933796
405	380.72	22.84106983	63.55686022	1634.983608	1042.093325

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
406	381.72	22.88869604	63.68107132	1633.998547	1041.24644
407	382.71	22.93630598	63.80521216	1633.005094	1040.393326
408	383.70	22.98389975	63.92928317	1632.003478	1039.534171
409	384.69	23.03147751	64.05328476	1630.993928	1038.669159
410	385.68	23.07903937	64.17721735	1629.976667	1037.79847
411	386.67	23.12658546	64.30108133	1628.951921	1036.922288
412	387.66	23.1741159	64.4248771	1627.919912	1036.04079
413	388.65	23.22163081	64.54860506	1626.880859	1035.154154
414	389.63	23.26913031	64.67226557	1625.834981	1034.262556
415	390.62	23.31661453	64.79585901	1624.782494	1033.36617
416	391.61	23.36408356	64.91938574	1623.723615	1032.465168
417	392.59	23.41153752	65.04284613	1622.658554	1031.559721
418	393.57	23.45897652	65.16624053	1621.587523	1030.649998
419	394.56	23.50640066	65.28956927	1620.510732	1029.736165
420	395.54	23.55381006	65.41283269	1619.428386	1028.818389
421	396.52	23.6012048	65.53603113	1618.340692	1027.896832
422	397.50	23.64858499	65.6591649	1617.247851	1026.971656
423	398.48	23.69595073	65.78223432	1616.150065	1026.043022
424	399.46	23.74330211	65.9052397	1615.047532	1025.111086
425	400.43	23.79063922	66.02818135	1613.94045	1024.176006
426	401.41	23.83796216	66.15105954	1612.829013	1023.237936
427	402.39	23.885271	66.27387458	1611.713413	1022.297027
428	403.36	23.93256585	66.39662675	1610.593841	1021.353432
429	404.34	23.97984677	66.51931632	1609.470486	1020.407298
430	405.31	24.02711386	66.64194356	1608.343533	1019.458772
431	406.28	24.07436719	66.76450873	1607.213166	1018.508
432	407.25	24.12160685	66.8870121	1606.079568	1017.555125
433	408.22	24.16883289	67.0094539	1604.942917	1016.600287
434	409.19	24.21604541	67.13183439	1603.803392	1015.643627
435	410.16	24.26324448	67.25415381	1602.661167	1014.685281
436	411.13	24.31043015	67.37641238	1601.516415	1013.725386
437	412.09	24.3576025	67.49861033	1600.369308	1012.764074
438	413.06	24.4047616	67.62074789	1599.220014	1011.801478
439	414.02	24.45190751	67.74282526	1598.068699	1010.837728
440	414.99	24.4990403	67.86484267	1596.915527	1009.872951
441	415.95	24.54616001	67.9868003	1595.76066	1008.907273
442	416.91	24.59326672	68.10869837	1594.604258	1007.940819
443	417.87	24.64036047	68.23053706	1593.446478	1006.973711
444	418.83	24.68744133	68.35231656	1592.287474	1006.006069
445	419.79	24.73450935	68.47403706	1591.127401	1005.038012
446	420.75	24.78156458	68.59569873	1589.966408	1004.069656

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
447	421.71	24.82860707	68.71730174	1588.804643	1003.101116
448	422.66	24.87563686	68.83884627	1587.642253	1002.132505
449	423.62	24.92265401	68.96033246	1586.479381	1001.163933
450	424.57	24.96965857	69.08176049	1585.316169	1000.195509
451	425.53	25.01665056	69.2031305	1584.152757	999.2273413
452	426.48	25.06363005	69.32444264	1582.98928	998.2595343
453	427.43	25.11059706	69.44569706	1581.825874	997.2921917
454	428.38	25.15755164	69.56689389	1580.662671	996.3254149
455	429.33	25.20449382	69.68803326	1579.499801	995.3593036
456	430.28	25.25142364	69.80911532	1578.337393	994.3939558
457	431.23	25.29834114	69.93014017	1577.175572	993.4294675
458	432.18	25.34524635	70.05110795	1576.014462	992.4659328
459	433.12	25.39213931	70.17201877	1574.854184	991.5034441
460	434.07	25.43902003	70.29287274	1573.694857	990.5420921
461	435.01	25.48588856	70.41366997	1572.536597	989.5819654
462	435.96	25.53274492	70.53441057	1571.379521	988.6231512
463	436.90	25.57958913	70.65509464	1570.223739	987.6657346
464	437.84	25.62642123	70.77572227	1569.069364	986.7097992
465	438.78	25.67324124	70.89629356	1567.916501	985.7554265
466	439.72	25.72004918	71.01680859	1566.765259	984.8026965
467	440.66	25.76684507	71.13726746	1565.61574	983.8516875
468	441.60	25.81362894	71.25767024	1564.468046	982.9024761
469	442.54	25.8604008	71.37801701	1563.322277	981.9551368
470	443.47	25.90716068	71.49830786	1562.17853	981.009743
471	444.41	25.95390858	71.61854284	1561.036901	980.0663659
472	445.34	26.00064453	71.73872203	1559.897483	979.1250754
473	446.28	26.04736855	71.8588455	1558.760368	978.1859394
474	447.21	26.09408064	71.9789133	1557.625644	977.2490246
475	448.14	26.14078083	72.0989255	1556.493398	976.3143956
476	449.07	26.18746911	72.21888216	1555.363717	975.3821157
477	450.00	26.23414552	72.33878331	1554.236682	974.4522465
478	450.93	26.28081005	72.45862903	1553.112376	973.524848
479	451.86	26.32746271	72.57841934	1551.990876	972.5999787
480	452.79	26.37410352	72.69815431	1550.872262	971.6776954
481	453.71	26.42073248	72.81783396	1549.756606	970.7580534
482	454.64	26.4673496	72.93745835	1548.643984	969.8411066
483	455.56	26.51395489	73.0570275	1547.534466	968.9269074
484	456.49	26.56054835	73.17654144	1546.428122	968.0155065
485	457.41	26.60712998	73.29600023	1545.32502	967.1069532
486	458.33	26.6536998	73.41540387	1544.225225	966.2012954
487	459.25	26.7002578	73.5347524	1543.128801	965.2985796

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
488	460.17	26.74680398	73.65404584	1542.035811	964.3988507
489	461.09	26.79333836	73.77328422	1540.946315	963.5021523
490	462.01	26.83986092	73.89246756	1539.860371	962.6085266
491	462.93	26.88637167	74.01159587	1538.778036	961.7180145
492	463.85	26.93287061	74.13066917	1537.699365	960.8306552
493	464.76	26.97935774	74.24968747	1536.624411	959.946487
494	465.68	27.02583305	74.36865079	1535.553227	959.0655466
495	466.59	27.07229655	74.48755914	1534.485862	958.1878695
496	467.51	27.11874823	74.60641253	1533.422364	957.3134897
497	468.42	27.16518809	74.72521096	1532.36278	956.4424402
498	469.33	27.21161612	74.84395443	1531.307155	955.5747526
499	470.24	27.25803233	74.96264296	1530.255533	954.7104572
500	471.15	27.3044367	75.08127653	1529.207955	953.8495832
501	472.06	27.35082923	75.19985516	1528.164461	952.9921585
502	472.97	27.39720991	75.31837885	1527.12509	952.1382098
503	473.88	27.44357875	75.43684758	1526.08988	951.2877628
504	474.79	27.48993572	75.55526135	1525.058866	950.4408417
505	475.69	27.53628083	75.67362017	1524.032082	949.59747
506	476.60	27.58261407	75.79192401	1523.009561	948.7576697
507	477.50	27.62893542	75.91017288	1521.991335	947.9214618
508	478.41	27.67524488	76.02836676	1520.977433	947.0888664
509	479.31	27.72154245	76.14650565	1519.967884	946.2599022
510	480.21	27.76782811	76.26458952	1518.962715	945.4345872
511	481.11	27.81410185	76.38261837	1517.961952	944.612938
512	482.01	27.86036367	76.50059219	1516.96562	943.7949706
513	482.91	27.90661354	76.61851096	1515.973741	942.9806996
514	483.81	27.95285147	76.73637465	1514.986337	942.1701388
515	484.71	27.99907745	76.85418327	1514.00343	941.3633011
516	485.61	28.04529145	76.97193678	1513.025038	940.5601983
517	486.50	28.09149347	77.08963517	1512.051179	939.7608415
518	487.40	28.13768351	77.20727842	1511.081871	938.9652405
519	488.30	28.18386153	77.3248665	1510.11713	938.1734045
520	489.19	28.23002755	77.44239941	1509.156969	937.3853418
521	490.08	28.27618153	77.55987711	1508.201403	936.6010598
522	490.98	28.32232348	77.67729958	1507.250444	935.8205649
523	491.87	28.36845337	77.7946668	1506.304102	935.043863
524	492.76	28.4145712	77.91197875	1505.362389	934.2709588
525	493.65	28.46067695	78.02923539	1504.425313	933.5018564
526	494.54	28.50677061	78.14643672	1503.492883	932.7365592
527	495.43	28.55285216	78.26358269	1502.565105	931.9750697
528	496.32	28.5989216	78.38067329	1501.641985	931.2173897

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
529	497.21	28.6449789	78.49770849	1500.723529	930.4635203
530	498.10	28.69102406	78.61468826	1499.809741	929.7134617
531	498.98	28.73705707	78.73161257	1498.900624	928.9672136
532	499.87	28.78307789	78.8484814	1497.99618	928.224775
533	500.75	28.82908654	78.96529471	1497.09641	927.4861441
534	501.64	28.87508298	79.08205249	1496.201316	926.7513185
535	502.52	28.92106721	79.1987547	1495.310896	926.0202953
536	503.40	28.96703921	79.31540131	1494.42515	925.2930707
537	504.29	29.01299897	79.4319923	1493.544076	924.5696406
538	505.17	29.05894647	79.54852763	1492.66767	923.85
539	506.05	29.1048817	79.66500727	1491.79593	923.1341436
540	506.93	29.15080465	79.7814312	1490.92885	922.4220652
541	507.81	29.19671529	79.89779939	1490.066426	921.7137585
542	508.69	29.24261362	80.0141118	1489.208651	921.0092162
543	509.56	29.28849963	80.13036841	1488.35552	920.3084307
544	510.44	29.33437329	80.24656918	1487.507025	919.611394
545	511.32	29.3802346	80.3627141	1486.663158	918.9180974
546	512.20	29.42608353	80.47880311	1485.82391	918.2285318
547	513.07	29.47192008	80.59483621	1484.989273	917.5426876
548	513.95	29.51774423	80.71081335	1484.159236	916.8605547
549	514.82	29.56355597	80.82673451	1483.33379	916.1821228
550	515.69	29.60935528	80.94259966	1482.512922	915.5073808
551	516.57	29.65514215	81.05840877	1481.696621	914.8363175
552	517.44	29.70091656	81.1741618	1480.884876	914.1689211
553	518.31	29.7466785	81.28985873	1480.077673	913.5051796
554	519.18	29.79242796	81.40549953	1479.275	912.8450803
555	520.05	29.83816493	81.52108417	1478.476842	912.1886105
556	520.92	29.88388938	81.63661263	1477.683185	911.5357568
557	521.79	29.92960131	81.75208486	1476.894015	910.8865058
558	522.66	29.9753007	81.86750085	1476.109316	910.2408435
559	523.53	30.02098753	81.98286056	1475.329073	909.5987557
560	524.39	30.0666618	82.09816397	1474.553269	908.9602278
561	525.26	30.1123235	82.21341106	1473.781888	908.3252451
562	526.13	30.1579726	82.32860178	1473.014914	907.6937924
563	526.99	30.2036091	82.44373611	1472.252329	907.0658542
564	527.86	30.24923298	82.55881404	1471.494115	906.441415
565	528.72	30.29484423	82.67383552	1470.740254	905.8204588
566	529.59	30.34044283	82.78880054	1469.990729	905.2029694
567	530.45	30.38602878	82.90370907	1469.245519	904.5889304
568	531.31	30.43160207	83.01856107	1468.504607	903.9783252
569	532.17	30.47716267	83.13335654	1467.767972	903.3711369

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
570	533.03	30.52271058	83.24809543	1467.035595	902.7673485
571	533.89	30.56824578	83.36277773	1466.307457	902.1669427
572	534.75	30.61376827	83.47740342	1465.583536	901.5699021
573	535.61	30.65927803	83.59197246	1464.863813	900.9762091
574	536.47	30.70477505	83.70648483	1464.148267	900.3858458
575	537.33	30.75025931	83.82094052	1463.436876	899.7987943
576	538.19	30.79573082	83.93533949	1462.72962	899.2150366
577	539.05	30.84118955	84.04968173	1462.026477	898.6345543
578	539.90	30.88663549	84.16396721	1461.327426	898.057329
579	540.76	30.93206864	84.27819591	1460.632444	897.4833423
580	541.62	30.97748898	84.39236781	1459.94151	896.9125755
581	542.47	31.0228965	84.5064829	1459.254602	896.3450098
582	543.33	31.0682912	84.62054114	1458.571696	895.7806264
583	544.18	31.11367305	84.73454252	1457.892771	895.2194064
584	545.03	31.15904206	84.84848702	1457.217804	894.6613307
585	545.89	31.20439821	84.96237462	1456.546772	894.1063801
586	546.74	31.24974149	85.0762053	1455.879653	893.5545355
587	547.59	31.2950719	85.18997905	1455.216423	893.0057776
588	548.44	31.34038942	85.30369584	1454.557058	892.4600871
589	549.29	31.38569404	85.41735566	1453.901537	891.9174445
590	550.14	31.43098575	85.53095849	1453.249834	891.3778304
591	550.99	31.47626456	85.64450432	1452.601928	890.8412254
592	551.84	31.52153044	85.75799313	1451.957795	890.3076099
593	552.69	31.56678338	85.87142491	1451.31741	889.7769643
594	553.54	31.61202339	85.98479963	1450.680751	889.249269
595	554.39	31.65725045	86.09811729	1450.047793	888.7245046
596	555.24	31.70246455	86.21137788	1449.418513	888.2026512
597	556.08	31.74766569	86.32458137	1448.792887	887.6836894
598	556.93	31.79285386	86.43772775	1448.170892	887.1675994
599	557.77	31.83802905	86.55081702	1447.552503	886.6543616
600	558.62	31.88319126	86.66384916	1446.937696	886.1439565
601	559.47	31.92834047	86.77682417	1446.326449	885.6363643
602	560.31	31.97347667	86.88974202	1445.718736	885.1315655
603	561.15	32.01859988	87.00260271	1445.114535	884.6295405
604	562.00	32.06371006	87.11540622	1444.51382	884.1302697
605	562.84	32.10880723	87.22815256	1443.916569	883.6337336
606	563.68	32.15389137	87.34084171	1443.322758	883.1399127
607	564.52	32.19896248	87.45347366	1442.732362	882.6487875
608	565.37	32.24402055	87.5660484	1442.145358	882.1603386
609	566.21	32.28906558	87.67856593	1441.561723	881.6745466
610	567.05	32.33409756	87.79102624	1440.981432	881.1913922

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
611	567.89	32.37911648	87.90342933	1440.404462	880.710856
612	568.73	32.42412234	88.01577518	1439.830789	880.232919
613	569.57	32.46911514	88.12806379	1439.26039	879.7575618
614	570.41	32.51409487	88.24029516	1438.693241	879.2847654
615	571.24	32.55906152	88.35246928	1438.129319	878.8145107
616	572.08	32.60401509	88.46458615	1437.568601	878.3467788
617	572.92	32.64895558	88.57664577	1437.011063	877.8815507
618	573.76	32.69388298	88.68864813	1436.456681	877.4188077
619	574.59	32.73879729	88.80059322	1435.905434	876.9585308
620	575.43	32.78369851	88.91248106	1435.357297	876.5007015
621	576.27	32.82858662	89.02431162	1434.812248	876.0453012
622	577.10	32.87346164	89.13608493	1434.270264	875.5923113
623	577.94	32.91832355	89.24780096	1433.731322	875.1417134
624	578.77	32.96317235	89.35945973	1433.195399	874.6934891
625	579.60	33.00800803	89.47106123	1432.662474	874.2476202
626	580.44	33.05283061	89.58260547	1432.132522	873.8040886
627	581.27	33.09764006	89.69409244	1431.605523	873.3628761
628	582.10	33.1424364	89.80552215	1431.081453	872.9239648
629	582.94	33.18721961	89.9168946	1430.560291	872.4873367
630	583.77	33.23198971	90.02820979	1430.042014	872.0529742
631	584.60	33.27674667	90.13946773	1429.526601	871.6208595
632	585.43	33.32149051	90.25066841	1429.014029	871.1909751
633	586.26	33.36622121	90.36181184	1428.504278	870.7633034
634	587.09	33.41093879	90.47289804	1427.997324	870.3378272
635	587.92	33.45564323	90.58392699	1427.493148	869.9145291
636	588.75	33.50033454	90.69489871	1426.991726	869.493392
637	589.58	33.54501272	90.8058132	1426.49304	869.0743988
638	590.41	33.58967776	90.91667046	1425.997066	868.6575327
639	591.24	33.63432966	91.02747051	1425.503785	868.2427767
640	592.06	33.67896843	91.13821336	1425.013175	867.8301141
641	592.89	33.72359406	91.248899	1424.525215	867.4195285
642	593.72	33.76820655	91.35952744	1424.039886	867.0110032
643	594.55	33.81280591	91.47009871	1423.557167	866.6045219
644	595.37	33.85739213	91.58061279	1423.077036	866.2000683
645	596.20	33.90196521	91.6910697	1422.599476	865.7976263
646	597.02	33.94652515	91.80146946	1422.124464	865.3971799
647	597.85	33.99107195	91.91181207	1421.651981	864.9987131
648	598.67	34.03560562	92.02209753	1421.182008	864.6022102
649	599.50	34.08012616	92.13232587	1420.714525	864.2076555
650	600.32	34.12463355	92.24249709	1420.249513	863.8150333
651	601.14	34.16912782	92.3526112	1419.786951	863.4243284

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
652	601.97	34.21360895	92.46266822	1419.326822	863.0355253
653	602.79	34.25807695	92.57266815	1418.869105	862.6486089
654	603.61	34.30253182	92.68261101	1418.413783	862.2635641
655	604.44	34.34697356	92.79249682	1417.960836	861.8803759
656	605.26	34.39140218	92.90232557	1417.510245	861.4990294
657	606.08	34.43581767	93.0120973	1417.061993	861.11951
658	606.90	34.48022003	93.12181201	1416.61606	860.741803
659	607.72	34.52460928	93.23146971	1416.172429	860.3658939
660	608.54	34.5689854	93.34107042	1415.731082	859.9917685
661	609.36	34.61334841	93.45061416	1415.292	859.6194124
662	610.18	34.6576983	93.56010094	1414.855167	859.2488115
663	611.00	34.70203508	93.66953077	1414.420564	858.8799518
664	611.82	34.74635876	93.77890368	1413.988174	858.5128194
665	612.64	34.79066932	93.88821967	1413.557979	858.1474005
666	613.46	34.83496678	93.99747877	1413.129963	857.7836815
667	614.27	34.87925114	94.10668098	1412.704109	857.4216489
668	615.09	34.9235224	94.21582634	1412.280399	857.0612892
669	615.91	34.96778056	94.32491281	1411.858816	856.7025891
670	616.72	35.01202563	94.43393792	1411.439345	856.3455355
671	617.54	35.05625762	94.54290167	1411.021969	855.9901153
672	618.36	35.10047652	94.65180409	1410.606672	855.6363155
673	619.17	35.14468234	94.76064516	1410.193437	855.2841233
674	619.99	35.18887508	94.86942491	1409.782248	854.9335261
675	620.80	35.23305474	94.97814334	1409.37309	854.5845112
676	621.62	35.27722134	95.08680047	1408.965947	854.2370661
677	622.43	35.32137487	95.1953963	1408.560803	853.8911785
678	623.25	35.36551534	95.30393084	1408.157643	853.5468361
679	624.06	35.40964275	95.41240411	1407.756452	853.2040269
680	624.87	35.45375711	95.52081611	1407.357214	852.8627387
681	625.69	35.49785841	95.62916685	1406.959914	852.5229597
682	626.50	35.54194668	95.73745636	1406.564538	852.1846781
683	627.31	35.5860219	95.84568463	1406.17107	851.8478821
684	628.13	35.63008409	95.95385168	1405.779497	851.5125603
685	628.94	35.67413325	96.06195753	1405.389803	851.1787011
686	629.75	35.71816938	96.17000218	1405.001975	850.8462931
687	630.56	35.76219249	96.27798565	1404.615997	850.5153252
688	631.37	35.80620259	96.38590795	1404.231856	850.1857861
689	632.18	35.85019967	96.4937691	1403.849539	849.8576648
690	632.99	35.89418375	96.6015691	1403.46903	849.5309504
691	633.80	35.93815483	96.70930797	1403.090317	849.2056321
692	634.61	35.98211291	96.81698573	1402.713386	848.881699

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
693	635.42	36.02605801	96.92460238	1402.338223	848.5591406
694	636.23	36.06999011	97.03215795	1401.964815	848.2379463
695	637.04	36.11390925	97.13965245	1401.59315	847.9181058
696	637.85	36.1578154	97.24708588	1401.223213	847.5996086
697	638.66	36.20170859	97.35445828	1400.854991	847.2824446
698	639.46	36.24558882	97.46176964	1400.488473	846.9666037
699	640.27	36.2894561	97.56901999	1400.123646	846.6520757
700	641.08	36.33331042	97.67620935	1399.760496	846.3388509
701	641.89	36.3771518	97.78333772	1399.399011	846.0269192
702	642.69	36.42098024	97.89040512	1399.039179	845.7162711
703	643.50	36.46479575	97.99741158	1398.680988	845.4068968
704	644.30	36.50859834	98.10435709	1398.324426	845.0987868
705	645.11	36.552388	98.2112417	1397.96948	844.7919317
706	645.92	36.59616475	98.3180654	1397.616139	844.486322
707	646.72	36.6399286	98.42482821	1397.264391	844.1819486
708	647.53	36.68367954	98.53153016	1396.914224	843.8788021
709	648.33	36.72741759	98.63817125	1396.565628	843.5768736
710	649.13	36.77114276	98.74475152	1396.218589	843.276154
711	649.94	36.81485504	98.85127096	1395.873098	842.9766345
712	650.74	36.85855445	98.95772961	1395.529143	842.6783061
713	651.55	36.90224099	99.06412748	1395.186712	842.3811601
714	652.35	36.94591467	99.17046458	1394.845795	842.0851879
715	653.15	36.9895755	99.27674094	1394.506381	841.790381
716	653.95	37.03322348	99.38295657	1394.168459	841.4967308
717	654.76	37.07685862	99.48911149	1393.832019	841.2042289
718	655.56	37.12048093	99.59520572	1393.49705	840.912867
719	656.36	37.16409041	99.70123928	1393.163541	840.6226369
720	657.16	37.20768708	99.80721218	1392.831482	840.3335304
721	657.96	37.25127093	99.91312445	1392.500862	840.0455394
722	658.76	37.29484197	100.0189761	1392.171673	839.7586559
723	659.57	37.33840022	100.1247672	1391.843903	839.4728721
724	660.37	37.38194568	100.2304977	1391.517543	839.1881801
725	661.17	37.42547836	100.3361676	1391.192582	838.9045721
726	661.97	37.46899826	100.441777	1390.869011	838.6220404
727	662.77	37.51250539	100.5473258	1390.546821	838.3405774
728	663.56	37.55599976	100.6528142	1390.226001	838.0601756
729	664.36	37.59948138	100.7582421	1389.906543	837.7808275
730	665.16	37.64295025	100.8636095	1389.588436	837.5025257
731	665.96	37.68640639	100.9689165	1389.271671	837.2252629
732	666.76	37.72984979	101.0741631	1388.95624	836.9490318
733	667.56	37.77328047	101.1793493	1388.642133	836.6738254

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
734	668.36	37.8166985	101.2844753	1388.329421	836.3996364
735	669.15	37.86010415	101.3895419	1388.018368	836.1264678
736	669.95	37.90349742	101.4945492	1387.70892	835.8543547
737	670.75	37.94687831	101.599497	1387.401034	835.5833183
738	671.54	37.99024682	101.7043856	1387.094677	835.3133698
739	672.34	38.03360297	101.8092148	1386.789817	835.0445137
740	673.14	38.07694675	101.9139847	1386.486431	834.7767495
741	673.93	38.12027818	102.0186952	1386.184496	834.5100736
742	674.73	38.16359725	102.1233465	1385.883994	834.24448
743	675.52	38.20690398	102.2279385	1385.584905	833.9799613
744	676.32	38.25019837	102.3324712	1385.287213	833.716509
745	677.11	38.29348043	102.4369446	1384.990902	833.4541141
746	677.91	38.33675015	102.5413589	1384.695956	833.192767
747	678.70	38.38000756	102.6457139	1384.402362	832.9324581
748	679.50	38.42325265	102.7500097	1384.110106	832.6731776
749	680.29	38.46648544	102.8542463	1383.819172	832.4149157
750	681.08	38.50970592	102.9584237	1383.52955	832.1576628
751	681.88	38.5529141	103.062542	1383.241224	831.9014091
752	682.67	38.59611	103.1666012	1382.954184	831.6461451
753	683.46	38.63929362	103.2706012	1382.668416	831.3918616
754	684.26	38.68246496	103.3745422	1382.383199	831.1392584
755	685.05	38.72562404	103.478424	1382.09729	830.8895058
756	685.84	38.76877089	103.5822469	1381.811188	830.6419438
757	686.63	38.81190553	103.6860109	1381.525238	830.3961152
758	687.42	38.85502797	103.789716	1381.239681	830.1517032
759	688.22	38.89813823	103.8933623	1380.954681	829.9084885
760	689.01	38.94123633	103.9969498	1380.670355	829.6663195
761	689.80	38.98432228	104.1004786	1380.38678	829.4250913
762	690.59	39.02739609	104.2039486	1380.104011	829.1847312
763	691.38	39.07045777	104.30736	1379.822085	828.945189
764	692.17	39.11350733	104.4107127	1379.541027	828.7064297
765	692.96	39.15654479	104.5140067	1379.260856	828.4684291
766	693.75	39.19957014	104.6172422	1378.981581	828.2311702
767	694.54	39.24258341	104.7204191	1378.703211	827.9946409
768	695.33	39.2855846	104.8235375	1378.42575	827.7588324
769	696.12	39.32857373	104.9265973	1378.149201	827.5237386
770	696.91	39.37155079	105.0295987	1377.873565	827.2893545
771	697.70	39.41451581	105.1325416	1377.598843	827.0556764
772	698.49	39.45746879	105.235426	1377.325034	826.8227013
773	699.27	39.50040974	105.3382521	1377.052137	826.5904265
774	700.06	39.54333867	105.4410197	1376.78015	826.3588498

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
775	700.85	39.58625559	105.543729	1376.509073	826.1279688
776	701.64	39.62916051	105.64638	1376.238904	825.8977817
777	702.42	39.67205343	105.7489726	1375.96964	825.6682864
778	703.21	39.71493438	105.851507	1375.70128	825.4394808
779	704.00	39.75780335	105.9539831	1375.43382	825.211363
780	704.79	39.80066036	106.056401	1375.167259	824.983931
781	705.57	39.84350541	106.1587606	1374.901595	824.7571826
782	706.36	39.88633852	106.2610621	1374.636824	824.5311157
783	707.15	39.92915969	106.3633054	1374.372945	824.3057283
784	707.93	39.97196894	106.4654906	1374.109953	824.0810181
785	708.72	40.01476627	106.5676177	1373.847847	823.8569829
786	709.50	40.05755169	106.6696867	1373.586624	823.6336204
787	710.29	40.10032521	106.7716976	1373.326281	823.4109284
788	711.07	40.14308684	106.8736505	1373.066814	823.1889044
789	711.86	40.18583659	106.9755454	1372.808222	822.9675462
790	712.64	40.22857447	107.0773823	1372.5505	822.7468512
791	713.43	40.27130049	107.1791613	1372.293646	822.526817
792	714.21	40.31401465	107.2808823	1372.037656	822.3074412
793	715.00	40.35671697	107.3825454	1371.782528	822.0887213
794	715.78	40.39940745	107.4841506	1371.528257	821.8706547
795	716.56	40.4420861	107.585698	1371.274842	821.6532388
796	717.35	40.48475294	107.6871875	1371.022278	821.4364712
797	718.13	40.52740797	107.7886192	1370.770563	821.2203491
798	718.91	40.5700512	107.8899931	1370.519692	821.00487
799	719.70	40.61268264	107.9913093	1370.269663	820.7900313
800	720.48	40.6553023	108.0925677	1370.020472	820.5758302
801	721.26	40.69791018	108.1937684	1369.772116	820.3622642
802	722.04	40.7405063	108.2949114	1369.524592	820.1493304
803	722.82	40.78309066	108.3959967	1369.277895	819.9370263
804	723.61	40.82566328	108.4970244	1369.032022	819.7253492
805	724.39	40.86822416	108.5979945	1368.786971	819.5142962
806	725.17	40.91077332	108.698907	1368.542737	819.3038647
807	725.95	40.95331075	108.7997619	1368.299317	819.094052
808	726.73	40.99583647	108.9005592	1368.056707	818.8848554
809	727.51	41.03835049	109.0012991	1367.814904	818.676272
810	728.29	41.08085282	109.1019814	1367.573905	818.4682991
811	729.07	41.12334346	109.2026063	1367.333706	818.260934
812	729.85	41.16582242	109.3031737	1367.094302	818.0541739
813	730.63	41.20828972	109.4036837	1366.855692	817.8480161
814	731.41	41.25074536	109.5041363	1366.617871	817.6424579
815	732.19	41.29318936	109.6045315	1366.380835	817.4374963

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
816	732.97	41.33562171	109.7048694	1366.144581	817.2331288
817	733.75	41.37804243	109.8051499	1365.909106	817.0293525
818	734.53	41.42045152	109.9053731	1365.674407	816.8261647
819	735.31	41.462849	110.005539	1365.440478	816.6235627
820	736.09	41.50523488	110.1056477	1365.207318	816.4215437
821	736.87	41.54760916	110.2056992	1364.974922	816.2201049
822	737.64	41.58997185	110.3056934	1364.743286	816.0192437
823	738.42	41.63232296	110.4056304	1364.512409	815.8189573
824	739.20	41.6746625	110.5055103	1364.282285	815.6192429
825	739.98	41.71699047	110.6053331	1364.052911	815.4200979
826	740.76	41.7593069	110.7050987	1363.824284	815.2215195
827	741.53	41.80161177	110.8048072	1363.596401	815.023505
828	742.31	41.84390512	110.9044587	1363.369257	814.8260518
829	743.09	41.88618693	111.0040531	1363.14285	814.6291571
830	743.86	41.92845723	111.1035905	1362.917175	814.4328183
831	744.64	41.97071601	111.203071	1362.69223	814.2370327
832	745.42	42.01296329	111.3024944	1362.468011	814.0417976
833	746.19	42.05519908	111.4018609	1362.244515	813.8471103
834	746.97	42.09742246	111.5011704	1362.021738	813.6529683
835	747.74	42.1396334	111.6004231	1361.799676	813.4593689
836	748.52	42.18183193	111.6996189	1361.578327	813.2663095
837	749.30	42.22401804	111.7987578	1361.357687	813.0737874
838	750.07	42.26619175	111.8978399	1361.137753	812.8818001
839	750.85	42.30835305	111.9968652	1360.91852	812.6903449
840	751.62	42.35050196	112.0958337	1360.699987	812.4994194
841	752.40	42.39263848	112.1947455	1360.482149	812.3090209
842	753.17	42.43476262	112.2936005	1360.265004	812.1191468
843	753.94	42.47687439	112.3923988	1360.048548	811.9297947
844	754.72	42.51897379	112.4911404	1359.832777	811.740962
845	755.49	42.56106083	112.5898254	1359.617689	811.5526462
846	756.27	42.60313551	112.6884537	1359.40328	811.3648447
847	757.04	42.64519785	112.7870254	1359.189547	811.1775552
848	757.81	42.68724785	112.8855405	1358.976487	810.990775
849	758.59	42.72928551	112.983999	1358.764096	810.8045018
850	759.36	42.77131085	113.082401	1358.552372	810.618733
851	760.13	42.81332386	113.1807465	1358.341311	810.4334663
852	760.90	42.85532456	113.2790355	1358.13091	810.2486992
853	761.68	42.89731296	113.377268	1357.921166	810.0644292
854	762.45	42.93928905	113.475444	1357.712075	809.8806541
855	763.22	42.98125285	113.5735636	1357.503635	809.6973713
856	763.99	43.02320436	113.6716268	1357.295843	809.5145785

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
857	764.77	43.06514359	113.7696337	1357.088696	809.3322733
858	765.54	43.10707055	113.8675841	1356.882189	809.1504534
859	766.31	43.14898523	113.9654783	1356.676321	808.9691165
860	767.08	43.19088766	114.0633161	1356.471089	808.7882601
861	767.85	43.23277783	114.1610977	1356.266489	808.6078821
862	768.62	43.27465575	114.258823	1356.062518	808.42798
863	769.39	43.31652143	114.356492	1355.859174	808.2485516
864	770.16	43.35837487	114.4541048	1355.656453	808.0695946
865	770.93	43.40021609	114.5516615	1355.454352	807.8911068
866	771.70	43.44204508	114.649162	1355.252869	807.7130859
867	772.47	43.48386186	114.7466063	1355.052001	807.5355297
868	773.24	43.52566643	114.8439945	1354.851744	807.3584359
869	774.01	43.56745879	114.9413266	1354.652096	807.1818023
870	774.78	43.60923896	115.0386026	1354.453054	807.0056268
871	775.55	43.65100694	115.1358226	1354.254616	806.8299071
872	776.32	43.69276273	115.2329866	1354.056777	806.6546411
873	777.09	43.73450635	115.3300945	1353.859536	806.4798266
874	777.86	43.77623779	115.4271465	1353.66289	806.3054615
875	778.63	43.81795707	115.5241426	1353.466836	806.1315436
876	779.40	43.85966419	115.6210826	1353.271371	805.9580708
877	780.17	43.90135916	115.7179668	1353.076492	805.7850411
878	780.94	43.94304198	115.8147951	1352.882197	805.6124522
879	781.70	43.98471267	115.9115675	1352.688483	805.4403022
880	782.47	44.02637122	116.0082841	1352.495347	805.2685889
881	783.24	44.06801764	116.1049449	1352.302787	805.0973103
882	784.01	44.10965195	116.2015499	1352.1108	804.9264644
883	784.77	44.15127414	116.2980991	1351.919383	804.7560491
884	785.54	44.19288422	116.3945926	1351.728534	804.5860624
885	786.31	44.2344822	116.4910303	1351.538249	804.4165023
886	787.08	44.27606808	116.5874124	1351.348527	804.2473668
887	787.84	44.31764188	116.6837388	1351.159365	804.0786539
888	788.61	44.35920359	116.7800095	1350.97076	803.9103616
889	789.38	44.40075322	116.8762246	1350.78271	803.742488
890	790.14	44.44229079	116.9723841	1350.595212	803.5750312
891	790.91	44.48381629	117.068488	1350.408264	803.4079891
892	791.67	44.52532973	117.1645364	1350.221862	803.24136
893	792.44	44.56683112	117.2605292	1350.036006	803.0751418
894	793.21	44.60832047	117.3564665	1349.850691	802.9093326
895	793.97	44.64979777	117.4523483	1349.665916	802.7439307
896	794.74	44.69126304	117.5481747	1349.481679	802.578934
897	795.50	44.73271629	117.6439456	1349.297976	802.4143408

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
898	796.27	44.77415751	117.7396611	1349.114805	802.2501491
899	797.03	44.81558672	117.8353212	1348.932164	802.0863572
900	797.80	44.85700392	117.9309259	1348.750051	801.9229632
901	798.56	44.89840911	118.0264753	1348.568463	801.7599653
902	799.33	44.93980231	118.1219694	1348.387398	801.5973616
903	800.09	44.98118351	118.2174081	1348.206854	801.4351505
904	800.85	45.02255274	118.3127916	1348.026827	801.27333
905	801.62	45.06390998	118.4081198	1347.847316	801.1118985
906	802.38	45.10525525	118.5033928	1347.668319	800.9508541
907	803.15	45.14658855	118.5986106	1347.489833	800.7901952
908	803.91	45.18790989	118.6937732	1347.311856	800.6299199
909	804.67	45.22921928	118.7888807	1347.134386	800.4700265
910	805.44	45.27051672	118.883933	1346.95742	800.3105133
911	806.20	45.31180221	118.9789302	1346.780956	800.1513786
912	806.96	45.35307577	119.0738723	1346.604992	799.9926208
913	807.72	45.39433739	119.1687593	1346.429525	799.834238
914	808.49	45.43558709	119.2635913	1346.254555	799.6762286
915	809.25	45.47682487	119.3583682	1346.080077	799.5185911
916	810.01	45.51805074	119.4530902	1345.906091	799.3613236
917	810.77	45.5592647	119.5477572	1345.732594	799.2044245
918	811.54	45.60046676	119.6423692	1345.559584	799.0478923
919	812.30	45.64165692	119.7369263	1345.387058	798.8917253
920	813.06	45.68283519	119.8314285	1345.215015	798.7359218
921	813.82	45.72400157	119.9258758	1345.043453	798.5804803
922	814.58	45.76515608	120.0202683	1344.872368	798.4253991
923	815.34	45.80629872	120.1146059	1344.701761	798.2706767
924	816.11	45.84742948	120.2088887	1344.531627	798.1163114
925	816.87	45.88854839	120.3031167	1344.361966	797.9623018
926	817.63	45.92965544	120.39729	1344.192774	797.8086462
927	818.39	45.97075064	120.4914085	1344.024051	797.6553432
928	819.15	46.011834	120.5854723	1343.855794	797.5023911
929	819.91	46.05290552	120.6794814	1343.688001	797.3497884
930	820.67	46.0939652	120.7734358	1343.52067	797.1975336
931	821.43	46.13501306	120.8673355	1343.353799	797.0456252
932	822.19	46.1760491	120.9611807	1343.187387	796.8940616
933	822.95	46.21707332	121.0549712	1343.02143	796.7428415
934	823.71	46.25808573	121.1487071	1342.855928	796.5919632
935	824.47	46.29908634	121.2423885	1342.690878	796.4414254
936	825.23	46.34007514	121.3360154	1342.526278	796.2912265
937	825.99	46.38105216	121.4295877	1342.362126	796.141365
938	826.75	46.42201738	121.5231056	1342.198421	795.9918396

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
939	827.50	46.46297083	121.6165689	1342.035161	795.8426488
940	828.26	46.5039125	121.7099779	1341.872343	795.6937912
941	829.02	46.54484239	121.8033324	1341.709966	795.5452652
942	829.78	46.58576053	121.8966325	1341.548029	795.3970696
943	830.54	46.6266669	121.9898783	1341.386528	795.2492028
944	831.30	46.66756152	122.0830697	1341.225462	795.1016635
945	832.06	46.70844438	122.1762067	1341.06483	794.9544504
946	832.81	46.74931551	122.2692895	1340.90463	794.8075619
947	833.57	46.7901749	122.362318	1340.74486	794.6609968
948	834.33	46.83102255	122.4552922	1340.585517	794.5147536
949	835.09	46.87185848	122.5482122	1340.426601	794.3688311
950	835.84	46.91268269	122.6410779	1340.268109	794.2232277
951	836.60	46.95349518	122.7338895	1340.11004	794.0779423
952	837.36	46.99429595	122.8266469	1339.952391	793.9329734
953	838.12	47.03508503	122.9193502	1339.795162	793.7883198
954	838.87	47.0758624	123.0119993	1339.63835	793.6439801
955	839.63	47.11662808	123.1045944	1339.481954	793.499953
956	840.39	47.15738207	123.1971353	1339.325972	793.3562371
957	841.14	47.19812438	123.2896222	1339.170403	793.2128313
958	841.90	47.238855	123.3820551	1339.015243	793.0697341
959	842.65	47.27957396	123.474434	1338.860493	792.9269444
960	843.41	47.32028124	123.5667589	1338.70615	792.7844608
961	844.17	47.36097686	123.6590299	1338.552212	792.642282
962	844.92	47.40166083	123.7512469	1338.398678	792.5004068
963	845.68	47.44233314	123.8434099	1338.245547	792.358834
964	846.43	47.48299381	123.9355191	1338.092816	792.2175623
965	847.19	47.52364283	124.0275745	1337.940484	792.0765904
966	847.94	47.56428022	124.1195759	1337.788549	791.9359172
967	848.70	47.60490598	124.2115236	1337.63701	791.7955413
968	849.45	47.64552011	124.3034175	1337.485865	791.6554616
969	850.21	47.68612262	124.3952575	1337.335112	791.5156769
970	850.96	47.72671351	124.4870439	1337.184751	791.3761859
971	851.72	47.76729279	124.5787765	1337.034779	791.2369875
972	852.47	47.80786047	124.6704554	1336.885194	791.0980804
973	853.23	47.84841655	124.7620806	1336.735996	790.9594635
974	853.98	47.88896103	124.8536521	1336.587182	790.8211356
975	854.73	47.92949392	124.94517	1336.438751	790.6830955
976	855.49	47.97001523	125.0366343	1336.290702	790.545342
977	856.24	48.01052495	125.128045	1336.143033	790.407874
978	857.00	48.05102311	125.2194021	1335.995742	790.2706904
979	857.75	48.09150969	125.3107057	1335.848828	790.13379

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
980	858.50	48.1319847	125.4019557	1335.70229	789.9971716
981	859.26	48.17244816	125.4931523	1335.556126	789.8608341
982	860.01	48.21290006	125.5842953	1335.410334	789.7247764
983	860.76	48.25334041	125.675385	1335.264913	789.5889974
984	861.52	48.29376922	125.7664211	1335.119862	789.4534959
985	862.27	48.33418649	125.8574039	1334.975179	789.3182709
986	863.02	48.37459222	125.9483333	1334.830862	789.1833212
987	863.77	48.41498642	126.0392093	1334.686911	789.0486457
988	864.53	48.4553691	126.130032	1334.543323	788.9142434
989	865.28	48.49574026	126.2208013	1334.400097	788.7801131
990	866.03	48.5360999	126.3115174	1334.257233	788.6462538
991	866.78	48.57644803	126.4021802	1334.114728	788.5126644
992	867.53	48.61678466	126.4927897	1333.972581	788.3793439
993	868.29	48.65710978	126.583346	1333.83079	788.2462911
994	869.04	48.69742341	126.6738491	1333.689355	788.113505
995	869.79	48.73772555	126.7642991	1333.548274	787.9809847
996	870.54	48.7780162	126.8546958	1333.407545	787.8487289
997	871.29	48.81829537	126.9450395	1333.267167	787.7167367
998	872.04	48.85856307	127.03533	1333.127139	787.5850071
999	872.79	48.89881929	127.1255674	1332.987459	787.453539
1000	873.54	48.93906405	127.2157518	1332.848126	787.3223314
1001	874.29	48.97929734	127.3058831	1332.709139	787.1913833
1002	875.04	49.01951918	127.3959614	1332.570497	787.0606937
1003	875.80	49.05972956	127.4859867	1332.432197	786.9302615
1004	876.55	49.0999285	127.575959	1332.294239	786.8000858
1005	877.30	49.14011599	127.6658784	1332.156622	786.6701655
1006	878.05	49.18029204	127.7557449	1332.019343	786.5404998
1007	878.80	49.22045666	127.8455584	1331.882402	786.4110875
1008	879.55	49.26060985	127.9353191	1331.745798	786.2819278
1009	880.30	49.30075162	128.0250269	1331.609529	786.1530196
1010	881.04	49.34088197	128.1146818	1331.473594	786.024362
1011	881.79	49.3810009	128.204284	1331.337991	785.8959539
1012	882.54	49.42110842	128.2938333	1331.20272	785.7677946
1013	883.29	49.46120453	128.3833299	1331.067779	785.6398829
1014	884.04	49.50128925	128.4727737	1330.933166	785.512218
1015	884.79	49.54136256	128.5621648	1330.798882	785.3847988
1016	885.54	49.58142449	128.6515032	1330.664923	785.2576246
1017	886.29	49.62147502	128.740789	1330.53129	785.1306942
1018	887.04	49.66151418	128.8300221	1330.39798	785.0040069
1019	887.79	49.70154195	128.9192025	1330.264994	784.8775617
1020	888.53	49.74155835	129.0083303	1330.132328	784.7513576

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1021	889.28	49.78156338	129.0974056	1329.999983	784.6253937
1022	890.03	49.82155705	129.1864283	1329.867957	784.4996692
1023	890.78	49.86153935	129.2753984	1329.736249	784.3741831
1024	891.53	49.9015103	129.3643161	1329.604857	784.2489345
1025	892.27	49.9414699	129.4531812	1329.473781	784.1239226
1026	893.02	49.98141815	129.5419939	1329.343019	783.9991464
1027	893.77	50.02135505	129.6307541	1329.212571	783.8746051
1028	894.52	50.06128062	129.7194619	1329.082434	783.7502977
1029	895.26	50.10119486	129.8081173	1328.952607	783.6262235
1030	896.01	50.14109776	129.8967203	1328.823091	783.5023814
1031	896.76	50.18098934	129.9852709	1328.693883	783.3787707
1032	897.50	50.2208696	130.0737693	1328.564982	783.2553905
1033	898.25	50.26073855	130.1622153	1328.436387	783.13224
1034	899.00	50.30059618	130.250609	1328.308098	783.0093182
1035	899.74	50.3404425	130.3389505	1328.180112	782.8866243
1036	900.49	50.38027752	130.4272397	1328.052429	782.7641575
1037	901.24	50.42010124	130.5154767	1327.925048	782.641917
1038	901.98	50.45991367	130.6036615	1327.797967	782.5199018
1039	902.73	50.4997148	130.6917941	1327.671186	782.3981112
1040	903.48	50.53950465	130.7798746	1327.544703	782.2765444
1041	904.22	50.57928322	130.867903	1327.418518	782.1552005
1042	904.97	50.61905051	130.9558792	1327.292628	782.0340786
1043	905.71	50.65880653	131.0438034	1327.167034	781.913178
1044	906.46	50.69855127	131.1316755	1327.041733	781.7924979
1045	907.20	50.73828476	131.2194956	1326.916726	781.6720375
1046	907.95	50.77800698	131.3072636	1326.79201	781.5517959
1047	908.69	50.81771794	131.3949797	1326.667586	781.4317723
1048	909.44	50.85741766	131.4826438	1326.543451	781.311966
1049	910.18	50.89710612	131.570256	1326.419604	781.1923762
1050	910.93	50.93678334	131.6578162	1326.296046	781.073002
1051	911.67	50.97644932	131.7453246	1326.172774	780.9538427
1052	912.42	51.01610407	131.8327811	1326.049787	780.8348975
1053	913.16	51.05574758	131.9201857	1325.927085	780.7161657
1054	913.91	51.09537987	132.0075385	1325.804667	780.5976464
1055	914.65	51.13500093	132.0948395	1325.682531	780.4793389
1056	915.40	51.17461078	132.1820887	1325.560676	780.3612424
1057	916.14	51.21420941	132.2692862	1325.439102	780.2433562
1058	916.88	51.25379682	132.3564319	1325.317808	780.1256794
1059	917.63	51.29337303	132.4435259	1325.196791	780.0082115
1060	918.37	51.33293804	132.5305682	1325.076053	779.8909515
1061	919.12	51.37249185	132.6175589	1324.955591	779.7738988

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1062	919.86	51.41203447	132.7044979	1324.835404	779.6570526
1063	920.60	51.45156589	132.7913853	1324.715492	779.5404122
1064	921.35	51.49108613	132.8782211	1324.595853	779.4239768
1065	922.09	51.53059518	132.9650053	1324.476487	779.3077457
1066	922.83	51.57009306	133.051738	1324.357392	779.1917182
1067	923.57	51.60957976	133.1384191	1324.238568	779.0758935
1068	924.32	51.64905529	133.2250487	1324.120014	778.960271
1069	925.06	51.68851965	133.3116269	1324.001728	778.8448498
1070	925.80	51.72797285	133.3981536	1323.88371	778.7296294
1071	926.55	51.76741489	133.4846289	1323.765959	778.614609
1072	927.29	51.80684577	133.5710527	1323.648474	778.4997878
1073	928.03	51.84626551	133.6574252	1323.531254	778.3851653
1074	928.77	51.8856741	133.7437463	1323.414298	778.2707406
1075	929.51	51.92507154	133.8300161	1323.297604	778.156513
1076	930.26	51.96445785	133.9162345	1323.181173	778.042482
1077	931.00	52.00383301	134.0024017	1323.065003	777.9286468
1078	931.74	52.04319705	134.0885175	1322.949094	777.8150066
1079	932.48	52.08254996	134.1745822	1322.833444	777.7015609
1080	933.22	52.12189175	134.2605956	1322.718052	777.588309
1081	933.96	52.16122241	134.3465578	1322.602918	777.4752501
1082	934.71	52.20054196	134.4324688	1322.488041	777.3623836
1083	935.45	52.2398504	134.5183287	1322.373419	777.2497088
1084	936.19	52.27914772	134.6041374	1322.259053	777.1372251
1085	936.93	52.31843395	134.689895	1322.14494	777.0249318
1086	937.67	52.35770907	134.7756015	1322.031081	776.9128282
1087	938.41	52.39697309	134.861257	1321.917473	776.8009137
1088	939.15	52.43622602	134.9468615	1321.804118	776.6891876
1089	939.89	52.47546786	135.0324149	1321.691012	776.5776492
1090	940.63	52.51469862	135.1179173	1321.578157	776.466298
1091	941.37	52.55391829	135.2033688	1321.46555	776.3551333
1092	942.11	52.59312688	135.2887693	1321.353191	776.2441543
1093	942.85	52.6323244	135.3741189	1321.24108	776.1333606
1094	943.59	52.67151085	135.4594176	1321.129214	776.0227514
1095	944.33	52.71068622	135.5446654	1321.017594	775.9123262
1096	945.07	52.74985054	135.6298624	1320.906219	775.8020842
1097	945.81	52.78900379	135.7150085	1320.795087	775.6920249
1098	946.55	52.82814599	135.8001038	1320.684198	775.5821477
1099	947.29	52.86727714	135.8851484	1320.573552	775.4724518
1100	948.03	52.90639723	135.9701422	1320.463146	775.3629368
1101	948.77	52.94550629	136.0550852	1320.352981	775.2536019
1102	949.51	52.98460429	136.1399776	1320.243056	775.1444466

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1103	950.25	53.02369126	136.2248192	1320.133369	775.0354703
1104	950.99	53.0627672	136.3096102	1320.02392	774.9266723
1105	951.73	53.1018321	136.3943506	1319.914709	774.8180521
1106	952.46	53.14088598	136.4790403	1319.805734	774.709609
1107	953.20	53.17992883	136.5636794	1319.696994	774.6013424
1108	953.94	53.21896067	136.648268	1319.588489	774.4932519
1109	954.68	53.25798148	136.732806	1319.480218	774.3853366
1110	955.42	53.29699128	136.8172935	1319.372181	774.2775962
1111	956.16	53.33599007	136.9017305	1319.264376	774.1700299
1112	956.90	53.37497786	136.9861171	1319.156802	774.0626372
1113	957.63	53.41395464	137.0704531	1319.04946	773.9554175
1114	958.37	53.45292043	137.1547388	1318.942347	773.8483703
1115	959.11	53.49187522	137.238974	1318.835464	773.7414949
1116	959.85	53.53081901	137.3231589	1318.728809	773.6347908
1117	960.58	53.56975182	137.4072934	1318.622382	773.5282574
1118	961.32	53.60867364	137.4913775	1318.516182	773.4218941
1119	962.06	53.64758448	137.5754114	1318.410209	773.3157004
1120	962.80	53.68648434	137.6593949	1318.304461	773.2096758
1121	963.53	53.72537323	137.7433283	1318.198937	773.1038196
1122	964.27	53.76425115	137.8272113	1318.093638	772.9981312
1123	965.01	53.80311809	137.9110442	1317.988562	772.8926102
1124	965.75	53.84197408	137.9948268	1317.883708	772.787256
1125	966.48	53.8808191	138.0785593	1317.779077	772.682068
1126	967.22	53.91965316	138.1622417	1317.674666	772.5770457
1127	967.96	53.95847627	138.2458739	1317.570476	772.4721885
1128	968.69	53.99728843	138.329456	1317.466505	772.367496
1129	969.43	54.03608964	138.4129881	1317.362753	772.2629674
1130	970.16	54.07487991	138.4964701	1317.25922	772.1586024
1131	970.90	54.11365924	138.579902	1317.155903	772.0544003
1132	971.64	54.15242763	138.663284	1317.052804	771.9503607
1133	972.37	54.19118508	138.746616	1316.94992	771.846483
1134	973.11	54.22993161	138.8298981	1316.847252	771.7427667
1135	973.84	54.2686672	138.9131302	1316.744799	771.6392112
1136	974.58	54.30739188	138.9963124	1316.642559	771.5358161
1137	975.32	54.34610563	139.0794447	1316.540533	771.4325808
1138	976.05	54.38480846	139.1625272	1316.438719	771.3295047
1139	976.79	54.42350038	139.2455598	1316.337117	771.2265874
1140	977.52	54.46218139	139.3285427	1316.235726	771.1238284
1141	978.26	54.5008515	139.4114757	1316.134546	771.0212271
1142	978.99	54.53951069	139.494359	1316.033575	770.918783
1143	979.73	54.57815899	139.5771925	1315.932813	770.8164957

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1144	980.46	54.61679639	139.6599763	1315.83226	770.7143646
1145	981.20	54.65542289	139.7427105	1315.731915	770.6123892
1146	981.93	54.69403851	139.8253949	1315.631776	770.510569
1147	982.67	54.73264323	139.9080298	1315.531844	770.4089035
1148	983.40	54.77123707	139.990615	1315.432118	770.3073922
1149	984.14	54.80982003	140.0731506	1315.332597	770.2060346
1150	984.87	54.84839211	140.1556366	1315.23328	770.1048303
1151	985.60	54.88695332	140.2380731	1315.134167	770.0037787
1152	986.34	54.92550365	140.3204601	1315.035257	769.9028793
1153	987.07	54.96404312	140.4027976	1314.93655	769.8021317
1154	987.81	55.00257172	140.4850856	1314.838044	769.7015354
1155	988.54	55.04108946	140.5673242	1314.73974	769.6010899
1156	989.27	55.07959634	140.6495133	1314.641636	769.5007947
1157	990.01	55.11809236	140.731653	1314.543732	769.4006493
1158	990.74	55.15657753	140.8137434	1314.446027	769.3006533
1159	991.48	55.19505185	140.8957844	1314.34852	769.2008062
1160	992.21	55.23351532	140.9777761	1314.251212	769.1011075
1161	992.94	55.27196795	141.0597185	1314.154101	769.0015567
1162	993.68	55.31040974	141.1416116	1314.057187	768.9021534
1163	994.41	55.34884069	141.2234554	1313.960468	768.8028971
1164	995.14	55.38726081	141.30525	1313.863946	768.7037874
1165	995.87	55.4256701	141.3869954	1313.767618	768.6048237
1166	996.61	55.46406856	141.4686916	1313.671484	768.5060057
1167	997.34	55.5024562	141.5503387	1313.575544	768.4073329
1168	998.07	55.54083301	141.6319366	1313.479797	768.3088047
1169	998.81	55.579199	141.7134855	1313.384242	768.2104209
1170	999.54	55.61755418	141.7949852	1313.288879	768.1121808
1171	1000.27	55.65589855	141.8764359	1313.193708	768.0140841
1172	1001.00	55.69423211	141.9578375	1313.098727	767.9161303
1173	1001.73	55.73255486	142.0391902	1313.003936	767.818319
1174	1002.47	55.77086681	142.1204938	1312.909334	767.7206497
1175	1003.20	55.80916796	142.2017485	1312.814921	767.6231219
1176	1003.93	55.84745831	142.2829543	1312.720696	767.5257353
1177	1004.66	55.88573787	142.3641111	1312.626659	767.4284895
1178	1005.39	55.92400664	142.4452191	1312.532809	767.3313838
1179	1006.13	55.96226461	142.5262782	1312.439146	767.234418
1180	1006.86	56.00051181	142.6072884	1312.345668	767.1375917
1181	1007.59	56.03874822	142.6882499	1312.252375	767.0409042
1182	1008.32	56.07697385	142.7691625	1312.159268	766.9443553
1183	1009.05	56.11518871	142.8500264	1312.066344	766.8479446
1184	1009.78	56.15339279	142.9308415	1311.973604	766.7516715

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1185	1010.51	56.1915861	143.011608	1311.881047	766.6555356
1186	1011.24	56.22976865	143.0923257	1311.788673	766.5595366
1187	1011.98	56.26794043	143.1729948	1311.69648	766.4636741
1188	1012.71	56.30610145	143.2536152	1311.604469	766.3679475
1189	1013.44	56.34425172	143.334187	1311.512638	766.2723565
1190	1014.17	56.38239123	143.4147102	1311.420988	766.1769007
1191	1014.90	56.42051998	143.4951849	1311.329517	766.0815796
1192	1015.63	56.45863799	143.575611	1311.238226	765.9863929
1193	1016.36	56.49674525	143.6559886	1311.147113	765.8913401
1194	1017.09	56.53484176	143.7363177	1311.056178	765.7964209
1195	1017.82	56.57292754	143.8165984	1310.96542	765.7016348
1196	1018.55	56.61100258	143.8968306	1310.874839	765.6069814
1197	1019.28	56.64906688	143.9770144	1310.784435	765.5124603
1198	1020.01	56.68712045	144.0571497	1310.694206	765.4180711
1199	1020.74	56.7251633	144.1372368	1310.604153	765.3238134
1200	1021.47	56.76319541	144.2172754	1310.514275	765.2296869
1201	1022.20	56.80121681	144.2972658	1310.424571	765.1356911
1202	1022.93	56.83922748	144.3772079	1310.33504	765.0418256
1203	1023.66	56.87722744	144.4571017	1310.245683	764.94809
1204	1024.39	56.91521668	144.5369472	1310.156498	764.854484
1205	1025.12	56.95319521	144.6167446	1310.067485	764.7610071
1206	1025.85	56.99116303	144.6964937	1309.978644	764.667659
1207	1026.57	57.02912015	144.7761947	1309.889974	764.5744393
1208	1027.30	57.06706656	144.8558476	1309.801475	764.4813475
1209	1028.03	57.10500227	144.9354523	1309.713145	764.3883834
1210	1028.76	57.14292729	145.0150089	1309.624986	764.2955465
1211	1029.49	57.18084161	145.0945175	1309.536995	764.2028365
1212	1030.22	57.21874524	145.173978	1309.449173	764.1102529
1213	1030.95	57.25663818	145.2533905	1309.361518	764.0177954
1214	1031.68	57.29452044	145.3327551	1309.274032	763.9254637
1215	1032.40	57.33239201	145.4120716	1309.186712	763.8332572
1216	1033.13	57.3702529	145.4913402	1309.099558	763.7411758
1217	1033.86	57.40810311	145.5705609	1309.012571	763.649219
1218	1034.59	57.44594265	145.6497337	1308.925749	763.5573864
1219	1035.32	57.48377152	145.7288587	1308.839093	763.4656776
1220	1036.04	57.52158972	145.8079358	1308.7526	763.3740924
1221	1036.77	57.55939725	145.8869651	1308.666272	763.2826303
1222	1037.50	57.59719412	145.9659466	1308.580107	763.1912909
1223	1038.23	57.63498032	146.0448804	1308.494106	763.100074
1224	1038.96	57.67275587	146.1237664	1308.408266	763.0089791
1225	1039.68	57.71052077	146.2026047	1308.322589	762.9180059

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1226	1040.41	57.74827501	146.2813953	1308.237074	0
1227	1040.41	57.7860186	146.3601382	1100.826834	0
1228	1040.41	57.82595571	146.4456923	954.2263671	0
1229	1040.41	57.86743946	146.536043	850.7695064	0
1230	1040.41	57.91001082	146.6297606	777.853922	0
1231	1040.41	57.95334483	146.7258331	726.5203506	0
1232	1040.41	57.99721181	146.823545	690.415955	0
1233	1040.41	58.0414497	146.9223915	665.045105	0
1234	1040.41	58.08594424	147.0220168	647.2315199	0
1235	1040.41	58.13061499	147.1221704	634.7340151	0
1236	1040.41	58.17540537	147.2226759	625.9729638	0
1237	1040.41	58.22027559	147.3234094	619.8360938	0
1238	1040.41	58.26519772	147.4242839	615.5408943	0
1239	1040.41	58.31015216	147.5252384	612.5372896	0
1240	1040.41	58.35512515	147.62623	610.4388874	0
1241	1040.41	58.40010706	147.7272287	608.974467	0
1242	1040.41	58.44509114	147.8282135	607.9537822	0
1243	1040.41	58.49007267	147.9291698	607.2434764	0
1244	1040.41	58.53504836	148.0300873	606.7501331	0
1245	1040.41	58.5800159	148.1309588	606.4083569	0
1246	1040.41	58.62497367	148.2317792	606.1723986	0
1247	1040.41	58.66992057	148.3325453	606.0102737	0
1248	1040.41	58.71485581	148.4332545	605.8996354	0
1249	1040.41	58.75977886	148.5339051	605.8248807	0
1250	1040.41	58.80468933	148.6344961	605.7751226	0
1251	1040.41	58.84958696	148.7350266	605.742769	0
1252	1040.41	58.89447159	148.8354961	605.7225296	0
1253	1040.41	58.93934308	148.9359042	605.7107199	0
1254	1040.41	58.98420135	149.0362508	605.7047757	0
1255	1040.41	59.02904636	149.1365356	605.7029135	0
1256	1040.41	59.07387806	149.2367586	605.7038938	0
1257	1040.41	59.11869644	149.3369196	605.7068553	0
1258	1040.41	59.16350147	149.4370188	605.7112005	0
1259	1040.41	59.20829315	149.5370561	605.7165145	0
1260	1040.41	59.25307148	149.6370314	605.7225098	0
1261	1040.41	59.29783646	149.7369449	605.7289874	0
1262	1040.41	59.34258809	149.8367965	605.735809	0
1263	1040.41	59.38732638	149.9365864	605.7428794	0
1264	1040.41	59.43205132	150.0363144	605.7501324	0
1265	1040.41	59.47676293	150.1359806	605.7575224	0
1266	1040.41	59.52146121	150.2355852	605.7650178	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1267	1040.41	59.56614616	150.3351281	605.7725968	0
1268	1040.41	59.6108178	150.4346094	605.7802442	0
1269	1040.41	59.65547613	150.5340291	605.7879498	0
1270	1040.41	59.70012116	150.6333872	605.7957062	0
1271	1040.41	59.74475289	150.7326838	605.8035084	0
1272	1040.41	59.78937133	150.831919	605.811353	0
1273	1040.41	59.83397648	150.9310928	605.8192377	0
1274	1040.41	59.87856836	151.0302051	605.8271606	0
1275	1040.41	59.92314697	151.1292562	605.8351205	0
1276	1040.41	59.96771232	151.2282459	605.8431168	0
1277	1040.41	60.01226441	151.3271744	605.8511486	0
1278	1040.41	60.05680326	151.4260417	605.8592156	0
1279	1040.41	60.10132886	151.5248478	605.8673174	0
1280	1040.41	60.14584122	151.6235928	605.8754538	0
1281	1040.41	60.19034036	151.7222767	605.8836245	0
1282	1040.41	60.23482628	151.8208995	605.8918294	0
1283	1040.41	60.27929898	151.9194614	605.9000683	0
1284	1040.41	60.32375847	152.0179623	605.908341	0
1285	1040.41	60.36820476	152.1164023	605.9166475	0
1286	1040.41	60.41263786	152.2147814	605.9249876	0
1287	1040.41	60.45705776	152.3130997	605.9333612	0
1288	1040.41	60.50146449	152.4113572	605.9417682	0
1289	1040.41	60.54585804	152.5095539	605.9502086	0
1290	1040.41	60.59023842	152.60769	605.9586821	0
1291	1040.41	60.63460564	152.7057653	605.9671887	0
1292	1040.41	60.67895971	152.8037801	605.9757283	0
1293	1040.41	60.72330062	152.9017342	605.9843008	0
1294	1040.41	60.7676284	152.9996279	605.9929061	0
1295	1040.41	60.81194304	153.097461	606.0015441	0
1296	1040.41	60.85624455	153.1952337	606.0102147	0
1297	1040.41	60.90053293	153.2929459	606.0189178	0
1298	1040.41	60.9448082	153.3905978	606.0276533	0
1299	1040.41	60.98907036	153.4881894	606.0364211	0
1300	1040.41	61.03331942	153.5857206	606.0452212	0
1301	1040.41	61.07755538	153.6831917	606.0540533	0
1302	1040.41	61.12177825	153.7806025	606.0629175	0
1303	1040.41	61.16598804	153.8779531	606.0718136	0
1304	1040.41	61.21018475	153.9752437	606.0807415	0
1305	1040.41	61.25436839	154.0724741	606.0897012	0
1306	1040.41	61.29853896	154.1696445	606.0986925	0
1307	1040.41	61.34269648	154.2667549	606.1077154	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1308	1040.41	61.38684094	154.3638054	606.1167697	0
1309	1040.41	61.43097236	154.4607959	606.1258554	0
1310	1040.41	61.47509074	154.5577266	606.1349723	0
1311	1040.41	61.51919608	154.6545974	606.1441205	0
1312	1040.41	61.5632884	154.7514084	606.1532997	0
1313	1040.41	61.6073677	154.8481597	606.1625099	0
1314	1040.41	61.65143398	154.9448513	606.171751	0
1315	1040.41	61.69548726	155.0414833	606.1810229	0
1316	1040.41	61.73952753	155.1380556	606.1903256	0
1317	1040.41	61.78355481	155.2345683	606.1996588	0
1318	1040.41	61.8275691	155.3310214	606.2090227	0
1319	1040.41	61.87157041	155.4274151	606.2184169	0
1320	1040.41	61.91555874	155.5237493	606.2278415	0
1321	1040.41	61.95953409	155.6200241	606.2372964	0
1322	1040.41	62.00349649	155.7162396	606.2467815	0
1323	1040.41	62.04744592	155.8123957	606.2562967	0
1324	1040.41	62.0913824	155.9084925	606.2658419	0
1325	1040.41	62.13530594	156.00453	606.2754169	0
1326	1040.41	62.17921654	156.1005083	606.2850219	0
1327	1040.41	62.2231142	156.1964275	606.2946565	0
1328	1040.41	62.26699893	156.2922876	606.3043208	0
1329	1040.41	62.31087075	156.3880885	606.3140147	0
1330	1040.41	62.35472964	156.4838304	606.323738	0
1331	1040.41	62.39857563	156.5795133	606.3334908	0
1332	1040.41	62.44240871	156.6751373	606.3432728	0
1333	1040.41	62.4862289	156.7707023	606.3530841	0
1334	1040.41	62.53003619	156.8662085	606.3629245	0
1335	1040.41	62.5738306	156.9616558	606.372794	0
1336	1040.41	62.61761213	157.0570443	606.3826924	0
1337	1040.41	62.66138078	157.152374	606.3926197	0
1338	1040.41	62.70513657	157.2476451	606.4025758	0
1339	1040.41	62.74887949	157.3428575	606.4125606	0
1340	1040.41	62.79260956	157.4380112	606.422574	0
1341	1040.41	62.83632678	157.5331063	606.432616	0
1342	1040.41	62.88003115	157.6281429	606.4426864	0
1343	1040.41	62.92372269	157.723121	606.4527852	0
1344	1040.41	62.96740139	157.8180407	606.4629123	0
1345	1040.41	63.01106727	157.9129019	606.4730676	0
1346	1040.41	63.05472032	158.0077047	606.4832511	0
1347	1040.41	63.09836056	158.1024492	606.4934626	0
1348	1040.41	63.141988	158.1971353	606.503702	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1349	1040.41	63.18560263	158.2917633	606.5139694	0
1350	1040.41	63.22920446	158.386333	606.5242645	0
1351	1040.41	63.2727935	158.4808445	606.5345874	0
1352	1040.41	63.31636975	158.5752979	606.5449379	0
1353	1040.41	63.35993323	158.6696931	606.555316	0
1354	1040.41	63.40348393	158.7640304	606.5657215	0
1355	1040.41	63.44702186	158.8583096	606.5761545	0
1356	1040.41	63.49054703	158.9525308	606.5866147	0
1357	1040.41	63.53405945	159.0466942	606.5971022	0
1358	1040.41	63.57755911	159.1407996	606.6076169	0
1359	1040.41	63.62104602	159.2348472	606.6181587	0
1360	1040.41	63.6645202	159.3288369	606.6287274	0
1361	1040.41	63.70798165	159.4227689	606.6393231	0
1362	1040.41	63.75143036	159.5166432	606.6499457	0
1363	1040.41	63.79486635	159.6104598	606.660595	0
1364	1040.41	63.83828963	159.7042188	606.671271	0
1365	1040.41	63.88170019	159.7979201	606.6819736	0
1366	1040.41	63.92509805	159.8915639	606.6927027	0
1367	1040.41	63.96848321	159.9851502	606.7034584	0
1368	1040.41	64.01185568	160.078679	606.7142404	0
1369	1040.41	64.05521545	160.1721504	606.7250487	0
1370	1040.41	64.09856255	160.2655643	606.7358832	0
1371	1040.41	64.14189696	160.3589209	606.7467439	0
1372	1040.41	64.18521871	160.4522202	606.7576307	0
1373	1040.41	64.22852779	160.5454623	606.7685435	0
1374	1040.41	64.27182421	160.6386471	606.7794822	0
1375	1040.41	64.31510797	160.7317747	606.7904467	0
1376	1040.41	64.35837908	160.8248451	606.8014371	0
1377	1040.41	64.40163755	160.9178585	606.8124531	0
1378	1040.41	64.44488338	161.0108148	606.8234948	0
1379	1040.41	64.48811658	161.103714	606.8345621	0
1380	1040.41	64.53133716	161.1965563	606.8456548	0
1381	1040.41	64.57454511	161.2893416	606.8567729	0
1382	1040.41	64.61774044	161.3820701	606.8679164	0
1383	1040.41	64.66092316	161.4747417	606.8790851	0
1384	1040.41	64.70409328	161.5673564	606.8902791	0
1385	1040.41	64.7472508	161.6599144	606.9014981	0
1386	1040.41	64.79039572	161.7524156	606.9127422	0
1387	1040.41	64.83352806	161.8448602	606.9240113	0
1388	1040.41	64.87664781	161.9372481	606.9353052	0
1389	1040.41	64.91975499	162.0295793	606.946624	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1390	1040.41	64.96284959	162.121854	606.9579676	0
1391	1040.41	65.00593163	162.2140722	606.9693358	0
1392	1040.41	65.0490011	162.3062339	606.9807287	0
1393	1040.41	65.09205802	162.3983391	606.9921461	0
1394	1040.41	65.13510239	162.4903879	607.003588	0
1395	1040.41	65.17813421	162.5823804	607.0150543	0
1396	1040.41	65.2211535	162.6743165	607.0265449	0
1397	1040.41	65.26416025	162.7661964	607.0380598	0
1398	1040.41	65.30715447	162.85802	607.0495988	0
1399	1040.41	65.35013616	162.9497874	607.061162	0
1400	1040.41	65.39310534	163.0414986	607.0727493	0
1401	1040.41	65.43606201	163.1331538	607.0843605	0
1402	1040.41	65.47900617	163.2247528	607.0959957	0
1403	1040.41	65.52193783	163.3162958	607.1076547	0
1404	1040.41	65.56485699	163.4077828	607.1193375	0
1405	1040.41	65.60776366	163.4992139	607.131044	0
1406	1040.41	65.65065784	163.5905891	607.1427741	0
1407	1040.41	65.69353954	163.6819083	607.1545279	0
1408	1040.41	65.73640877	163.7731718	607.1663051	0
1409	1040.41	65.77926553	163.8643794	607.1781057	0
1410	1040.41	65.82210982	163.9555313	607.1899298	0
1411	1040.41	65.86494166	164.0466275	607.2017771	0
1412	1040.41	65.90776104	164.1376681	607.2136477	0
1413	1040.41	65.95056797	164.228653	607.2255415	0
1414	1040.41	65.99336245	164.3195823	607.2374584	0
1415	1040.41	66.0361445	164.4104561	607.2493983	0
1416	1040.41	66.07891412	164.5012744	607.2613612	0
1417	1040.41	66.12167131	164.5920372	607.2733469	0
1418	1040.41	66.16441608	164.6827446	607.2853556	0
1419	1040.41	66.20714843	164.7733966	607.297387	0
1420	1040.41	66.24986837	164.8639933	607.3094411	0
1421	1040.41	66.2925759	164.9545347	607.3215179	0
1422	1040.41	66.33527103	165.0450208	607.3336172	0
1423	1040.41	66.37795377	165.1354518	607.3457391	0
1424	1040.41	66.42062411	165.2258275	607.3578834	0
1425	1040.41	66.46328207	165.3161481	607.3700501	0
1426	1040.41	66.50592765	165.4064137	607.3822392	0
1427	1040.41	66.54856085	165.4966242	607.3944505	0
1428	1040.41	66.59118168	165.5867797	607.406684	0
1429	1040.41	66.63379015	165.6768802	607.4189396	0
1430	1040.41	66.67638626	165.7669258	607.4312173	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1431	1040.41	66.71897002	165.8569165	607.443517	0
1432	1040.41	66.76154142	165.9468524	607.4558386	0
1433	1040.41	66.80410049	166.0367334	607.4681822	0
1434	1040.41	66.84664721	166.1265598	607.4805475	0
1435	1040.41	66.8891816	166.2163314	607.4929346	0
1436	1040.41	66.93170366	166.3060483	607.5053434	0
1437	1040.41	66.9742134	166.3957106	607.5177738	0
1438	1040.41	67.01671082	166.4853183	607.5302258	0
1439	1040.41	67.05919593	166.5748714	607.5426993	0
1440	1040.41	67.10166873	166.6643701	607.5551943	0
1441	1040.41	67.14412923	166.7538142	607.5677106	0
1442	1040.41	67.18657743	166.843204	607.5802483	0
1443	1040.41	67.22901334	166.9325393	607.5928072	0
1444	1040.41	67.27143696	167.0218203	607.6053873	0
1445	1040.41	67.3138483	167.1110471	607.6179886	0
1446	1040.41	67.35624737	167.2002195	607.6306109	0
1447	1040.41	67.39863416	167.2893377	607.6432543	0
1448	1040.41	67.44100868	167.3784018	607.6559186	0
1449	1040.41	67.48337095	167.4674117	607.6686038	0
1450	1040.41	67.52572095	167.5563675	607.6813099	0
1451	1040.41	67.56805871	167.6452693	607.6940368	0
1452	1040.41	67.61038422	167.734117	607.7067843	0
1453	1040.41	67.65269749	167.8229108	607.7195526	0
1454	1040.41	67.69499853	167.9116507	607.7323414	0
1455	1040.41	67.73728733	168.0003366	607.7451508	0
1456	1040.41	67.77956391	168.0889687	607.7579806	0
1457	1040.41	67.82182826	168.177547	607.7708309	0
1458	1040.41	67.86408041	168.2660716	607.7837016	0
1459	1040.41	67.90632034	168.3545424	607.7965926	0
1460	1040.41	67.94854807	168.4429595	607.8095038	0
1461	1040.41	67.99076359	168.531323	607.8224352	0
1462	1040.41	68.03296692	168.6196329	607.8353867	0
1463	1040.41	68.07515807	168.7078893	607.8483584	0
1464	1040.41	68.11733702	168.7960921	607.86135	0
1465	1040.41	68.1595038	168.8842415	607.8743616	0
1466	1040.41	68.2016584	168.9723374	607.8873932	0
1467	1040.41	68.24380083	169.0603799	607.9004445	0
1468	1040.41	68.2859311	169.1483691	607.9135157	0
1469	1040.41	68.32804921	169.236305	607.9266066	0
1470	1040.41	68.37015516	169.3241876	607.9397172	0
1471	1040.41	68.41224897	169.412017	607.9528474	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1472	1040.41	68.45433063	169.4997932	607.9659971	0
1473	1040.41	68.49640015	169.5875163	607.9791664	0
1474	1040.41	68.53845754	169.6751863	607.9923552	0
1475	1040.41	68.58050279	169.7628032	608.0055633	0
1476	1040.41	68.62253593	169.8503671	608.0187908	0
1477	1040.41	68.66455694	169.937878	608.0320376	0
1478	1040.41	68.70656584	170.025336	608.0453036	0
1479	1040.41	68.74856263	170.1127411	608.0585887	0
1480	1040.41	68.79054732	170.2000934	608.071893	0
1481	1040.41	68.83251991	170.2873928	608.0852164	0
1482	1040.41	68.8744804	170.3746395	608.0985588	0
1483	1040.41	68.91642881	170.4618334	608.1119201	0
1484	1040.41	68.95836513	170.5489747	608.1253004	0
1485	1040.41	69.00028937	170.6360633	608.1386995	0
1486	1040.41	69.04220154	170.7230994	608.1521174	0
1487	1040.41	69.08410164	170.8100829	608.165554	0
1488	1040.41	69.12598968	170.8970138	608.1790093	0
1489	1040.41	69.16786566	170.9838923	608.1924833	0
1490	1040.41	69.20972958	171.0707184	608.2059758	0
1491	1040.41	69.25158146	171.157492	608.2194869	0
1492	1040.41	69.29342129	171.2442134	608.2330165	0
1493	1040.41	69.33524908	171.3308824	608.2465644	0
1494	1040.41	69.37706484	171.4174991	608.2601308	0
1495	1040.41	69.41886857	171.5040637	608.2737154	0
1496	1040.41	69.46066028	171.590576	608.2873183	0
1497	1040.41	69.50243997	171.6770362	608.3009395	0
1498	1040.41	69.54420764	171.7634443	608.3145787	0
1499	1040.41	69.58596331	171.8498004	608.3282361	0
1500	1040.41	69.62770697	171.9361044	608.3419116	0
1501	1040.41	69.66943864	172.0223565	608.355605	0
1502	1040.41	69.71115831	172.1085567	608.3693164	0
1503	1040.41	69.75286599	172.1947049	608.3830457	0
1504	1040.41	69.79456169	172.2808013	608.3967929	0
1505	1040.41	69.83624541	172.3668459	608.4105578	0
1506	1040.41	69.87791716	172.4528388	608.4243405	0
1507	1040.41	69.91957694	172.5387799	608.4381408	0
1508	1040.41	69.96122475	172.6246693	608.4519589	0
1509	1040.41	70.00286061	172.7105072	608.4657945	0
1510	1040.41	70.04448451	172.7962934	608.4796476	0
1511	1040.41	70.08609646	172.882028	608.4935183	0
1512	1040.41	70.12769647	172.9677112	608.5074063	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1513	1040.41	70.16928455	173.0533429	608.5213118	0
1514	1040.41	70.21086069	173.1389231	608.5352346	0
1515	1040.41	70.2524249	173.2244516	608.5491747	0
1516	1040.41	70.29397718	173.3099252	608.5631321	0
1517	1040.41	70.33551755	173.395344	608.5771068	0
1518	1040.41	70.37704601	173.480708	608.5910988	0
1519	1040.41	70.41856255	173.5660173	608.6051081	0
1520	1040.41	70.4600672	173.6512719	608.6191348	0
1521	1040.41	70.50155994	173.7364719	608.6331788	0
1522	1040.41	70.54304079	173.8216173	608.6472399	0
1523	1040.41	70.58450976	173.9067081	608.6613183	0
1524	1040.41	70.62596684	173.9917443	608.6754138	0
1525	1040.41	70.66741204	174.0767261	608.6895264	0
1526	1040.41	70.70884537	174.1616535	608.703656	0
1527	1040.41	70.75026683	174.2465264	608.7178027	0
1528	1040.41	70.79167643	174.331345	608.7319663	0
1529	1040.41	70.83307417	174.4161092	608.7461467	0
1530	1040.41	70.87446006	174.5008191	608.7603441	0
1531	1040.41	70.9158341	174.5854748	608.7745582	0
1532	1040.41	70.95719629	174.6700763	608.7887891	0
1533	1040.41	70.99854665	174.7546237	608.8030367	0
1534	1040.41	71.03988518	174.8391169	608.817301	0
1535	1040.41	71.08121188	174.923556	608.8315819	0
1536	1040.41	71.12252675	175.0079411	608.8458793	0
1537	1040.41	71.16382981	175.0922721	608.8601933	0
1538	1040.41	71.20512106	175.1765492	608.8745237	0
1539	1040.41	71.2464005	175.2607724	608.8888706	0
1540	1040.41	71.28766813	175.3449417	608.9032338	0
1541	1040.41	71.32892397	175.4290571	608.9176134	0
1542	1040.41	71.37016802	175.5131188	608.9320093	0
1543	1040.41	71.41140027	175.5971267	608.9464214	0
1544	1040.41	71.45262075	175.6810808	608.9608497	0
1545	1040.41	71.49382945	175.7649813	608.9752941	0
1546	1040.41	71.53502638	175.8488281	608.9897547	0
1547	1040.41	71.57621154	175.9326213	609.0042313	0
1548	1040.41	71.61738494	176.016361	609.0187239	0
1549	1040.41	71.65854658	176.1000471	609.0332324	0
1550	1040.41	71.69969647	176.1836798	609.0477569	0
1551	1040.41	71.74083461	176.267259	609.0622973	0
1552	1040.41	71.78196101	176.3507848	609.0768534	0
1553	1040.41	71.82307567	176.4342572	609.0914254	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1554	1040.41	71.86417861	176.5176763	609.1060131	0
1555	1040.41	71.90526981	176.6010422	609.1206165	0
1556	1040.41	71.9463493	176.6843548	609.1352355	0
1557	1040.41	71.98741707	176.7676142	609.1498702	0
1558	1040.41	72.02847312	176.8508204	609.1645203	0
1559	1040.41	72.06951747	176.9339735	609.179186	0
1560	1040.41	72.11055012	177.0170736	609.1938672	0
1561	1040.41	72.15157108	177.1001206	609.2085638	0
1562	1040.41	72.19258034	177.1831146	609.2232758	0
1563	1040.41	72.23357792	177.2660556	609.238003	0
1564	1040.41	72.27456381	177.3489438	609.2527456	0
1565	1040.41	72.31553803	177.431779	609.2675035	0
1566	1040.41	72.35650058	177.5145615	609.2822765	0
1567	1040.41	72.39745146	177.5972911	609.2970647	0
1568	1040.41	72.43839069	177.679968	609.311868	0
1569	1040.41	72.47931826	177.7625921	609.3266863	0
1570	1040.41	72.52023417	177.8451636	609.3415197	0
1571	1040.41	72.56113845	177.9276825	609.3563681	0
1572	1040.41	72.60203108	178.0101487	609.3712314	0
1573	1040.41	72.64291208	178.0925625	609.3861096	0
1574	1040.41	72.68378145	178.1749237	609.4010027	0
1575	1040.41	72.72463919	178.2572324	609.4159106	0
1576	1040.41	72.76548531	178.3394887	609.4308332	0
1577	1040.41	72.80631982	178.4216926	609.4457706	0
1578	1040.41	72.84714272	178.5038442	609.4607226	0
1579	1040.41	72.88795402	178.5859435	609.4756893	0
1580	1040.41	72.92875372	178.6679905	609.4906706	0
1581	1040.41	72.96954182	178.7499852	609.5056664	0
1582	1040.41	73.01031834	178.8319278	609.5206767	0
1583	1040.41	73.05108327	178.9138183	609.5357015	0
1584	1040.41	73.09183662	178.9956566	609.5507408	0
1585	1040.41	73.1325784	179.0774429	609.5657944	0
1586	1040.41	73.17330861	179.1591772	609.5808623	0
1587	1040.41	73.21402726	179.2408595	609.5959446	0
1588	1040.41	73.25473435	179.3224898	609.6110411	0
1589	1040.41	73.29542988	179.4040683	609.6261518	0
1590	1040.41	73.33611387	179.4855949	609.6412768	0
1591	1040.41	73.37678632	179.5670696	609.6564158	0
1592	1040.41	73.41744723	179.6484926	609.6715689	0
1593	1040.41	73.45809661	179.7298639	609.6867361	0
1594	1040.41	73.49873446	179.8111835	609.7019173	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1595	1040.41	73.53936079	179.8924514	609.7171125	0
1596	1040.41	73.5799756	179.9736677	609.7323215	0
1597	1040.41	73.6205789	180.0548325	609.7475445	0
1598	1040.41	73.6611707	180.1359457	609.7627813	0
1599	1040.41	73.70175099	180.2170074	609.7780319	0
1600	1040.41	73.74231979	180.2980177	609.7932963	0
1601	1040.41	73.7828771	180.3789766	609.8085744	0
1602	1040.41	73.82342292	180.4598841	609.8238662	0
1603	1040.41	73.86395726	180.5407403	609.8391717	0
1604	1040.41	73.90448013	180.6215452	609.8544907	0
1605	1040.41	73.94499152	180.7022989	609.8698233	0
1606	1040.41	73.98549146	180.7830014	609.8851694	0
1607	1040.41	74.02597993	180.8636527	609.900529	0
1608	1040.41	74.06645695	180.9442529	609.915902	0
1609	1040.41	74.10692252	181.024802	609.9312884	0
1610	1040.41	74.14737664	181.1053001	609.9466882	0
1611	1040.41	74.18781933	181.1857472	609.9621014	0
1612	1040.41	74.22825059	181.2661433	609.9775278	0
1613	1040.41	74.26867041	181.3464886	609.9929674	0
1614	1040.41	74.30907882	181.4267829	610.0084202	0
1615	1040.41	74.3494758	181.5070265	610.0238862	0
1616	1040.41	74.38986138	181.5872192	610.0393654	0
1617	1040.41	74.43023554	181.6673612	610.0548576	0
1618	1040.41	74.47059831	181.7474525	610.0703628	0
1619	1040.41	74.51094968	181.8274931	610.0858811	0
1620	1040.41	74.55128965	181.9074832	610.1014123	0
1621	1040.41	74.59161825	181.9874226	610.1169565	0
1622	1040.41	74.63193546	182.0673115	610.1325135	0
1623	1040.41	74.67224129	182.1471499	610.1480834	0
1624	1040.41	74.71253576	182.2269378	610.1636661	0
1625	1040.41	74.75281886	182.3066754	610.1792616	0
1626	1040.41	74.7930906	182.3863625	610.1948698	0
1627	1040.41	74.83335099	182.4659994	610.2104907	0
1628	1040.41	74.87360003	182.5455859	610.2261243	0
1629	1040.41	74.91383772	182.6251222	610.2417704	0
1630	1040.41	74.95406408	182.7046083	610.2574292	0
1631	1040.41	74.9942791	182.7840442	610.2731005	0
1632	1040.41	75.0344828	182.86343	610.2887843	0
1633	1040.41	75.07467517	182.9427657	610.3044806	0
1634	1040.41	75.11485623	183.0220514	610.3201893	0
1635	1040.41	75.15502597	183.1012871	610.3359104	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1636	1040.41	75.19518441	183.1804728	610.3516438	0
1637	1040.41	75.23533155	183.2596086	610.3673896	0
1638	1040.41	75.27546739	183.3386946	610.3831476	0
1639	1040.41	75.31559194	183.4177307	610.3989179	0
1640	1040.41	75.35570521	183.496717	610.4147004	0
1641	1040.41	75.39580719	183.5756535	610.430495	0
1642	1040.41	75.43589791	183.6545404	610.4463018	0
1643	1040.41	75.47597735	183.7333776	610.4621207	0
1644	1040.41	75.51604553	183.8121652	610.4779516	0
1645	1040.41	75.55610246	183.8909032	610.4937945	0
1646	1040.41	75.59614813	183.9695916	610.5096494	0
1647	1040.41	75.63618255	184.0482305	610.5255163	0
1648	1040.41	75.67620573	184.12682	610.5413951	0
1649	1040.41	75.71621768	184.2053601	610.5572857	0
1650	1040.41	75.75621839	184.2838508	610.5731881	0
1651	1040.41	75.79620788	184.3622922	610.5891024	0
1652	1040.41	75.83618615	184.4406843	610.6050284	0
1653	1040.41	75.8761532	184.5190271	610.6209661	0
1654	1040.41	75.91610904	184.5973208	610.6369155	0
1655	1040.41	75.95605368	184.6755652	610.6528766	0
1656	1040.41	75.99598713	184.7537606	610.6688493	0
1657	1040.41	76.03590937	184.8319069	610.6848335	0
1658	1040.41	76.07582044	184.9100041	610.7008293	0
1659	1040.41	76.11572031	184.9880523	610.7168366	0
1660	1040.41	76.15560902	185.0660516	610.7328554	0
1661	1040.41	76.19548655	185.144002	610.7488856	0
1662	1040.41	76.23535291	185.2219035	610.7649271	0
1663	1040.41	76.27520812	185.2997562	610.7809801	0
1664	1040.41	76.31505217	185.3775601	610.7970444	0
1665	1040.41	76.35488507	185.4553152	610.8131199	0
1666	1040.41	76.39470683	185.5330217	610.8292067	0
1667	1040.41	76.43451745	185.6106794	610.8453048	0
1668	1040.41	76.47431693	185.6882886	610.861414	0
1669	1040.41	76.51410529	185.7658492	610.8775343	0
1670	1040.41	76.55388253	185.8433613	610.8936658	0
1671	1040.41	76.59364865	185.9208248	610.9098083	0
1672	1040.41	76.63340366	185.9982399	610.9259619	0
1673	1040.41	76.67314757	186.0756066	610.9421265	0
1674	1040.41	76.71288037	186.152925	610.958302	0
1675	1040.41	76.75260209	186.230195	610.9744885	0
1676	1040.41	76.79231271	186.3074167	610.9906859	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1677	1040.41	76.83201225	186.3845902	611.0068941	0
1678	1040.41	76.87170071	186.4617155	611.0231132	0
1679	1040.41	76.91137811	186.5387927	611.0393431	0
1680	1040.41	76.95104443	186.6158217	611.0555837	0
1681	1040.41	76.99069969	186.6928027	611.071835	0
1682	1040.41	77.0303439	186.7697356	611.0880971	0
1683	1040.41	77.06997706	186.8466206	611.1043698	0
1684	1040.41	77.10959918	186.9234576	611.1206531	0
1685	1040.41	77.14921026	187.0002467	611.136947	0
1686	1040.41	77.1888103	187.0769879	611.1532514	0
1687	1040.41	77.22839932	187.1536814	611.1695664	0
1688	1040.41	77.26797732	187.230327	611.1858919	0
1689	1040.41	77.3075443	187.3069249	611.2022278	0
1690	1040.41	77.34710027	187.3834752	611.2185741	0
1691	1040.41	77.38664524	187.4599778	611.2349308	0
1692	1040.41	77.4261792	187.5364327	611.2512978	0
1693	1040.41	77.46570218	187.6128401	611.2676752	0
1694	1040.41	77.50521416	187.6892	611.2840628	0
1695	1040.41	77.54471517	187.7655125	611.3004607	0
1696	1040.41	77.5842052	187.8417774	611.3168688	0
1697	1040.41	77.62368426	187.917995	611.333287	0
1698	1040.41	77.66315235	187.9941653	611.3497154	0
1699	1040.41	77.70260948	188.0702882	611.366154	0
1700	1040.41	77.74205566	188.1463638	611.3826025	0
1701	1040.41	77.7814909	188.2223923	611.3990612	0
1702	1040.41	77.82091519	188.2983735	611.4155298	0
1703	1040.41	77.86032854	188.3743076	611.4320084	0
1704	1040.41	77.89973097	188.4501947	611.448497	0
1705	1040.41	77.93912246	188.5260346	611.4649954	0
1706	1040.41	77.97850304	188.6018276	611.4815038	0
1707	1040.41	78.01787271	188.6775735	611.498022	0
1708	1040.41	78.05723147	188.7532726	611.51455	0
1709	1040.41	78.09657933	188.8289248	611.5310877	0
1710	1040.41	78.13591629	188.9045301	611.5476352	0
1711	1040.41	78.17524236	188.9800886	611.5641924	0
1712	1040.41	78.21455754	189.0556004	611.5807593	0
1713	1040.41	78.25386185	189.1310654	611.5973359	0
1714	1040.41	78.29315528	189.2064838	611.613922	0
1715	1040.41	78.33243785	189.2818556	611.6305177	0
1716	1040.41	78.37170956	189.3571807	611.647123	0
1717	1040.41	78.41097041	189.4324593	611.6637378	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1718	1040.41	78.45022041	189.5076915	611.680362	0
1719	1040.41	78.48945956	189.5828771	611.6969957	0
1720	1040.41	78.52868788	189.6580164	611.7136388	0
1721	1040.41	78.56790537	189.7331092	611.7302913	0
1722	1040.41	78.60711203	189.8081557	611.7469532	0
1723	1040.41	78.64630787	189.883156	611.7636243	0
1724	1040.41	78.68549289	189.95811	611.7803048	0
1725	1040.41	78.7246671	190.0330178	611.7969945	0
1726	1040.41	78.76383052	190.1078794	611.8136934	0
1727	1040.41	78.80298313	190.1826949	611.8304015	0
1728	1040.41	78.84212495	190.2574644	611.8471187	0
1729	1040.41	78.88125599	190.3321878	611.8638451	0
1730	1040.41	78.92037625	190.4068652	611.8805806	0
1731	1040.41	78.95948574	190.4814966	611.8973251	0
1732	1040.41	78.99858445	190.5560822	611.9140787	0
1733	1040.41	79.03767241	190.6306219	611.9308412	0
1734	1040.41	79.07674961	190.7051158	611.9476127	0
1735	1040.41	79.11581606	190.7795639	611.9643932	0
1736	1040.41	79.15487177	190.8539662	611.9811825	0
1737	1040.41	79.19391674	190.9283229	611.9979807	0
1738	1040.41	79.23295097	191.0026339	612.0147878	0
1739	1040.41	79.27197448	191.0768993	612.0316036	0
1740	1040.41	79.31098727	191.1511192	612.0484282	0
1741	1040.41	79.34998935	191.2252935	612.0652616	0
1742	1040.41	79.38898072	191.2994224	612.0821037	0
1743	1040.41	79.42796138	191.3735058	612.0989544	0
1744	1040.41	79.46693135	191.4475438	612.1158138	0
1745	1040.41	79.50589063	191.5215365	612.1326818	0
1746	1040.41	79.54483923	191.5954839	612.1495584	0
1747	1040.41	79.58377714	191.669386	612.1664436	0
1748	1040.41	79.62270439	191.7432428	612.1833372	0
1749	1040.41	79.66162097	191.8170545	612.2002394	0
1750	1040.41	79.70052689	191.8908211	612.21715	0
1751	1040.41	79.73942215	191.9645426	612.234069	0
1752	1040.41	79.77830677	192.038219	612.2509965	0
1753	1040.41	79.81718074	192.1118504	612.2679323	0
1754	1040.41	79.85604408	192.1854369	612.2848764	0
1755	1040.41	79.89489679	192.2589784	612.3018289	0
1756	1040.41	79.93373888	192.332475	612.3187896	0
1757	1040.41	79.97257035	192.4059268	612.3357585	0
1758	1040.41	80.01139121	192.4793338	612.3527357	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1759	1040.41	80.05020146	192.5526961	612.369721	0
1760	1040.41	80.08900111	192.6260137	612.3867145	0
1761	1040.41	80.12779017	192.6992866	612.4037161	0
1762	1040.41	80.16656864	192.7725148	612.4207258	0
1763	1040.41	80.20533653	192.8456985	612.4377436	0
1764	1040.41	80.24409385	192.9188377	612.4547694	0
1765	1040.41	80.2828406	192.9919323	612.4718031	0
1766	1040.41	80.32157679	193.0649825	612.4888449	0
1767	1040.41	80.36030242	193.1379883	612.5058945	0
1768	1040.41	80.3990175	193.2109498	612.5229521	0
1769	1040.41	80.43772203	193.2838669	612.5400176	0
1770	1040.41	80.47641603	193.3567397	612.5570909	0
1771	1040.41	80.5150995	193.4295683	612.574172	0
1772	1040.41	80.55377244	193.5023527	612.5912609	0
1773	1040.41	80.59243486	193.5750929	612.6083575	0
1774	1040.41	80.63108677	193.6477891	612.6254619	0
1775	1040.41	80.66972818	193.7204412	612.6425739	0
1776	1040.41	80.70835908	193.7930492	612.6596936	0
1777	1040.41	80.74697949	193.8656133	612.676821	0
1778	1040.41	80.78558941	193.9381334	612.693956	0
1779	1040.41	80.82418885	194.0106097	612.7110985	0
1780	1040.41	80.86277781	194.0830421	612.7282485	0
1781	1040.41	80.90135631	194.1554307	612.7454061	0
1782	1040.41	80.93992434	194.2277755	612.7625712	0
1783	1040.41	80.97848192	194.3000766	612.7797437	0
1784	1040.41	81.01702904	194.372334	612.7969236	0
1785	1040.41	81.05556572	194.4445478	612.814111	0
1786	1040.41	81.09409197	194.516718	612.8313056	0
1787	1040.41	81.13260778	194.5888447	612.8485077	0
1788	1040.41	81.17111317	194.6609278	612.865717	0
1789	1040.41	81.20960814	194.7329675	612.8829336	0
1790	1040.41	81.2480927	194.8049638	612.9001574	0
1791	1040.41	81.28656685	194.8769166	612.9173885	0
1792	1040.41	81.3250306	194.9488262	612.9346267	0
1793	1040.41	81.36348396	195.0206924	612.9518721	0
1794	1040.41	81.40192693	195.0925154	612.9691246	0
1795	1040.41	81.44035952	195.1642952	612.9863843	0
1796	1040.41	81.47878174	195.2360319	613.0036509	0
1797	1040.41	81.51719359	195.3077254	613.0209247	0
1798	1040.41	81.55559508	195.3793758	613.0382054	0
1799	1040.41	81.59398621	195.4509832	613.0554931	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1800	1040.41	81.63236699	195.5225477	613.0727877	0
1801	1040.41	81.67073744	195.5940691	613.0900893	0
1802	1040.41	81.70909755	195.6655477	613.1073978	0
1803	1040.41	81.74744732	195.7369834	613.1247131	0
1804	1040.41	81.78578678	195.8083763	613.1420353	0
1805	1040.41	81.82411592	195.8797264	613.1593642	0
1806	1040.41	81.86243475	195.9510337	613.1767	0
1807	1040.41	81.90074328	196.0222984	613.1940425	0
1808	1040.41	81.93904151	196.0935204	613.2113917	0
1809	1040.41	81.97732945	196.1646999	613.2287475	0
1810	1040.41	82.0156071	196.2358367	613.2461101	0
1811	1040.41	82.05346114	196.3056133	611.3808618	0
1812	1040.41	82.09065154	196.3732647	607.5918327	0
1813	1040.41	82.12721743	196.4389162	615.8837762	0
1814	1040.41	82.16304047	196.5021912	630.2892694	0
1815	1040.41	82.1980721	196.5629354	646.4271318	0
1816	1040.41	82.23231312	196.6211523	662.8796745	0
1817	1040.41	82.26577953	196.6768934	679.1626565	0
1818	1040.41	82.29861345	196.7306128	695.6661438	0
1819	1040.41	82.33120354	196.7835506	713.7793259	0
1820	1040.41	82.36353304	196.8356536	732.2720987	0
1821	1040.41	82.39559848	196.8869109	742.7561608	0
1822	1040.41	82.42748675	196.9376	749.0516625	0
1823	1040.41	82.45924335	196.9878661	753.1516647	0
1824	1040.41	82.49089219	197.0377857	756.0976133	0
1825	1040.41	82.52244594	197.0873993	758.4346349	0
1826	1040.41	82.55391136	197.1367285	760.448579	0
1827	1040.41	82.58529213	197.1857852	762.2896134	0
1828	1040.41	82.61658985	197.234576	764.0367762	0
1829	1040.41	82.64780537	197.2831048	765.7317491	0
1830	1040.41	82.67893944	197.3313741	767.3965589	0
1831	1040.41	82.70999255	197.3793855	769.042873	0
1832	1040.41	82.7409651	197.4271405	770.6768882	0
1833	1040.41	82.77185739	197.4746401	772.301908	0
1834	1040.41	82.80266972	197.5218852	773.9197023	0
1835	1040.41	82.83340233	197.5688768	775.5312271	0
1836	1040.41	82.86405548	197.6156158	777.1370054	0
1837	1040.41	82.8946294	197.662103	778.7373296	0
1838	1040.41	82.92512433	197.7083392	780.3323689	0
1839	1040.41	82.95554051	197.7543253	781.9222265	0
1840	1040.41	82.98587817	197.800062	783.5069704	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1841	1040.41	83.01613754	197.8455503	785.0866493	0
1842	1040.41	83.04631884	197.890791	786.6613017	0
1843	1040.41	83.07642232	197.9357847	788.2309606	0
1844	1040.41	83.10644818	197.9805324	789.7956555	0
1845	1040.41	83.13639667	198.0250349	791.3554146	0
1846	1040.41	83.16626799	198.0692929	792.9102646	0
1847	1040.41	83.19606239	198.1133072	794.4602319	0
1848	1040.41	83.22578007	198.1570787	796.0053423	0
1849	1040.41	83.25542126	198.2006081	797.5456212	0
1850	1040.41	83.28498618	198.2438961	799.0810939	0
1851	1040.41	83.31447504	198.2869437	800.6117854	0
1852	1040.41	83.34388807	198.3297515	802.1377205	0
1853	1040.41	83.37322549	198.3723203	803.6589239	0
1854	1040.41	83.4024875	198.4146509	805.17542	0
1855	1040.41	83.43167432	198.4567441	806.687233	0
1856	1040.41	83.46078616	198.4986005	808.1943871	0
1857	1040.41	83.48982325	198.5402211	809.6969062	0
1858	1040.41	83.51878578	198.5816065	811.194814	0
1859	1040.41	83.54767397	198.6227574	812.688134	0
1860	1040.41	83.57648803	198.6636747	814.1768898	0
1861	1040.41	83.60522816	198.704359	815.6611045	0
1862	1040.41	83.63389458	198.7448111	817.1408013	0
1863	1040.41	83.66248749	198.7850318	818.616003	0
1864	1040.41	83.69100709	198.8250217	820.0867324	0
1865	1040.41	83.71945359	198.8647817	821.5530122	0
1866	1040.41	83.74782719	198.9043123	823.0148647	0
1867	1040.41	83.7761281	198.9436145	824.4723122	0
1868	1040.41	83.80435651	198.9826888	825.925377	0
1869	1040.41	83.83251263	199.0215359	827.3740808	0
1870	1040.41	83.86059665	199.0601567	828.8184457	0
1871	1040.41	83.88860878	199.0985518	830.2584931	0
1872	1040.41	83.91658424	199.1368339	831.8619906	0
1873	1040.41	83.94452172	199.1749988	833.5582029	0
1874	1040.41	83.97242028	199.2130436	835.0756356	0
1875	1040.41	84.0002818	199.2509743	836.1054431	0
1876	1040.41	84.02811141	199.2888074	836.8572986	0
1877	1040.41	84.05591204	199.3265522	837.4506858	0
1878	1040.41	84.08368536	199.3642142	837.9536797	0
1879	1040.41	84.11143234	199.4017965	838.4050576	0
1880	1040.41	84.13915353	199.4393009	838.8269035	0
1881	1040.41	84.16684926	199.4767285	839.2317923	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1882	1040.41	84.19451974	199.5140799	839.6268825	0
1883	1040.41	84.22216506	199.5513555	840.0162488	0
1884	1040.41	84.24978532	199.5885557	840.4022101	0
1885	1040.41	84.27738057	199.6256805	840.7860859	0
1886	1040.41	84.30495084	199.6627303	841.1686268	0
1887	1040.41	84.33249617	199.699705	841.55026	0
1888	1040.41	84.36001658	199.7366049	841.9312287	0
1889	1040.41	84.3875121	199.77343	842.3116714	0
1890	1040.41	84.41498274	199.8101804	842.6916668	0
1891	1040.41	84.44242854	199.8468563	843.0712601	0
1892	1040.41	84.46984952	199.8834577	843.4504771	0
1893	1040.41	84.49724568	199.9199847	843.8293327	0
1894	1040.41	84.52461707	199.9564375	844.2078356	0
1895	1040.41	84.55196369	199.9928161	844.585991	0
1896	1040.41	84.57928556	200.0291206	844.963802	0
1897	1040.41	84.60658271	200.0653511	845.3412706	0
1898	1040.41	84.63385517	200.1015078	845.7183982	0
1899	1040.41	84.66110294	200.1375907	846.0951859	0
1900	1040.41	84.68832605	200.1735999	846.4716343	0
1901	1040.41	84.71552452	200.2095355	846.8477443	0
1902	1040.41	84.74269837	200.2453976	847.2235164	0
1903	1040.41	84.76984762	200.2811863	847.5989512	0
1904	1040.41	84.7969723	200.3169017	847.9740492	0
1905	1040.41	84.82407242	200.3525439	848.3488109	0
1906	1040.41	84.851148	200.3881129	848.7232369	0
1907	1040.41	84.87819907	200.423609	849.0973278	0
1908	1040.41	84.90522564	200.4590321	849.471084	0
1909	1040.41	84.93222773	200.4943825	849.844506	0
1910	1040.41	84.95920537	200.52966	850.2175944	0
1911	1040.41	84.98615858	200.564865	850.5903497	0
1912	1040.41	85.01308738	200.5999974	850.9627724	0
1913	1040.41	85.03999178	200.6350574	851.334863	0
1914	1040.41	85.06687181	200.670045	851.7066219	0
1915	1040.41	85.09372748	200.7049604	852.0780498	0
1916	1040.41	85.12055883	200.7398036	852.4491472	0
1917	1040.41	85.14736586	200.7745747	852.8199144	0
1918	1040.41	85.17414861	200.8092739	853.1903521	0
1919	1040.41	85.20090708	200.8439012	853.5604607	0
1920	1040.41	85.2276413	200.8784567	853.9302408	0
1921	1040.41	85.2543513	200.9129406	854.2996927	0
1922	1040.41	85.28103708	200.9473528	854.6688172	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1923	1040.41	85.30769868	200.9816935	855.0376146	0
1924	1040.41	85.3343361	201.0159629	855.4060854	0
1925	1040.41	85.36094938	201.0501609	855.7742301	0
1926	1040.41	85.38753853	201.0842877	856.1420493	0
1927	1040.41	85.41407583	201.1182545	856.3710875	0
1928	1040.41	85.44054779	201.1520181	856.4469784	0
1929	1040.41	85.46695619	201.1855844	856.4757576	0
1930	1040.41	85.49330167	201.2189553	857.1960455	0
1931	1040.41	85.51957717	201.2521084	858.3003862	0
1932	1040.41	85.54577888	201.2850315	859.6173054	0
1933	1040.41	85.57190475	201.3177182	861.0510323	0
1934	1040.41	85.59795376	201.3501652	862.5480045	0
1935	1040.41	85.62392544	201.3823711	864.0782285	0
1936	1040.41	85.64981962	201.4143355	865.6248899	0
1937	1040.41	85.67563633	201.4460584	867.178555	0
1938	1040.41	85.70137567	201.4775404	868.7339287	0
1939	1040.41	85.72703781	201.5087821	870.2880405	0
1940	1040.41	85.75262296	201.5397841	871.8392266	0
1941	1040.41	85.77813132	201.5705473	873.3865594	0
1942	1040.41	85.80356311	201.6010723	874.929526	0
1943	1040.41	85.82891857	201.6313601	876.467848	0
1944	1040.41	85.85419792	201.6614114	878.0013792	0
1945	1040.41	85.87940139	201.6912271	879.5300481	0
1946	1040.41	85.90452922	201.7208079	881.053826	0
1947	1040.41	85.92958162	201.7501546	882.5727076	0
1948	1040.41	85.95455883	201.7792682	884.0867016	0
1949	1040.41	85.97946107	201.8081493	885.5958241	0
1950	1040.41	86.00428858	201.8367988	887.1000954	0
1951	1040.41	86.02904156	201.8652175	888.5995382	0
1952	1040.41	86.05372026	201.8934061	890.0941767	0
1953	1040.41	86.07832488	201.9213655	891.5840353	0
1954	1040.41	86.10285566	201.9490964	893.0691391	0
1955	1040.41	86.12731281	201.9765996	894.5495129	0
1956	1040.41	86.15169654	202.003876	896.0251818	0
1957	1040.41	86.17600709	202.0309261	897.4961706	0
1958	1040.41	86.20024466	202.057751	898.962504	0
1959	1040.41	86.22440947	202.0843512	900.4242068	0
1960	1040.41	86.24850174	202.1107276	901.8813031	0
1961	1040.41	86.27252167	202.1368809	903.3338174	0
1962	1040.41	86.29646949	202.1628118	904.7817737	0
1963	1040.41	86.3203454	202.1885212	906.2251959	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1964	1040.41	86.34414961	202.2140098	907.6641077	0
1965	1040.41	86.36788233	202.2392782	909.0985328	0
1966	1040.41	86.39154377	202.2643274	910.5284944	0
1967	1040.41	86.41513415	202.2891579	911.9540159	0
1968	1040.41	86.43865365	202.3137705	913.3751202	0
1969	1040.41	86.4621025	202.338166	914.7918304	0
1970	1040.41	86.48548089	202.3623451	916.204169	0
1971	1040.41	86.50878902	202.3863085	917.6121587	0
1972	1040.41	86.5320271	202.4100569	919.0158219	0
1973	1040.41	86.55519534	202.433591	920.4151809	0
1974	1040.41	86.57829392	202.4569116	921.8102576	0
1975	1040.41	86.60132306	202.4800193	923.2010741	0
1976	1040.41	86.62428294	202.5029149	924.5876521	0
1977	1040.41	86.64717376	202.5255991	925.9700132	0
1978	1040.41	86.66999573	202.5480725	927.348179	0
1979	1040.41	86.69274904	202.5703359	928.7221707	0
1980	1040.41	86.71543387	202.5923899	930.0920094	0
1981	1040.41	86.73805044	202.6142353	931.4577163	0
1982	1040.41	86.76059892	202.6358727	932.8193121	0
1983	1040.41	86.78307951	202.6573029	934.1768176	0
1984	1040.41	86.80549814	202.6785448	935.5600599	0
1985	1040.41	86.82789129	202.6997158	937.147253	0
1986	1040.41	86.85025691	202.7208093	938.8550736	0
1987	1040.41	86.87259379	202.7418215	940.447689	0
1988	1040.41	86.89490312	202.7627561	941.4596891	0
1989	1040.41	86.91719076	202.783632	942.1223863	0
1990	1040.41	86.93946023	202.8044606	942.5750162	0
1991	1040.41	86.96171367	202.8252487	942.9013564	0
1992	1040.41	86.98395236	202.8460005	943.1517949	0
1993	1040.41	87.00617707	202.8667185	943.3566257	0
1994	1040.41	87.02838827	202.8874042	943.5340543	0
1995	1040.41	87.05058625	202.9080586	943.6950173	0
1996	1040.41	87.07277118	202.9286821	943.8460817	0
1997	1040.41	87.09494316	202.9492752	943.9911895	0
1998	1040.41	87.11710228	202.9698381	944.1327057	0
1999	1040.41	87.13924856	202.9903709	944.2720487	0
2000	1040.41	87.16138205	203.0108738	944.4100689	0
2001	1040.41	87.18350275	203.0313468	944.5472759	0
2002	1040.41	87.2056107	203.0517901	944.683975	0
2003	1040.41	87.2277059	203.0722036	944.820349	0
2004	1040.41	87.24978836	203.0925874	944.9565073	0

Attachment 1

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
2005	1040.41	87.27185809	203.1129416	945.0925153	0
2006	1040.41	87.29391511	203.1332662	945.2284123	0
2007	1040.41	87.31595942	203.1535612	945.3642216	0
2008	1040.41	87.33799103	203.1738267	945.4999572	0
2009	1040.41	87.36000995	203.1940628	945.6356276	0
2010	1040.41	87.38201619	203.2142694	945.7712377	0
2011	1040.41	87.40400976	203.2344466	945.9067906	0
2012	1040.41	87.42599067	203.2545945	946.042288	0
2013	1040.41	87.44795892	203.2747131	946.177731	0
2014	1040.41	87.46991452	203.2948024	946.3131204	0
2015	1040.41	87.49185749	203.3148624	946.4484563	0
2016	1040.41	87.51378782	203.3348933	946.5837393	0
2017	1040.41	87.53570554	203.3548951	946.7189693	0
2018	1040.41	87.55761065	203.3748677	946.8541465	0
2019	1040.41	87.57950315	203.3948112	946.989271	0
2020	1040.41	87.60138306	203.4147258	947.1243428	0
2021	1040.41	87.62325038	203.4346113	947.2593619	0
2022	1040.41	87.64510513	203.4544679	947.3943284	0
2023	1040.41	87.66694731	203.4742956	947.5292424	0

	L	M	N	O	P	Q
1			UO2 constants (Table 2-1 NUREG/CR-6150)			Stainless S (Equation 6-
2	Cp (BTU/lb-F)		Ratio (Y)	2		
3	0.067116		Gas Const (R)	8.3143 j/mol*K		For 300 ≤ T < 1,
4	0.072131		Einstein Temp (theta)	535.285 K		C _{ps} = 326 - 0.242 T +
5	0.0791		K1	296.7 J/kg*K		
6	0.0896		K2	2.430E-02 J/kg*K^2		
7	0.1199		K3	8.745E+07 J/Kg		
8	0.1409		Ed	1.577E+05 j/mol*K		Zirc O (Equation 3.2
9	0.1469					
10	0.1717					
11				k = 7.51 + 2.09 x 10 ⁻² T - 1.45 x 10		
12	0.1949					
13	0.1839		UO2 specific Heat (J/kg*K)			
14	0.1478					
15	0.1120		$FCP = \frac{K_1 \theta^2 e^{\left(\frac{\theta}{T}\right)}}{T^2 \left[e^{\left(\frac{\theta}{T}\right)} - 1 \right]^2} + K_2 T + \frac{Y K_3 E_D}{2RT^2} e^{\left(\frac{-E_D}{RT}\right)}$			
16	0.0850					
17						
18						
19	x=\$B\$2-J24- I24-H24	x=B24*H24/ (V24*W24)	x=I24*B24/ Y24*Z24)	x=(J24-K24)* B24/(AB24*A C24)	x=K24*B24/ (AD24*AE24)	x=B24*L24/ (R24*S24+T24*U24)
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
23	7.48E+03	0.00	0.00	0.00	0.00	1.12
24	7.46E+03	0.00	0.00	0.02	0.00	1.11
25	7.45E+03	0.00	0.00	0.04	0.00	1.11
26	7.44E+03	0.00	0.00	0.06	0.00	1.11
27	7.42E+03	0.00	0.00	0.08	0.00	1.10
28	7.41E+03	0.00	0.01	0.10	0.00	1.10
29	7.40E+03	0.00	0.01	0.12	0.00	1.10
30	7.39E+03	0.00	0.01	0.13	0.00	1.10
31	7.37E+03	0.01	0.01	0.15	0.01	1.09
32	7.36E+03	0.01	0.01	0.17	0.01	1.09
33	7.35E+03	0.01	0.01	0.18	0.01	1.09
34	7.34E+03	0.01	0.01	0.20	0.01	1.09
35	7.33E+03	0.01	0.01	0.21	0.01	1.08
36	7.32E+03	0.01	0.01	0.23	0.02	1.08

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
37	7.30E+03	0.01	0.01	0.24	0.02	1.08
38	7.29E+03	0.01	0.02	0.25	0.02	1.08
39	7.28E+03	0.01	0.02	0.27	0.02	1.07
40	7.27E+03	0.01	0.02	0.28	0.03	1.07
41	7.26E+03	0.01	0.02	0.29	0.03	1.07
42	7.25E+03	0.01	0.02	0.30	0.03	1.07
43	7.24E+03	0.01	0.02	0.32	0.04	1.06
44	7.23E+03	0.01	0.02	0.33	0.04	1.06
45	7.22E+03	0.01	0.02	0.34	0.04	1.06
46	7.21E+03	0.01	0.02	0.35	0.05	1.06
47	7.20E+03	0.02	0.02	0.36	0.05	1.06
48	7.19E+03	0.02	0.03	0.37	0.05	1.05
49	7.18E+03	0.02	0.03	0.38	0.06	1.05
50	7.17E+03	0.02	0.03	0.39	0.06	1.05
51	7.16E+03	0.02	0.03	0.40	0.06	1.05
52	7.15E+03	0.02	0.03	0.40	0.07	1.04
53	7.14E+03	0.02	0.03	0.41	0.07	1.04
54	7.13E+03	0.02	0.03	0.42	0.08	1.04
55	7.12E+03	0.02	0.03	0.43	0.08	1.04
56	7.11E+03	0.02	0.03	0.44	0.08	1.04
57	7.10E+03	0.02	0.03	0.45	0.09	1.03
58	7.09E+03	0.02	0.04	0.45	0.09	1.03
59	7.08E+03	0.02	0.04	0.46	0.10	1.03
60	7.07E+03	0.02	0.04	0.47	0.10	1.03
61	7.06E+03	0.02	0.04	0.47	0.10	1.03
62	7.05E+03	0.02	0.04	0.48	0.11	1.02
63	7.04E+03	0.03	0.04	0.49	0.11	1.02
64	7.03E+03	0.03	0.04	0.49	0.12	1.02
65	7.02E+03	0.03	0.04	0.50	0.12	1.02
66	7.02E+03	0.03	0.04	0.51	0.13	1.02
67	7.01E+03	0.03	0.04	0.51	0.13	1.01
68	7.00E+03	0.03	0.04	0.52	0.14	1.01
69	6.99E+03	0.03	0.05	0.52	0.14	1.01
70	6.98E+03	0.03	0.05	0.53	0.15	1.01
71	6.97E+03	0.03	0.05	0.54	0.15	1.01
72	6.96E+03	0.03	0.05	0.54	0.16	1.00
73	6.95E+03	0.03	0.05	0.55	0.16	1.00
74	6.95E+03	0.03	0.05	0.55	0.17	1.00
75	6.94E+03	0.03	0.05	0.56	0.17	1.00
76	6.93E+03	0.03	0.05	0.56	0.17	1.00
77	6.92E+03	0.03	0.05	0.57	0.18	1.00

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
78	6.91E+03	0.03	0.05	0.57	0.18	0.99
79	6.90E+03	0.03	0.05	0.58	0.19	0.99
80	6.89E+03	0.03	0.06	0.58	0.19	0.99
81	6.89E+03	0.04	0.06	0.58	0.20	0.99
82	6.88E+03	0.04	0.06	0.59	0.20	0.99
83	6.87E+03	0.04	0.06	0.59	0.21	0.99
84	6.86E+03	0.04	0.06	0.60	0.21	0.98
85	6.85E+03	0.04	0.06	0.60	0.22	0.98
86	6.84E+03	0.04	0.06	0.61	0.22	0.98
87	6.84E+03	0.04	0.06	0.61	0.23	0.98
88	6.83E+03	0.04	0.06	0.61	0.24	0.98
89	6.82E+03	0.04	0.06	0.62	0.24	0.97
90	6.81E+03	0.04	0.06	0.62	0.25	0.97
91	6.80E+03	0.04	0.07	0.62	0.25	0.97
92	6.80E+03	0.04	0.07	0.63	0.26	0.97
93	6.79E+03	0.04	0.07	0.63	0.26	0.97
94	6.78E+03	0.04	0.07	0.63	0.27	0.97
95	6.77E+03	0.04	0.07	0.64	0.27	0.97
96	6.76E+03	0.04	0.07	0.64	0.28	0.96
97	6.76E+03	0.04	0.07	0.64	0.28	0.96
98	6.75E+03	0.04	0.07	0.65	0.29	0.96
99	6.74E+03	0.05	0.07	0.65	0.29	0.96
100	6.73E+03	0.05	0.07	0.65	0.30	0.96
101	6.73E+03	0.05	0.07	0.66	0.30	0.96
102	6.72E+03	0.05	0.07	0.66	0.31	0.95
103	6.71E+03	0.05	0.08	0.66	0.31	0.95
104	6.70E+03	0.05	0.08	0.67	0.32	0.95
105	6.69E+03	0.05	0.08	0.67	0.32	0.95
106	6.69E+03	0.05	0.08	0.67	0.33	0.95
107	6.68E+03	0.05	0.08	0.67	0.33	0.95
108	6.67E+03	0.05	0.08	0.68	0.34	0.94
109	6.66E+03	0.05	0.08	0.68	0.34	0.94
110	6.66E+03	0.05	0.08	0.68	0.35	0.94
111	6.65E+03	0.05	0.08	0.69	0.35	0.94
112	6.64E+03	0.05	0.08	0.69	0.36	0.94
113	6.63E+03	0.05	0.08	0.69	0.36	0.94
114	6.63E+03	0.05	0.08	0.69	0.37	0.94
115	6.62E+03	0.05	0.09	0.70	0.37	0.93
116	6.61E+03	0.05	0.09	0.70	0.38	0.93
117	6.61E+03	0.06	0.09	0.70	0.38	0.93
118	6.60E+03	0.06	0.09	0.70	0.39	0.93

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
119	6.59E+03	0.06	0.09	0.71	0.40	0.93
120	6.58E+03	0.06	0.09	0.71	0.40	0.93
121	6.58E+03	0.06	0.09	0.71	0.41	0.93
122	6.57E+03	0.06	0.09	0.71	0.41	0.92
123	6.56E+03	0.06	0.09	0.71	0.42	0.92
124	6.56E+03	0.06	0.09	0.72	0.42	0.92
125	6.55E+03	0.06	0.09	0.72	0.43	0.92
126	6.54E+03	0.06	0.09	0.72	0.43	0.92
127	6.53E+03	0.06	0.09	0.72	0.44	0.92
128	6.53E+03	0.06	0.10	0.73	0.44	0.92
129	6.52E+03	0.06	0.10	0.73	0.45	0.91
130	6.51E+03	0.06	0.10	0.73	0.45	0.91
131	6.51E+03	0.06	0.10	0.73	0.46	0.91
132	6.50E+03	0.06	0.10	0.73	0.46	0.91
133	6.49E+03	0.06	0.10	0.73	0.47	0.91
134	6.49E+03	0.06	0.10	0.74	0.47	0.91
135	6.48E+03	0.06	0.10	0.74	0.48	0.91
136	6.47E+03	0.06	0.10	0.74	0.48	0.90
137	6.46E+03	0.07	0.10	0.74	0.49	0.90
138	6.46E+03	0.07	0.10	0.74	0.49	0.90
139	6.45E+03	0.07	0.10	0.75	0.50	0.90
140	6.44E+03	0.07	0.11	0.75	0.50	0.90
141	6.44E+03	0.07	0.11	0.75	0.51	0.90
142	6.43E+03	0.07	0.11	0.75	0.51	0.90
143	6.42E+03	0.07	0.11	0.75	0.52	0.90
144	6.42E+03	0.07	0.11	0.75	0.52	0.89
145	6.41E+03	0.07	0.11	0.76	0.53	0.89
146	6.40E+03	0.07	0.11	0.76	0.53	0.89
147	6.40E+03	0.07	0.11	0.76	0.54	0.89
148	6.39E+03	0.07	0.11	0.76	0.54	0.89
149	6.39E+03	0.07	0.11	0.76	0.55	0.89
150	6.38E+03	0.07	0.11	0.76	0.55	0.89
151	6.37E+03	0.07	0.11	0.77	0.56	0.89
152	6.37E+03	0.07	0.11	0.77	0.56	0.88
153	6.36E+03	0.07	0.11	0.77	0.56	0.88
154	6.35E+03	0.07	0.12	0.77	0.57	0.88
155	6.35E+03	0.07	0.12	0.77	0.57	0.88
156	6.34E+03	0.07	0.12	0.77	0.58	0.88
157	6.33E+03	0.08	0.12	0.78	0.58	0.88
158	6.33E+03	0.08	0.12	0.78	0.59	0.88
159	6.32E+03	0.08	0.12	0.78	0.59	0.88

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
160	6.32E+03	0.08	0.12	0.78	0.60	0.87
161	6.31E+03	0.08	0.12	0.78	0.60	0.87
162	6.30E+03	0.08	0.12	0.78	0.61	0.87
163	6.30E+03	0.08	0.12	0.78	0.61	0.87
164	6.29E+03	0.08	0.12	0.78	0.62	0.87
165	6.29E+03	0.08	0.12	0.79	0.62	0.87
166	6.28E+03	0.08	0.12	0.79	0.63	0.87
167	6.27E+03	0.08	0.12	0.79	0.63	0.87
168	6.27E+03	0.08	0.13	0.79	0.63	0.87
169	6.26E+03	0.08	0.13	0.79	0.64	0.86
170	6.26E+03	0.08	0.13	0.79	0.64	0.86
171	6.25E+03	0.08	0.13	0.79	0.65	0.86
172	6.24E+03	0.08	0.13	0.80	0.65	0.86
173	6.24E+03	0.08	0.13	0.80	0.66	0.86
174	6.23E+03	0.08	0.13	0.80	0.66	0.86
175	6.23E+03	0.08	0.13	0.80	0.67	0.86
176	6.22E+03	0.08	0.13	0.80	0.67	0.86
177	6.21E+03	0.08	0.13	0.80	0.67	0.86
178	6.21E+03	0.08	0.13	0.80	0.68	0.85
179	6.20E+03	0.09	0.13	0.80	0.68	0.85
180	6.20E+03	0.09	0.13	0.81	0.69	0.85
181	6.19E+03	0.09	0.13	0.81	0.69	0.85
182	6.19E+03	0.09	0.14	0.81	0.70	0.85
183	6.18E+03	0.09	0.14	0.81	0.70	0.85
184	6.18E+03	0.09	0.14	0.81	0.70	0.85
185	6.17E+03	0.09	0.14	0.81	0.71	0.85
186	6.16E+03	0.09	0.14	0.81	0.71	0.85
187	6.16E+03	0.09	0.14	0.81	0.72	0.84
188	6.15E+03	0.09	0.14	0.81	0.72	0.84
189	6.15E+03	0.09	0.14	0.82	0.72	0.84
190	6.14E+03	0.09	0.14	0.82	0.73	0.84
191	6.14E+03	0.09	0.14	0.82	0.73	0.84
192	6.13E+03	0.09	0.14	0.82	0.74	0.84
193	6.13E+03	0.09	0.14	0.82	0.74	0.84
194	6.12E+03	0.09	0.14	0.82	0.74	0.84
195	6.12E+03	0.09	0.14	0.82	0.75	0.84
196	6.11E+03	0.09	0.14	0.82	0.75	0.84
197	6.11E+03	0.09	0.15	0.82	0.76	0.84
198	6.10E+03	0.09	0.15	0.82	0.76	0.83
199	6.10E+03	0.09	0.15	0.83	0.76	0.83
200	6.09E+03	0.09	0.15	0.83	0.77	0.83

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
201	6.09E+03	0.10	0.15	0.83	0.77	0.83
202	6.08E+03	0.10	0.15	0.83	0.77	0.83
203	6.08E+03	0.10	0.15	0.83	0.78	0.83
204	6.07E+03	0.10	0.15	0.83	0.78	0.83
205	6.07E+03	0.10	0.15	0.83	0.79	0.83
206	6.06E+03	0.10	0.15	0.83	0.79	0.83
207	6.06E+03	0.10	0.15	0.83	0.79	0.83
208	6.05E+03	0.10	0.15	0.83	0.80	0.82
209	6.05E+03	0.10	0.15	0.84	0.80	0.82
210	6.04E+03	0.10	0.15	0.84	0.80	0.82
211	6.04E+03	0.10	0.15	0.84	0.81	0.82
212	6.03E+03	0.10	0.16	0.84	0.81	0.82
213	6.03E+03	0.10	0.16	0.84	0.81	0.82
214	6.03E+03	0.10	0.16	0.84	0.82	0.82
215	6.02E+03	0.10	0.16	0.84	0.82	0.82
216	6.02E+03	0.10	0.16	0.84	0.82	0.82
217	6.01E+03	0.10	0.16	0.84	0.83	0.82
218	6.01E+03	0.10	0.16	0.84	0.83	0.82
219	6.00E+03	0.10	0.16	0.84	0.83	0.82
220	6.00E+03	0.10	0.16	0.84	0.84	0.81
221	5.99E+03	0.10	0.16	0.85	0.84	0.81
222	5.99E+03	0.10	0.16	0.85	0.84	0.81
223	5.99E+03	0.10	0.16	0.85	0.85	0.81
224	5.98E+03	0.11	0.16	0.85	0.85	0.81
225	5.98E+03	0.11	0.16	0.85	0.85	0.81
226	5.97E+03	0.11	0.16	0.85	0.86	0.81
227	5.97E+03	0.11	0.16	0.85	0.86	0.81
228	5.97E+03	0.11	0.17	0.85	0.86	0.81
229	5.96E+03	0.11	0.17	0.85	0.87	0.81
230	5.96E+03	0.11	0.17	0.85	0.87	0.81
231	5.95E+03	0.11	0.17	0.85	0.87	0.81
232	5.95E+03	0.11	0.17	0.85	0.87	0.81
233	5.95E+03	0.11	0.17	0.86	0.88	0.80
234	5.94E+03	0.11	0.17	0.86	0.88	0.80
235	5.94E+03	0.11	0.17	0.86	0.88	0.80
236	5.93E+03	0.11	0.17	0.86	0.89	0.80
237	5.93E+03	0.11	0.17	0.86	0.89	0.80
238	5.93E+03	0.11	0.17	0.86	0.89	0.80
239	5.92E+03	0.11	0.17	0.86	0.89	0.80
240	5.92E+03	0.11	0.17	0.86	0.90	0.80
241	5.92E+03	0.11	0.17	0.86	0.90	0.80

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
242	5.91E+03	0.11	0.17	0.86	0.90	0.80
243	5.91E+03	0.11	0.17	0.86	0.90	0.80
244	5.90E+03	0.11	0.18	0.86	0.91	0.80
245	5.90E+03	0.11	0.18	0.86	0.91	0.80
246	5.90E+03	0.11	0.18	0.86	0.91	0.80
247	5.89E+03	0.11	0.18	0.87	0.91	0.79
248	5.89E+03	0.12	0.18	0.87	0.92	0.79
249	5.89E+03	0.12	0.18	0.87	0.92	0.79
250	5.88E+03	0.12	0.18	0.87	0.92	0.79
251	5.88E+03	0.12	0.18	0.87	0.92	0.79
252	5.88E+03	0.12	0.18	0.87	0.93	0.79
253	5.87E+03	0.12	0.18	0.87	0.93	0.79
254	5.87E+03	0.12	0.18	0.87	0.93	0.79
255	5.87E+03	0.12	0.18	0.87	0.93	0.79
256	5.87E+03	0.12	0.18	0.87	0.94	0.79
257	5.86E+03	0.12	0.18	0.87	0.94	0.79
258	5.86E+03	0.12	0.18	0.87	0.94	0.79
259	5.86E+03	0.12	0.18	0.87	0.94	0.79
260	5.85E+03	0.12	0.18	0.87	0.94	0.79
261	5.85E+03	0.12	0.19	0.87	0.95	0.79
262	5.85E+03	0.12	0.19	0.87	0.95	0.79
263	5.85E+03	0.12	0.19	0.88	0.95	0.78
264	5.84E+03	0.12	0.19	0.88	0.95	0.78
265	5.84E+03	0.12	0.19	0.88	0.95	0.78
266	5.84E+03	0.12	0.19	0.88	0.96	0.78
267	5.83E+03	0.12	0.19	0.88	0.96	0.78
268	5.83E+03	0.12	0.19	0.88	0.96	0.78
269	5.83E+03	0.12	0.19	0.88	0.96	0.78
270	5.83E+03	0.12	0.19	0.88	0.96	0.78
271	5.82E+03	0.12	0.19	0.88	0.97	0.78
272	5.82E+03	0.12	0.19	0.88	0.97	0.78
273	5.82E+03	0.13	0.19	0.88	0.97	0.78
274	5.82E+03	0.13	0.19	0.88	0.97	0.78
275	5.81E+03	0.13	0.19	0.88	0.97	0.78
276	5.81E+03	0.13	0.19	0.88	0.97	0.78
277	5.81E+03	0.13	0.19	0.88	0.98	0.78
278	5.81E+03	0.13	0.20	0.88	0.98	0.78
279	5.81E+03	0.13	0.20	0.88	0.98	0.78
280	5.80E+03	0.13	0.20	0.88	0.98	0.78
281	5.80E+03	0.13	0.20	0.88	0.98	0.78
282	5.80E+03	0.13	0.20	0.88	0.98	0.78

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
283	5.80E+03	0.13	0.20	0.88	0.99	0.77
284	5.80E+03	0.13	0.20	0.89	0.99	0.77
285	5.79E+03	0.13	0.20	0.89	0.99	0.77
286	5.79E+03	0.13	0.20	0.89	0.99	0.77
287	5.79E+03	0.13	0.20	0.89	0.99	0.77
288	5.79E+03	0.13	0.20	0.89	0.99	0.77
289	5.79E+03	0.13	0.20	0.89	0.99	0.77
290	5.78E+03	0.13	0.20	0.89	0.99	0.77
291	5.78E+03	0.13	0.20	0.89	1.00	0.77
292	5.78E+03	0.13	0.20	0.89	1.00	0.77
293	5.78E+03	0.13	0.20	0.89	1.00	0.77
294	5.78E+03	0.13	0.20	0.89	1.00	0.77
295	5.77E+03	0.13	0.20	0.89	1.00	0.77
296	5.77E+03	0.13	0.21	0.89	1.00	0.77
297	5.77E+03	0.13	0.21	0.89	1.00	0.77
298	5.77E+03	0.13	0.21	0.89	1.00	0.77
299	5.77E+03	0.14	0.21	0.89	1.00	0.77
300	5.77E+03	0.14	0.21	0.89	1.01	0.77
301	5.77E+03	0.14	0.21	0.89	1.01	0.77
302	5.76E+03	0.14	0.21	0.89	1.01	0.77
303	5.76E+03	0.14	0.21	0.89	1.01	0.77
304	5.76E+03	0.14	0.21	0.89	1.01	0.77
305	5.76E+03	0.14	0.21	0.89	1.01	0.77
306	5.76E+03	0.14	0.21	0.89	1.01	0.77
307	5.76E+03	0.14	0.21	0.89	1.01	0.77
308	5.76E+03	0.14	0.21	0.89	1.01	0.76
309	5.76E+03	0.14	0.21	0.89	1.01	0.76
310	5.75E+03	0.14	0.21	0.89	1.01	0.76
311	5.75E+03	0.14	0.21	0.89	1.01	0.76
312	5.75E+03	0.14	0.21	0.89	1.01	0.76
313	5.75E+03	0.14	0.21	0.89	1.02	0.76
314	5.75E+03	0.14	0.21	0.89	1.02	0.76
315	5.75E+03	0.14	0.22	0.89	1.02	0.76
316	5.75E+03	0.14	0.22	0.89	1.02	0.76
317	5.75E+03	0.14	0.22	0.89	1.02	0.76
318	5.75E+03	0.14	0.22	0.89	1.02	0.76
319	5.74E+03	0.14	0.22	0.89	1.02	0.76
320	5.74E+03	0.14	0.22	0.89	1.02	0.76
321	5.74E+03	0.14	0.22	0.89	1.02	0.76
322	5.74E+03	0.14	0.22	0.89	1.02	0.76
323	5.74E+03	0.14	0.22	0.89	1.02	0.76

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
324	5.74E+03	0.14	0.22	0.89	1.02	0.76
325	5.74E+03	0.14	0.22	0.89	1.02	0.76
326	5.74E+03	0.15	0.22	0.89	1.02	0.76
327	5.74E+03	0.15	0.22	0.89	1.02	0.76
328	5.74E+03	0.15	0.22	0.89	1.02	0.76
329	5.74E+03	0.15	0.22	0.89	1.02	0.76
330	5.74E+03	0.15	0.22	0.89	1.02	0.76
331	5.74E+03	0.15	0.22	0.89	1.02	0.76
332	5.74E+03	0.15	0.22	0.89	1.02	0.76
333	5.74E+03	0.15	0.22	0.89	1.02	0.76
334	5.74E+03	0.15	0.23	0.89	1.02	0.76
335	5.73E+03	0.15	0.23	0.89	1.02	0.76
336	5.73E+03	0.15	0.23	0.89	1.02	0.76
337	5.73E+03	0.15	0.23	0.89	1.02	0.76
338	5.73E+03	0.15	0.23	0.89	1.02	0.76
339	5.73E+03	0.15	0.23	0.89	1.02	0.76
340	5.73E+03	0.15	0.23	0.89	1.02	0.76
341	5.73E+03	0.15	0.23	0.89	1.02	0.76
342	5.73E+03	0.15	0.23	0.89	1.02	0.76
343	5.73E+03	0.15	0.23	0.89	1.02	0.76
344	5.73E+03	0.15	0.23	0.89	1.02	0.76
345	5.73E+03	0.15	0.23	0.89	1.02	0.76
346	5.73E+03	0.15	0.23	0.89	1.02	0.76
347	5.73E+03	0.15	0.23	0.89	1.02	0.76
348	5.73E+03	0.15	0.23	0.89	1.02	0.76
349	5.73E+03	0.15	0.23	0.89	1.02	0.76
350	5.73E+03	0.15	0.23	0.89	1.02	0.76
351	5.73E+03	0.15	0.23	0.89	1.02	0.75
352	5.73E+03	0.15	0.23	0.89	1.02	0.75
353	5.73E+03	0.16	0.24	0.89	1.02	0.75
354	5.73E+03	0.16	0.24	0.89	1.02	0.75
355	5.73E+03	0.16	0.24	0.89	1.02	0.75
356	5.73E+03	0.16	0.24	0.89	1.02	0.75
357	5.73E+03	0.16	0.24	0.89	1.02	0.75
358	5.73E+03	0.16	0.24	0.89	1.02	0.75
359	5.73E+03	0.16	0.24	0.89	1.02	0.75
360	5.73E+03	0.16	0.24	0.89	1.02	0.75
361	5.73E+03	0.16	0.24	0.89	1.02	0.75
362	5.73E+03	0.16	0.24	0.89	1.02	0.75
363	5.73E+03	0.16	0.24	0.89	1.02	0.75
364	5.73E+03	0.16	0.24	0.89	1.02	0.75

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
365	5.73E+03	0.16	0.24	0.89	1.02	0.75
366	5.73E+03	0.16	0.24	0.89	1.02	0.75
367	5.73E+03	0.16	0.24	0.89	1.02	0.75
368	5.73E+03	0.16	0.24	0.89	1.02	0.75
369	5.73E+03	0.16	0.24	0.89	1.02	0.75
370	5.73E+03	0.16	0.24	0.89	1.02	0.75
371	5.73E+03	0.16	0.24	0.89	1.02	0.75
372	5.74E+03	0.16	0.24	0.89	1.02	0.75
373	5.74E+03	0.16	0.25	0.89	1.02	0.75
374	5.74E+03	0.16	0.25	0.89	1.01	0.75
375	5.74E+03	0.16	0.25	0.89	1.01	0.75
376	5.74E+03	0.16	0.25	0.89	1.01	0.75
377	5.74E+03	0.16	0.25	0.89	1.01	0.75
378	5.74E+03	0.16	0.25	0.89	1.01	0.75
379	5.74E+03	0.16	0.25	0.89	1.01	0.75
380	5.74E+03	0.16	0.25	0.89	1.01	0.75
381	5.74E+03	0.17	0.25	0.89	1.01	0.75
382	5.74E+03	0.17	0.25	0.89	1.01	0.75
383	5.74E+03	0.17	0.25	0.89	1.01	0.75
384	5.74E+03	0.17	0.25	0.89	1.01	0.75
385	5.74E+03	0.17	0.25	0.89	1.01	0.75
386	5.74E+03	0.17	0.25	0.89	1.01	0.75
387	5.74E+03	0.17	0.25	0.89	1.01	0.75
388	5.74E+03	0.17	0.25	0.89	1.01	0.75
389	5.74E+03	0.17	0.25	0.89	1.01	0.75
390	5.74E+03	0.17	0.25	0.89	1.00	0.75
391	5.75E+03	0.17	0.25	0.89	1.00	0.75
392	5.75E+03	0.17	0.25	0.88	1.00	0.75
393	5.75E+03	0.17	0.26	0.88	1.00	0.75
394	5.75E+03	0.17	0.26	0.88	1.00	0.75
395	5.75E+03	0.17	0.26	0.88	1.00	0.75
396	5.75E+03	0.17	0.26	0.88	1.00	0.75
397	5.75E+03	0.17	0.26	0.88	1.00	0.75
398	5.75E+03	0.17	0.26	0.88	1.00	0.75
399	5.75E+03	0.17	0.26	0.88	1.00	0.75
400	5.75E+03	0.17	0.26	0.88	1.00	0.75
401	5.75E+03	0.17	0.26	0.88	1.00	0.75
402	5.75E+03	0.17	0.26	0.88	1.00	0.75
403	5.75E+03	0.17	0.26	0.88	1.00	0.75
404	5.75E+03	0.17	0.26	0.88	0.99	0.75
405	5.76E+03	0.17	0.26	0.88	0.99	0.75

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
406	5.76E+03	0.17	0.26	0.88	0.99	0.75
407	5.76E+03	0.17	0.26	0.88	0.99	0.75
408	5.76E+03	0.17	0.26	0.88	0.99	0.75
409	5.76E+03	0.18	0.26	0.88	0.99	0.75
410	5.76E+03	0.18	0.26	0.88	0.99	0.75
411	5.76E+03	0.18	0.26	0.88	0.99	0.75
412	5.76E+03	0.18	0.26	0.88	0.99	0.75
413	5.76E+03	0.18	0.26	0.88	0.99	0.75
414	5.76E+03	0.18	0.27	0.88	0.99	0.75
415	5.76E+03	0.18	0.27	0.88	0.99	0.75
416	5.76E+03	0.18	0.27	0.88	0.98	0.75
417	5.77E+03	0.18	0.27	0.88	0.98	0.75
418	5.77E+03	0.18	0.27	0.88	0.98	0.75
419	5.77E+03	0.18	0.27	0.87	0.98	0.75
420	5.77E+03	0.18	0.27	0.87	0.98	0.75
421	5.77E+03	0.18	0.27	0.87	0.98	0.75
422	5.77E+03	0.18	0.27	0.87	0.98	0.75
423	5.77E+03	0.18	0.27	0.87	0.98	0.75
424	5.77E+03	0.18	0.27	0.87	0.98	0.75
425	5.77E+03	0.18	0.27	0.87	0.98	0.75
426	5.77E+03	0.18	0.27	0.87	0.98	0.75
427	5.78E+03	0.18	0.27	0.87	0.97	0.75
428	5.78E+03	0.18	0.27	0.87	0.97	0.75
429	5.78E+03	0.18	0.27	0.87	0.97	0.75
430	5.78E+03	0.18	0.27	0.87	0.97	0.75
431	5.78E+03	0.18	0.27	0.87	0.97	0.75
432	5.78E+03	0.18	0.27	0.87	0.97	0.75
433	5.78E+03	0.18	0.27	0.87	0.97	0.75
434	5.78E+03	0.18	0.27	0.87	0.97	0.75
435	5.78E+03	0.18	0.28	0.87	0.97	0.75
436	5.78E+03	0.18	0.28	0.87	0.97	0.75
437	5.78E+03	0.18	0.28	0.87	0.97	0.75
438	5.79E+03	0.19	0.28	0.87	0.96	0.75
439	5.79E+03	0.19	0.28	0.87	0.96	0.75
440	5.79E+03	0.19	0.28	0.87	0.96	0.75
441	5.79E+03	0.19	0.28	0.87	0.96	0.75
442	5.79E+03	0.19	0.28	0.87	0.96	0.75
443	5.79E+03	0.19	0.28	0.86	0.96	0.75
444	5.79E+03	0.19	0.28	0.86	0.96	0.75
445	5.79E+03	0.19	0.28	0.86	0.96	0.75
446	5.79E+03	0.19	0.28	0.86	0.96	0.75

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
447	5.79E+03	0.19	0.28	0.86	0.96	0.75
448	5.80E+03	0.19	0.28	0.86	0.96	0.75
449	5.80E+03	0.19	0.28	0.86	0.95	0.75
450	5.80E+03	0.19	0.28	0.86	0.95	0.75
451	5.80E+03	0.19	0.28	0.86	0.95	0.75
452	5.80E+03	0.19	0.28	0.86	0.95	0.75
453	5.80E+03	0.19	0.28	0.86	0.95	0.75
454	5.80E+03	0.19	0.28	0.86	0.95	0.75
455	5.80E+03	0.19	0.28	0.86	0.95	0.75
456	5.80E+03	0.19	0.29	0.86	0.95	0.75
457	5.80E+03	0.19	0.29	0.86	0.95	0.75
458	5.81E+03	0.19	0.29	0.86	0.95	0.75
459	5.81E+03	0.19	0.29	0.86	0.95	0.75
460	5.81E+03	0.19	0.29	0.86	0.94	0.75
461	5.81E+03	0.19	0.29	0.86	0.94	0.75
462	5.81E+03	0.19	0.29	0.86	0.94	0.75
463	5.81E+03	0.19	0.29	0.86	0.94	0.75
464	5.81E+03	0.19	0.29	0.86	0.94	0.75
465	5.81E+03	0.19	0.29	0.85	0.94	0.75
466	5.81E+03	0.19	0.29	0.85	0.94	0.75
467	5.81E+03	0.19	0.29	0.85	0.94	0.75
468	5.82E+03	0.20	0.29	0.85	0.94	0.75
469	5.82E+03	0.20	0.29	0.85	0.94	0.75
470	5.82E+03	0.20	0.29	0.85	0.94	0.75
471	5.82E+03	0.20	0.29	0.85	0.93	0.75
472	5.82E+03	0.20	0.29	0.85	0.93	0.75
473	5.82E+03	0.20	0.29	0.85	0.93	0.75
474	5.82E+03	0.20	0.29	0.85	0.93	0.75
475	5.82E+03	0.20	0.29	0.85	0.93	0.75
476	5.82E+03	0.20	0.29	0.85	0.93	0.75
477	5.82E+03	0.20	0.29	0.85	0.93	0.75
478	5.83E+03	0.20	0.30	0.85	0.93	0.75
479	5.83E+03	0.20	0.30	0.85	0.93	0.75
480	5.83E+03	0.20	0.30	0.85	0.93	0.75
481	5.83E+03	0.20	0.30	0.85	0.93	0.75
482	5.83E+03	0.20	0.30	0.85	0.92	0.75
483	5.83E+03	0.20	0.30	0.85	0.92	0.75
484	5.83E+03	0.20	0.30	0.85	0.92	0.75
485	5.83E+03	0.20	0.30	0.85	0.92	0.75
486	5.83E+03	0.20	0.30	0.85	0.92	0.75
487	5.83E+03	0.20	0.30	0.85	0.92	0.75

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
488	5.83E+03	0.20	0.30	0.84	0.92	0.75
489	5.84E+03	0.20	0.30	0.84	0.92	0.75
490	5.84E+03	0.20	0.30	0.84	0.92	0.75
491	5.84E+03	0.20	0.30	0.84	0.92	0.75
492	5.84E+03	0.20	0.30	0.84	0.92	0.75
493	5.84E+03	0.20	0.30	0.84	0.92	0.75
494	5.84E+03	0.20	0.30	0.84	0.91	0.75
495	5.84E+03	0.20	0.30	0.84	0.91	0.75
496	5.84E+03	0.20	0.30	0.84	0.91	0.75
497	5.84E+03	0.21	0.30	0.84	0.91	0.75
498	5.84E+03	0.21	0.30	0.84	0.91	0.75
499	5.84E+03	0.21	0.30	0.84	0.91	0.75
500	5.85E+03	0.21	0.30	0.84	0.91	0.75
501	5.85E+03	0.21	0.31	0.84	0.91	0.75
502	5.85E+03	0.21	0.31	0.84	0.91	0.75
503	5.85E+03	0.21	0.31	0.84	0.91	0.75
504	5.85E+03	0.21	0.31	0.84	0.91	0.75
505	5.85E+03	0.21	0.31	0.84	0.91	0.75
506	5.85E+03	0.21	0.31	0.84	0.90	0.75
507	5.85E+03	0.21	0.31	0.84	0.90	0.75
508	5.85E+03	0.21	0.31	0.84	0.90	0.75
509	5.85E+03	0.21	0.31	0.84	0.90	0.75
510	5.85E+03	0.21	0.31	0.84	0.90	0.75
511	5.85E+03	0.21	0.31	0.83	0.90	0.75
512	5.86E+03	0.21	0.31	0.83	0.90	0.75
513	5.86E+03	0.21	0.31	0.83	0.90	0.75
514	5.86E+03	0.21	0.31	0.83	0.90	0.75
515	5.86E+03	0.21	0.31	0.83	0.90	0.75
516	5.86E+03	0.21	0.31	0.83	0.90	0.75
517	5.86E+03	0.21	0.31	0.83	0.90	0.75
518	5.86E+03	0.21	0.31	0.83	0.90	0.75
519	5.86E+03	0.21	0.31	0.83	0.89	0.75
520	5.86E+03	0.21	0.31	0.83	0.89	0.75
521	5.86E+03	0.21	0.31	0.83	0.89	0.75
522	5.86E+03	0.21	0.31	0.83	0.89	0.75
523	5.86E+03	0.21	0.32	0.83	0.89	0.75
524	5.87E+03	0.21	0.32	0.83	0.89	0.75
525	5.87E+03	0.21	0.32	0.83	0.89	0.75
526	5.87E+03	0.21	0.32	0.83	0.89	0.75
527	5.87E+03	0.21	0.32	0.83	0.89	0.75
528	5.87E+03	0.22	0.32	0.83	0.89	0.75

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
529	5.87E+03	0.22	0.32	0.83	0.89	0.75
530	5.87E+03	0.22	0.32	0.83	0.89	0.75
531	5.87E+03	0.22	0.32	0.83	0.89	0.75
532	5.87E+03	0.22	0.32	0.83	0.89	0.75
533	5.87E+03	0.22	0.32	0.83	0.88	0.75
534	5.87E+03	0.22	0.32	0.83	0.88	0.75
535	5.87E+03	0.22	0.32	0.83	0.88	0.75
536	5.87E+03	0.22	0.32	0.83	0.88	0.75
537	5.87E+03	0.22	0.32	0.82	0.88	0.75
538	5.88E+03	0.22	0.32	0.82	0.88	0.75
539	5.88E+03	0.22	0.32	0.82	0.88	0.75
540	5.88E+03	0.22	0.32	0.82	0.88	0.75
541	5.88E+03	0.22	0.32	0.82	0.88	0.75
542	5.88E+03	0.22	0.32	0.82	0.88	0.75
543	5.88E+03	0.22	0.32	0.82	0.88	0.75
544	5.88E+03	0.22	0.32	0.82	0.88	0.75
545	5.88E+03	0.22	0.32	0.82	0.88	0.75
546	5.88E+03	0.22	0.33	0.82	0.88	0.75
547	5.88E+03	0.22	0.33	0.82	0.87	0.75
548	5.88E+03	0.22	0.33	0.82	0.87	0.75
549	5.88E+03	0.22	0.33	0.82	0.87	0.75
550	5.88E+03	0.22	0.33	0.82	0.87	0.75
551	5.88E+03	0.22	0.33	0.82	0.87	0.75
552	5.89E+03	0.22	0.33	0.82	0.87	0.75
553	5.89E+03	0.22	0.33	0.82	0.87	0.75
554	5.89E+03	0.22	0.33	0.82	0.87	0.75
555	5.89E+03	0.22	0.33	0.82	0.87	0.75
556	5.89E+03	0.22	0.33	0.82	0.87	0.75
557	5.89E+03	0.22	0.33	0.82	0.87	0.75
558	5.89E+03	0.23	0.33	0.82	0.87	0.75
559	5.89E+03	0.23	0.33	0.82	0.87	0.75
560	5.89E+03	0.23	0.33	0.82	0.87	0.75
561	5.89E+03	0.23	0.33	0.82	0.87	0.75
562	5.89E+03	0.23	0.33	0.82	0.87	0.75
563	5.89E+03	0.23	0.33	0.82	0.86	0.75
564	5.89E+03	0.23	0.33	0.82	0.86	0.75
565	5.89E+03	0.23	0.33	0.81	0.86	0.75
566	5.89E+03	0.23	0.33	0.81	0.86	0.75
567	5.89E+03	0.23	0.33	0.81	0.86	0.75
568	5.90E+03	0.23	0.33	0.81	0.86	0.75
569	5.90E+03	0.23	0.33	0.81	0.86	0.75

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
570	5.90E+03	0.23	0.34	0.81	0.86	0.75
571	5.90E+03	0.23	0.34	0.81	0.86	0.75
572	5.90E+03	0.23	0.34	0.81	0.86	0.75
573	5.90E+03	0.23	0.34	0.81	0.86	0.75
574	5.90E+03	0.23	0.34	0.81	0.86	0.75
575	5.90E+03	0.23	0.34	0.81	0.86	0.75
576	5.90E+03	0.23	0.34	0.81	0.86	0.75
577	5.90E+03	0.23	0.34	0.81	0.86	0.75
578	5.90E+03	0.23	0.34	0.81	0.86	0.75
579	5.90E+03	0.23	0.34	0.81	0.86	0.75
580	5.90E+03	0.23	0.34	0.81	0.86	0.75
581	5.90E+03	0.23	0.34	0.81	0.85	0.75
582	5.90E+03	0.23	0.34	0.81	0.85	0.75
583	5.90E+03	0.23	0.34	0.81	0.85	0.75
584	5.90E+03	0.23	0.34	0.81	0.85	0.75
585	5.90E+03	0.23	0.34	0.81	0.85	0.75
586	5.90E+03	0.23	0.34	0.81	0.85	0.75
587	5.91E+03	0.23	0.34	0.81	0.85	0.75
588	5.91E+03	0.23	0.34	0.81	0.85	0.75
589	5.91E+03	0.24	0.34	0.81	0.85	0.75
590	5.91E+03	0.24	0.34	0.81	0.85	0.75
591	5.91E+03	0.24	0.34	0.81	0.85	0.75
592	5.91E+03	0.24	0.34	0.81	0.85	0.75
593	5.91E+03	0.24	0.34	0.81	0.85	0.75
594	5.91E+03	0.24	0.35	0.81	0.85	0.75
595	5.91E+03	0.24	0.35	0.81	0.85	0.75
596	5.91E+03	0.24	0.35	0.81	0.85	0.75
597	5.91E+03	0.24	0.35	0.81	0.85	0.75
598	5.91E+03	0.24	0.35	0.80	0.85	0.75
599	5.91E+03	0.24	0.35	0.80	0.85	0.75
600	5.91E+03	0.24	0.35	0.80	0.84	0.75
601	5.91E+03	0.24	0.35	0.80	0.84	0.75
602	5.91E+03	0.24	0.35	0.80	0.84	0.75
603	5.91E+03	0.24	0.35	0.80	0.84	0.75
604	5.91E+03	0.24	0.35	0.80	0.84	0.75
605	5.91E+03	0.24	0.35	0.80	0.84	0.75
606	5.91E+03	0.24	0.35	0.80	0.84	0.75
607	5.91E+03	0.24	0.35	0.80	0.84	0.75
608	5.92E+03	0.24	0.35	0.80	0.84	0.75
609	5.92E+03	0.24	0.35	0.80	0.84	0.75
610	5.92E+03	0.24	0.35	0.80	0.84	0.75

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
611	5.92E+03	0.24	0.35	0.80	0.84	0.75
612	5.92E+03	0.24	0.35	0.80	0.84	0.75
613	5.92E+03	0.24	0.35	0.80	0.84	0.75
614	5.92E+03	0.24	0.35	0.80	0.84	0.75
615	5.92E+03	0.24	0.35	0.80	0.84	0.75
616	5.92E+03	0.24	0.35	0.80	0.84	0.75
617	5.92E+03	0.24	0.35	0.80	0.84	0.75
618	5.92E+03	0.24	0.35	0.80	0.84	0.75
619	5.92E+03	0.24	0.36	0.80	0.84	0.75
620	5.92E+03	0.24	0.36	0.80	0.84	0.75
621	5.92E+03	0.25	0.36	0.80	0.84	0.75
622	5.92E+03	0.25	0.36	0.80	0.83	0.75
623	5.92E+03	0.25	0.36	0.80	0.83	0.75
624	5.92E+03	0.25	0.36	0.80	0.83	0.75
625	5.92E+03	0.25	0.36	0.80	0.83	0.75
626	5.92E+03	0.25	0.36	0.80	0.83	0.75
627	5.92E+03	0.25	0.36	0.80	0.83	0.75
628	5.92E+03	0.25	0.36	0.80	0.83	0.75
629	5.92E+03	0.25	0.36	0.80	0.83	0.75
630	5.92E+03	0.25	0.36	0.80	0.83	0.75
631	5.92E+03	0.25	0.36	0.80	0.83	0.75
632	5.92E+03	0.25	0.36	0.80	0.83	0.75
633	5.92E+03	0.25	0.36	0.80	0.83	0.75
634	5.93E+03	0.25	0.36	0.80	0.83	0.75
635	5.93E+03	0.25	0.36	0.80	0.83	0.75
636	5.93E+03	0.25	0.36	0.79	0.83	0.75
637	5.93E+03	0.25	0.36	0.79	0.83	0.75
638	5.93E+03	0.25	0.36	0.79	0.83	0.75
639	5.93E+03	0.25	0.36	0.79	0.83	0.75
640	5.93E+03	0.25	0.36	0.79	0.83	0.75
641	5.93E+03	0.25	0.36	0.79	0.83	0.75
642	5.93E+03	0.25	0.36	0.79	0.83	0.75
643	5.93E+03	0.25	0.36	0.79	0.83	0.75
644	5.93E+03	0.25	0.37	0.79	0.83	0.75
645	5.93E+03	0.25	0.37	0.79	0.83	0.75
646	5.93E+03	0.25	0.37	0.79	0.83	0.75
647	5.93E+03	0.25	0.37	0.79	0.82	0.75
648	5.93E+03	0.25	0.37	0.79	0.82	0.75
649	5.93E+03	0.25	0.37	0.79	0.82	0.75
650	5.93E+03	0.25	0.37	0.79	0.82	0.75
651	5.93E+03	0.25	0.37	0.79	0.82	0.75

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
652	5.93E+03	0.25	0.37	0.79	0.82	0.75
653	5.93E+03	0.25	0.37	0.79	0.82	0.75
654	5.93E+03	0.26	0.37	0.79	0.82	0.75
655	5.93E+03	0.26	0.37	0.79	0.82	0.75
656	5.93E+03	0.26	0.37	0.79	0.82	0.75
657	5.93E+03	0.26	0.37	0.79	0.82	0.75
658	5.93E+03	0.26	0.37	0.79	0.82	0.75
659	5.93E+03	0.26	0.37	0.79	0.82	0.75
660	5.93E+03	0.26	0.37	0.79	0.82	0.75
661	5.93E+03	0.26	0.37	0.79	0.82	0.75
662	5.93E+03	0.26	0.37	0.79	0.82	0.75
663	5.93E+03	0.26	0.37	0.79	0.82	0.74
664	5.93E+03	0.26	0.37	0.79	0.82	0.74
665	5.93E+03	0.26	0.37	0.79	0.82	0.74
666	5.94E+03	0.26	0.37	0.79	0.82	0.74
667	5.94E+03	0.26	0.37	0.79	0.82	0.74
668	5.94E+03	0.26	0.37	0.79	0.82	0.74
669	5.94E+03	0.26	0.37	0.79	0.82	0.74
670	5.94E+03	0.26	0.38	0.79	0.82	0.74
671	5.94E+03	0.26	0.38	0.79	0.82	0.74
672	5.94E+03	0.26	0.38	0.79	0.82	0.74
673	5.94E+03	0.26	0.38	0.79	0.82	0.74
674	5.94E+03	0.26	0.38	0.79	0.82	0.74
675	5.94E+03	0.26	0.38	0.79	0.81	0.74
676	5.94E+03	0.26	0.38	0.79	0.81	0.74
677	5.94E+03	0.26	0.38	0.79	0.81	0.74
678	5.94E+03	0.26	0.38	0.79	0.81	0.74
679	5.94E+03	0.26	0.38	0.79	0.81	0.74
680	5.94E+03	0.26	0.38	0.78	0.81	0.74
681	5.94E+03	0.26	0.38	0.78	0.81	0.74
682	5.94E+03	0.26	0.38	0.78	0.81	0.74
683	5.94E+03	0.26	0.38	0.78	0.81	0.74
684	5.94E+03	0.26	0.38	0.78	0.81	0.74
685	5.94E+03	0.26	0.38	0.78	0.81	0.74
686	5.94E+03	0.26	0.38	0.78	0.81	0.74
687	5.94E+03	0.27	0.38	0.78	0.81	0.74
688	5.94E+03	0.27	0.38	0.78	0.81	0.74
689	5.94E+03	0.27	0.38	0.78	0.81	0.74
690	5.94E+03	0.27	0.38	0.78	0.81	0.74
691	5.94E+03	0.27	0.38	0.78	0.81	0.74
692	5.94E+03	0.27	0.38	0.78	0.81	0.74

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
693	5.94E+03	0.27	0.38	0.78	0.81	0.74
694	5.94E+03	0.27	0.38	0.78	0.81	0.74
695	5.94E+03	0.27	0.38	0.78	0.81	0.74
696	5.94E+03	0.27	0.39	0.78	0.81	0.74
697	5.94E+03	0.27	0.39	0.78	0.81	0.74
698	5.94E+03	0.27	0.39	0.78	0.81	0.74
699	5.94E+03	0.27	0.39	0.78	0.81	0.74
700	5.94E+03	0.27	0.39	0.78	0.81	0.74
701	5.94E+03	0.27	0.39	0.78	0.81	0.74
702	5.94E+03	0.27	0.39	0.78	0.81	0.74
703	5.94E+03	0.27	0.39	0.78	0.81	0.74
704	5.94E+03	0.27	0.39	0.78	0.81	0.74
705	5.94E+03	0.27	0.39	0.78	0.81	0.74
706	5.94E+03	0.27	0.39	0.78	0.81	0.74
707	5.94E+03	0.27	0.39	0.78	0.80	0.74
708	5.94E+03	0.27	0.39	0.78	0.80	0.74
709	5.95E+03	0.27	0.39	0.78	0.80	0.74
710	5.95E+03	0.27	0.39	0.78	0.80	0.74
711	5.95E+03	0.27	0.39	0.78	0.80	0.74
712	5.95E+03	0.27	0.39	0.78	0.80	0.74
713	5.95E+03	0.27	0.39	0.78	0.80	0.74
714	5.95E+03	0.27	0.39	0.78	0.80	0.74
715	5.95E+03	0.27	0.39	0.78	0.80	0.74
716	5.95E+03	0.27	0.39	0.78	0.80	0.74
717	5.95E+03	0.27	0.39	0.78	0.80	0.74
718	5.95E+03	0.27	0.39	0.78	0.80	0.74
719	5.95E+03	0.27	0.39	0.78	0.80	0.74
720	5.95E+03	0.27	0.39	0.78	0.80	0.74
721	5.95E+03	0.28	0.40	0.78	0.80	0.74
722	5.95E+03	0.28	0.40	0.78	0.80	0.74
723	5.95E+03	0.28	0.40	0.78	0.80	0.74
724	5.95E+03	0.28	0.40	0.78	0.80	0.74
725	5.95E+03	0.28	0.40	0.78	0.80	0.74
726	5.95E+03	0.28	0.40	0.78	0.80	0.74
727	5.95E+03	0.28	0.40	0.78	0.80	0.74
728	5.95E+03	0.28	0.40	0.78	0.80	0.74
729	5.95E+03	0.28	0.40	0.78	0.80	0.74
730	5.95E+03	0.28	0.40	0.78	0.80	0.74
731	5.95E+03	0.28	0.40	0.78	0.80	0.74
732	5.95E+03	0.28	0.40	0.77	0.80	0.74
733	5.95E+03	0.28	0.40	0.77	0.80	0.74

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
734	5.95E+03	0.28	0.40	0.77	0.80	0.74
735	5.95E+03	0.28	0.40	0.77	0.80	0.74
736	5.95E+03	0.28	0.40	0.77	0.80	0.74
737	5.95E+03	0.28	0.40	0.77	0.80	0.74
738	5.95E+03	0.28	0.40	0.77	0.80	0.74
739	5.95E+03	0.28	0.40	0.77	0.80	0.74
740	5.95E+03	0.28	0.40	0.77	0.80	0.74
741	5.95E+03	0.28	0.40	0.77	0.80	0.74
742	5.95E+03	0.28	0.40	0.77	0.80	0.74
743	5.95E+03	0.28	0.40	0.77	0.80	0.74
744	5.95E+03	0.28	0.40	0.77	0.79	0.74
745	5.95E+03	0.28	0.40	0.77	0.79	0.74
746	5.95E+03	0.28	0.40	0.77	0.79	0.74
747	5.95E+03	0.28	0.40	0.77	0.79	0.74
748	5.95E+03	0.28	0.41	0.77	0.79	0.74
749	5.95E+03	0.28	0.41	0.77	0.79	0.74
750	5.95E+03	0.28	0.41	0.77	0.79	0.74
751	5.95E+03	0.28	0.41	0.77	0.79	0.74
752	5.95E+03	0.28	0.41	0.77	0.79	0.74
753	5.95E+03	0.28	0.41	0.77	0.79	0.74
754	5.95E+03	0.28	0.41	0.77	0.79	0.74
755	5.95E+03	0.29	0.41	0.77	0.79	0.74
756	5.95E+03	0.29	0.41	0.77	0.79	0.74
757	5.95E+03	0.29	0.41	0.77	0.79	0.74
758	5.95E+03	0.29	0.41	0.77	0.79	0.74
759	5.95E+03	0.29	0.41	0.77	0.79	0.74
760	5.95E+03	0.29	0.41	0.77	0.79	0.74
761	5.95E+03	0.29	0.41	0.77	0.79	0.74
762	5.95E+03	0.29	0.41	0.77	0.79	0.74
763	5.95E+03	0.29	0.41	0.77	0.79	0.74
764	5.95E+03	0.29	0.41	0.77	0.79	0.74
765	5.95E+03	0.29	0.41	0.77	0.79	0.74
766	5.95E+03	0.29	0.41	0.77	0.79	0.74
767	5.95E+03	0.29	0.41	0.77	0.79	0.74
768	5.95E+03	0.29	0.41	0.77	0.79	0.74
769	5.95E+03	0.29	0.41	0.77	0.79	0.74
770	5.95E+03	0.29	0.41	0.77	0.79	0.74
771	5.95E+03	0.29	0.41	0.77	0.79	0.74
772	5.95E+03	0.29	0.41	0.77	0.79	0.74
773	5.96E+03	0.29	0.41	0.77	0.79	0.74
774	5.96E+03	0.29	0.41	0.77	0.79	0.74

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
775	5.96E+03	0.29	0.42	0.77	0.79	0.74
776	5.96E+03	0.29	0.42	0.77	0.79	0.74
777	5.96E+03	0.29	0.42	0.77	0.79	0.74
778	5.96E+03	0.29	0.42	0.77	0.79	0.74
779	5.96E+03	0.29	0.42	0.77	0.79	0.74
780	5.96E+03	0.29	0.42	0.77	0.79	0.74
781	5.96E+03	0.29	0.42	0.77	0.79	0.74
782	5.96E+03	0.29	0.42	0.77	0.79	0.74
783	5.96E+03	0.29	0.42	0.77	0.79	0.74
784	5.96E+03	0.29	0.42	0.77	0.79	0.74
785	5.96E+03	0.29	0.42	0.77	0.79	0.74
786	5.96E+03	0.29	0.42	0.77	0.79	0.74
787	5.96E+03	0.29	0.42	0.77	0.79	0.74
788	5.96E+03	0.29	0.42	0.77	0.78	0.74
789	5.96E+03	0.29	0.42	0.77	0.78	0.74
790	5.96E+03	0.29	0.42	0.77	0.78	0.74
791	5.96E+03	0.30	0.42	0.77	0.78	0.74
792	5.96E+03	0.30	0.42	0.77	0.78	0.74
793	5.96E+03	0.30	0.42	0.77	0.78	0.74
794	5.96E+03	0.30	0.42	0.77	0.78	0.74
795	5.96E+03	0.30	0.42	0.76	0.78	0.74
796	5.96E+03	0.30	0.42	0.76	0.78	0.74
797	5.96E+03	0.30	0.42	0.76	0.78	0.74
798	5.96E+03	0.30	0.42	0.76	0.78	0.74
799	5.96E+03	0.30	0.42	0.76	0.78	0.74
800	5.96E+03	0.30	0.42	0.76	0.78	0.74
801	5.96E+03	0.30	0.42	0.76	0.78	0.74
802	5.96E+03	0.30	0.43	0.76	0.78	0.74
803	5.96E+03	0.30	0.43	0.76	0.78	0.74
804	5.96E+03	0.30	0.43	0.76	0.78	0.74
805	5.96E+03	0.30	0.43	0.76	0.78	0.74
806	5.96E+03	0.30	0.43	0.76	0.78	0.74
807	5.96E+03	0.30	0.43	0.76	0.78	0.74
808	5.96E+03	0.30	0.43	0.76	0.78	0.74
809	5.96E+03	0.30	0.43	0.76	0.78	0.74
810	5.96E+03	0.30	0.43	0.76	0.78	0.74
811	5.96E+03	0.30	0.43	0.76	0.78	0.74
812	5.96E+03	0.30	0.43	0.76	0.78	0.74
813	5.96E+03	0.30	0.43	0.76	0.78	0.74
814	5.96E+03	0.30	0.43	0.76	0.78	0.74
815	5.96E+03	0.30	0.43	0.76	0.78	0.74

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
816	5.96E+03	0.30	0.43	0.76	0.78	0.74
817	5.96E+03	0.30	0.43	0.76	0.78	0.74
818	5.96E+03	0.30	0.43	0.76	0.78	0.74
819	5.96E+03	0.30	0.43	0.76	0.78	0.74
820	5.96E+03	0.30	0.43	0.76	0.78	0.74
821	5.96E+03	0.30	0.43	0.76	0.78	0.74
822	5.96E+03	0.30	0.43	0.76	0.78	0.74
823	5.96E+03	0.30	0.43	0.76	0.78	0.74
824	5.96E+03	0.30	0.43	0.76	0.78	0.74
825	5.96E+03	0.30	0.43	0.76	0.78	0.74
826	5.96E+03	0.30	0.43	0.76	0.78	0.74
827	5.96E+03	0.31	0.43	0.76	0.78	0.74
828	5.96E+03	0.31	0.43	0.76	0.78	0.74
829	5.96E+03	0.31	0.43	0.76	0.78	0.74
830	5.96E+03	0.31	0.43	0.76	0.78	0.73
831	5.96E+03	0.31	0.44	0.76	0.78	0.73
832	5.96E+03	0.31	0.44	0.76	0.78	0.73
833	5.96E+03	0.31	0.44	0.76	0.78	0.73
834	5.96E+03	0.31	0.44	0.76	0.78	0.73
835	5.96E+03	0.31	0.44	0.76	0.78	0.73
836	5.96E+03	0.31	0.44	0.76	0.78	0.73
837	5.96E+03	0.31	0.44	0.76	0.78	0.73
838	5.96E+03	0.31	0.44	0.76	0.78	0.73
839	5.96E+03	0.31	0.44	0.76	0.77	0.73
840	5.96E+03	0.31	0.44	0.76	0.77	0.73
841	5.96E+03	0.31	0.44	0.76	0.77	0.73
842	5.96E+03	0.31	0.44	0.76	0.77	0.73
843	5.96E+03	0.31	0.44	0.76	0.77	0.73
844	5.96E+03	0.31	0.44	0.76	0.77	0.73
845	5.96E+03	0.31	0.44	0.76	0.77	0.73
846	5.96E+03	0.31	0.44	0.76	0.77	0.73
847	5.96E+03	0.31	0.44	0.76	0.77	0.73
848	5.96E+03	0.31	0.44	0.76	0.77	0.73
849	5.96E+03	0.31	0.44	0.76	0.77	0.73
850	5.96E+03	0.31	0.44	0.76	0.77	0.73
851	5.96E+03	0.31	0.44	0.76	0.77	0.73
852	5.96E+03	0.31	0.44	0.76	0.77	0.73
853	5.96E+03	0.31	0.44	0.76	0.77	0.73
854	5.96E+03	0.31	0.44	0.76	0.77	0.73
855	5.96E+03	0.31	0.44	0.76	0.77	0.73
856	5.96E+03	0.31	0.44	0.76	0.77	0.73

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
857	5.96E+03	0.31	0.44	0.76	0.77	0.73
858	5.96E+03	0.31	0.44	0.76	0.77	0.73
859	5.96E+03	0.31	0.44	0.76	0.77	0.73
860	5.96E+03	0.31	0.45	0.76	0.77	0.73
861	5.96E+03	0.31	0.45	0.76	0.77	0.73
862	5.96E+03	0.32	0.45	0.76	0.77	0.73
863	5.96E+03	0.32	0.45	0.76	0.77	0.73
864	5.96E+03	0.32	0.45	0.76	0.77	0.73
865	5.96E+03	0.32	0.45	0.76	0.77	0.73
866	5.96E+03	0.32	0.45	0.76	0.77	0.73
867	5.96E+03	0.32	0.45	0.76	0.77	0.73
868	5.96E+03	0.32	0.45	0.76	0.77	0.73
869	5.96E+03	0.32	0.45	0.76	0.77	0.73
870	5.96E+03	0.32	0.45	0.75	0.77	0.73
871	5.96E+03	0.32	0.45	0.75	0.77	0.73
872	5.96E+03	0.32	0.45	0.75	0.77	0.73
873	5.96E+03	0.32	0.45	0.75	0.77	0.73
874	5.96E+03	0.32	0.45	0.75	0.77	0.73
875	5.96E+03	0.32	0.45	0.75	0.77	0.73
876	5.96E+03	0.32	0.45	0.75	0.77	0.73
877	5.96E+03	0.32	0.45	0.75	0.77	0.73
878	5.96E+03	0.32	0.45	0.75	0.77	0.73
879	5.96E+03	0.32	0.45	0.75	0.77	0.73
880	5.96E+03	0.32	0.45	0.75	0.77	0.73
881	5.96E+03	0.32	0.45	0.75	0.77	0.73
882	5.96E+03	0.32	0.45	0.75	0.77	0.73
883	5.96E+03	0.32	0.45	0.75	0.77	0.73
884	5.96E+03	0.32	0.45	0.75	0.77	0.73
885	5.96E+03	0.32	0.45	0.75	0.77	0.73
886	5.96E+03	0.32	0.45	0.75	0.77	0.73
887	5.96E+03	0.32	0.45	0.75	0.77	0.73
888	5.96E+03	0.32	0.45	0.75	0.77	0.73
889	5.96E+03	0.32	0.45	0.75	0.77	0.73
890	5.96E+03	0.32	0.46	0.75	0.77	0.73
891	5.97E+03	0.32	0.46	0.75	0.77	0.73
892	5.97E+03	0.32	0.46	0.75	0.77	0.73
893	5.97E+03	0.32	0.46	0.75	0.77	0.73
894	5.97E+03	0.32	0.46	0.75	0.77	0.73
895	5.97E+03	0.32	0.46	0.75	0.77	0.73
896	5.97E+03	0.32	0.46	0.75	0.77	0.73
897	5.97E+03	0.32	0.46	0.75	0.77	0.73

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
898	5.97E+03	0.33	0.46	0.75	0.76	0.73
899	5.97E+03	0.33	0.46	0.75	0.76	0.73
900	5.97E+03	0.33	0.46	0.75	0.76	0.73
901	5.97E+03	0.33	0.46	0.75	0.76	0.73
902	5.97E+03	0.33	0.46	0.75	0.76	0.73
903	5.97E+03	0.33	0.46	0.75	0.76	0.73
904	5.97E+03	0.33	0.46	0.75	0.76	0.73
905	5.97E+03	0.33	0.46	0.75	0.76	0.73
906	5.97E+03	0.33	0.46	0.75	0.76	0.73
907	5.97E+03	0.33	0.46	0.75	0.76	0.73
908	5.97E+03	0.33	0.46	0.75	0.76	0.73
909	5.97E+03	0.33	0.46	0.75	0.76	0.73
910	5.97E+03	0.33	0.46	0.75	0.76	0.73
911	5.97E+03	0.33	0.46	0.75	0.76	0.73
912	5.97E+03	0.33	0.46	0.75	0.76	0.73
913	5.97E+03	0.33	0.46	0.75	0.76	0.73
914	5.97E+03	0.33	0.46	0.75	0.76	0.73
915	5.97E+03	0.33	0.46	0.75	0.76	0.73
916	5.97E+03	0.33	0.46	0.75	0.76	0.73
917	5.97E+03	0.33	0.46	0.75	0.76	0.73
918	5.97E+03	0.33	0.46	0.75	0.76	0.73
919	5.97E+03	0.33	0.46	0.75	0.76	0.73
920	5.97E+03	0.33	0.47	0.75	0.76	0.73
921	5.97E+03	0.33	0.47	0.75	0.76	0.73
922	5.97E+03	0.33	0.47	0.75	0.76	0.73
923	5.97E+03	0.33	0.47	0.75	0.76	0.73
924	5.97E+03	0.33	0.47	0.75	0.76	0.73
925	5.97E+03	0.33	0.47	0.75	0.76	0.73
926	5.97E+03	0.33	0.47	0.75	0.76	0.73
927	5.97E+03	0.33	0.47	0.75	0.76	0.73
928	5.97E+03	0.33	0.47	0.75	0.76	0.73
929	5.97E+03	0.33	0.47	0.75	0.76	0.73
930	5.97E+03	0.33	0.47	0.75	0.76	0.73
931	5.97E+03	0.33	0.47	0.75	0.76	0.73
932	5.97E+03	0.33	0.47	0.75	0.76	0.73
933	5.97E+03	0.33	0.47	0.75	0.76	0.73
934	5.97E+03	0.34	0.47	0.75	0.76	0.73
935	5.97E+03	0.34	0.47	0.75	0.76	0.73
936	5.97E+03	0.34	0.47	0.75	0.76	0.73
937	5.97E+03	0.34	0.47	0.75	0.76	0.73
938	5.97E+03	0.34	0.47	0.75	0.76	0.73

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
939	5.97E+03	0.34	0.47	0.75	0.76	0.73
940	5.97E+03	0.34	0.47	0.75	0.76	0.73
941	5.97E+03	0.34	0.47	0.75	0.76	0.73
942	5.97E+03	0.34	0.47	0.75	0.76	0.73
943	5.97E+03	0.34	0.47	0.75	0.76	0.73
944	5.97E+03	0.34	0.47	0.75	0.76	0.73
945	5.97E+03	0.34	0.47	0.75	0.76	0.73
946	5.97E+03	0.34	0.47	0.75	0.76	0.73
947	5.97E+03	0.34	0.47	0.75	0.76	0.73
948	5.97E+03	0.34	0.47	0.75	0.76	0.73
949	5.97E+03	0.34	0.47	0.75	0.76	0.73
950	5.97E+03	0.34	0.47	0.75	0.76	0.73
951	5.97E+03	0.34	0.47	0.75	0.76	0.73
952	5.97E+03	0.34	0.48	0.75	0.76	0.73
953	5.97E+03	0.34	0.48	0.75	0.76	0.73
954	5.97E+03	0.34	0.48	0.75	0.76	0.73
955	5.97E+03	0.34	0.48	0.75	0.76	0.73
956	5.97E+03	0.34	0.48	0.75	0.76	0.73
957	5.97E+03	0.34	0.48	0.74	0.76	0.73
958	5.97E+03	0.34	0.48	0.74	0.76	0.73
959	5.97E+03	0.34	0.48	0.74	0.76	0.73
960	5.97E+03	0.34	0.48	0.74	0.76	0.73
961	5.97E+03	0.34	0.48	0.74	0.76	0.73
962	5.97E+03	0.34	0.48	0.74	0.76	0.73
963	5.97E+03	0.34	0.48	0.74	0.76	0.73
964	5.97E+03	0.34	0.48	0.74	0.76	0.73
965	5.97E+03	0.34	0.48	0.74	0.76	0.73
966	5.97E+03	0.34	0.48	0.74	0.76	0.73
967	5.97E+03	0.34	0.48	0.74	0.75	0.73
968	5.97E+03	0.34	0.48	0.74	0.75	0.73
969	5.97E+03	0.34	0.48	0.74	0.75	0.73
970	5.97E+03	0.34	0.48	0.74	0.75	0.73
971	5.97E+03	0.35	0.48	0.74	0.75	0.73
972	5.97E+03	0.35	0.48	0.74	0.75	0.73
973	5.97E+03	0.35	0.48	0.74	0.75	0.73
974	5.97E+03	0.35	0.48	0.74	0.75	0.73
975	5.97E+03	0.35	0.48	0.74	0.75	0.73
976	5.97E+03	0.35	0.48	0.74	0.75	0.73
977	5.97E+03	0.35	0.48	0.74	0.75	0.73
978	5.97E+03	0.35	0.48	0.74	0.75	0.73
979	5.97E+03	0.35	0.48	0.74	0.75	0.73

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
980	5.97E+03	0.35	0.48	0.74	0.75	0.73
981	5.97E+03	0.35	0.48	0.74	0.75	0.73
982	5.97E+03	0.35	0.48	0.74	0.75	0.73
983	5.97E+03	0.35	0.48	0.74	0.75	0.73
984	5.97E+03	0.35	0.48	0.74	0.75	0.73
985	5.97E+03	0.35	0.49	0.74	0.75	0.73
986	5.97E+03	0.35	0.49	0.74	0.75	0.73
987	5.97E+03	0.35	0.49	0.74	0.75	0.73
988	5.97E+03	0.35	0.49	0.74	0.75	0.73
989	5.97E+03	0.35	0.49	0.74	0.75	0.73
990	5.97E+03	0.35	0.49	0.74	0.75	0.73
991	5.97E+03	0.35	0.49	0.74	0.75	0.73
992	5.97E+03	0.35	0.49	0.74	0.75	0.73
993	5.97E+03	0.35	0.49	0.74	0.75	0.73
994	5.97E+03	0.35	0.49	0.74	0.75	0.73
995	5.97E+03	0.35	0.49	0.74	0.75	0.73
996	5.97E+03	0.35	0.49	0.74	0.75	0.72
997	5.97E+03	0.35	0.49	0.74	0.75	0.72
998	5.97E+03	0.35	0.49	0.74	0.75	0.72
999	5.97E+03	0.35	0.49	0.74	0.75	0.72
1000	5.97E+03	0.35	0.49	0.74	0.75	0.72
1001	5.97E+03	0.35	0.49	0.74	0.75	0.72
1002	5.97E+03	0.35	0.49	0.74	0.75	0.72
1003	5.97E+03	0.35	0.49	0.74	0.75	0.72
1004	5.97E+03	0.35	0.49	0.74	0.75	0.72
1005	5.97E+03	0.35	0.49	0.74	0.75	0.72
1006	5.97E+03	0.35	0.49	0.74	0.75	0.72
1007	5.97E+03	0.35	0.49	0.74	0.75	0.72
1008	5.97E+03	0.35	0.49	0.74	0.75	0.72
1009	5.97E+03	0.36	0.49	0.74	0.75	0.72
1010	5.97E+03	0.36	0.49	0.74	0.75	0.72
1011	5.97E+03	0.36	0.49	0.74	0.75	0.72
1012	5.97E+03	0.36	0.49	0.74	0.75	0.72
1013	5.97E+03	0.36	0.49	0.74	0.75	0.72
1014	5.97E+03	0.36	0.49	0.74	0.75	0.72
1015	5.97E+03	0.36	0.49	0.74	0.75	0.72
1016	5.97E+03	0.36	0.49	0.74	0.75	0.72
1017	5.97E+03	0.36	0.49	0.74	0.75	0.72
1018	5.97E+03	0.36	0.49	0.74	0.75	0.72
1019	5.97E+03	0.36	0.50	0.74	0.75	0.72
1020	5.97E+03	0.36	0.50	0.74	0.75	0.72

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1021	5.97E+03	0.36	0.50	0.74	0.75	0.72
1022	5.97E+03	0.36	0.50	0.74	0.75	0.72
1023	5.97E+03	0.36	0.50	0.74	0.75	0.72
1024	5.97E+03	0.36	0.50	0.74	0.75	0.72
1025	5.97E+03	0.36	0.50	0.74	0.75	0.72
1026	5.97E+03	0.36	0.50	0.74	0.75	0.72
1027	5.97E+03	0.36	0.50	0.74	0.75	0.72
1028	5.97E+03	0.36	0.50	0.74	0.75	0.72
1029	5.97E+03	0.36	0.50	0.74	0.75	0.72
1030	5.97E+03	0.36	0.50	0.74	0.75	0.72
1031	5.97E+03	0.36	0.50	0.74	0.75	0.72
1032	5.97E+03	0.36	0.50	0.74	0.75	0.72
1033	5.97E+03	0.36	0.50	0.74	0.75	0.72
1034	5.97E+03	0.36	0.50	0.74	0.75	0.72
1035	5.97E+03	0.36	0.50	0.74	0.75	0.72
1036	5.97E+03	0.36	0.50	0.74	0.75	0.72
1037	5.97E+03	0.36	0.50	0.74	0.75	0.72
1038	5.97E+03	0.36	0.50	0.74	0.75	0.72
1039	5.97E+03	0.36	0.50	0.74	0.75	0.72
1040	5.97E+03	0.36	0.50	0.74	0.75	0.72
1041	5.97E+03	0.36	0.50	0.74	0.75	0.72
1042	5.97E+03	0.36	0.50	0.74	0.75	0.72
1043	5.97E+03	0.36	0.50	0.74	0.75	0.72
1044	5.97E+03	0.36	0.50	0.74	0.75	0.72
1045	5.97E+03	0.36	0.50	0.74	0.75	0.72
1046	5.97E+03	0.36	0.50	0.74	0.75	0.72
1047	5.97E+03	0.36	0.50	0.74	0.75	0.72
1048	5.97E+03	0.37	0.50	0.74	0.74	0.72
1049	5.97E+03	0.37	0.50	0.74	0.74	0.72
1050	5.97E+03	0.37	0.50	0.74	0.74	0.72
1051	5.97E+03	0.37	0.50	0.74	0.74	0.72
1052	5.97E+03	0.37	0.50	0.74	0.74	0.72
1053	5.97E+03	0.37	0.50	0.74	0.74	0.72
1054	5.97E+03	0.37	0.51	0.74	0.74	0.72
1055	5.97E+03	0.37	0.51	0.74	0.74	0.72
1056	5.97E+03	0.37	0.51	0.74	0.74	0.72
1057	5.97E+03	0.37	0.51	0.74	0.74	0.72
1058	5.97E+03	0.37	0.51	0.74	0.74	0.72
1059	5.97E+03	0.37	0.51	0.74	0.74	0.72
1060	5.97E+03	0.37	0.51	0.73	0.74	0.72
1061	5.97E+03	0.37	0.51	0.73	0.74	0.72

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F/hr	F	F
1062	5.97E+03	0.37	0.51	0.73	0.74	0.72
1063	5.97E+03	0.37	0.51	0.73	0.74	0.72
1064	5.97E+03	0.37	0.51	0.73	0.74	0.72
1065	5.97E+03	0.37	0.51	0.73	0.74	0.72
1066	5.97E+03	0.37	0.51	0.73	0.74	0.72
1067	5.97E+03	0.37	0.51	0.73	0.74	0.72
1068	5.97E+03	0.37	0.51	0.73	0.74	0.72
1069	5.97E+03	0.37	0.51	0.73	0.74	0.72
1070	5.97E+03	0.37	0.51	0.73	0.74	0.72
1071	5.97E+03	0.37	0.51	0.73	0.74	0.72
1072	5.97E+03	0.37	0.51	0.73	0.74	0.72
1073	5.97E+03	0.37	0.51	0.73	0.74	0.72
1074	5.97E+03	0.37	0.51	0.73	0.74	0.72
1075	5.97E+03	0.37	0.51	0.73	0.74	0.72
1076	5.97E+03	0.37	0.51	0.73	0.74	0.72
1077	5.97E+03	0.37	0.51	0.73	0.74	0.72
1078	5.97E+03	0.37	0.51	0.73	0.74	0.72
1079	5.97E+03	0.37	0.51	0.73	0.74	0.72
1080	5.97E+03	0.37	0.51	0.73	0.74	0.72
1081	5.97E+03	0.37	0.51	0.73	0.74	0.72
1082	5.97E+03	0.37	0.51	0.73	0.74	0.72
1083	5.97E+03	0.37	0.51	0.73	0.74	0.72
1084	5.97E+03	0.37	0.51	0.73	0.74	0.72
1085	5.97E+03	0.37	0.51	0.73	0.74	0.72
1086	5.97E+03	0.37	0.51	0.73	0.74	0.72
1087	5.97E+03	0.38	0.51	0.73	0.74	0.72
1088	5.97E+03	0.38	0.51	0.73	0.74	0.72
1089	5.97E+03	0.38	0.51	0.73	0.74	0.72
1090	5.97E+03	0.38	0.52	0.73	0.74	0.72
1091	5.97E+03	0.38	0.52	0.73	0.74	0.72
1092	5.97E+03	0.38	0.52	0.73	0.74	0.72
1093	5.97E+03	0.38	0.52	0.73	0.74	0.72
1094	5.97E+03	0.38	0.52	0.73	0.74	0.72
1095	5.97E+03	0.38	0.52	0.73	0.74	0.72
1096	5.97E+03	0.38	0.52	0.73	0.74	0.72
1097	5.97E+03	0.38	0.52	0.73	0.74	0.72
1098	5.97E+03	0.38	0.52	0.73	0.74	0.72
1099	5.97E+03	0.38	0.52	0.73	0.74	0.72
1100	5.97E+03	0.38	0.52	0.73	0.74	0.72
1101	5.97E+03	0.38	0.52	0.73	0.74	0.72
1102	5.97E+03	0.38	0.52	0.73	0.74	0.72

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1103	5.97E+03	0.38	0.52	0.73	0.74	0.72
1104	5.97E+03	0.38	0.52	0.73	0.74	0.72
1105	5.97E+03	0.38	0.52	0.73	0.74	0.72
1106	5.97E+03	0.38	0.52	0.73	0.74	0.72
1107	5.97E+03	0.38	0.52	0.73	0.74	0.72
1108	5.97E+03	0.38	0.52	0.73	0.74	0.72
1109	5.97E+03	0.38	0.52	0.73	0.74	0.72
1110	5.97E+03	0.38	0.52	0.73	0.74	0.72
1111	5.97E+03	0.38	0.52	0.73	0.74	0.72
1112	5.97E+03	0.38	0.52	0.73	0.74	0.72
1113	5.97E+03	0.38	0.52	0.73	0.74	0.72
1114	5.97E+03	0.38	0.52	0.73	0.74	0.72
1115	5.97E+03	0.38	0.52	0.73	0.74	0.72
1116	5.97E+03	0.38	0.52	0.73	0.74	0.72
1117	5.97E+03	0.38	0.52	0.73	0.74	0.72
1118	5.97E+03	0.38	0.52	0.73	0.74	0.72
1119	5.97E+03	0.38	0.52	0.73	0.74	0.72
1120	5.97E+03	0.38	0.52	0.73	0.74	0.72
1121	5.97E+03	0.38	0.52	0.73	0.74	0.72
1122	5.97E+03	0.38	0.52	0.73	0.74	0.72
1123	5.97E+03	0.38	0.52	0.73	0.74	0.72
1124	5.97E+03	0.38	0.52	0.73	0.74	0.72
1125	5.97E+03	0.38	0.52	0.73	0.74	0.72
1126	5.97E+03	0.38	0.52	0.73	0.74	0.72
1127	5.97E+03	0.38	0.52	0.73	0.74	0.72
1128	5.97E+03	0.39	0.53	0.73	0.74	0.72
1129	5.97E+03	0.39	0.53	0.73	0.74	0.72
1130	5.97E+03	0.39	0.53	0.73	0.74	0.72
1131	5.97E+03	0.39	0.53	0.73	0.74	0.72
1132	5.97E+03	0.39	0.53	0.73	0.74	0.72
1133	5.97E+03	0.39	0.53	0.73	0.74	0.72
1134	5.97E+03	0.39	0.53	0.73	0.74	0.72
1135	5.97E+03	0.39	0.53	0.73	0.74	0.72
1136	5.97E+03	0.39	0.53	0.73	0.74	0.72
1137	5.97E+03	0.39	0.53	0.73	0.74	0.72
1138	5.97E+03	0.39	0.53	0.73	0.74	0.72
1139	5.97E+03	0.39	0.53	0.73	0.74	0.72
1140	5.97E+03	0.39	0.53	0.73	0.74	0.72
1141	5.97E+03	0.39	0.53	0.73	0.74	0.72
1142	5.97E+03	0.39	0.53	0.73	0.74	0.72
1143	5.97E+03	0.39	0.53	0.73	0.73	0.72

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1144	5.97E+03	0.39	0.53	0.73	0.73	0.72
1145	5.97E+03	0.39	0.53	0.73	0.73	0.72
1146	5.97E+03	0.39	0.53	0.73	0.73	0.72
1147	5.97E+03	0.39	0.53	0.73	0.73	0.72
1148	5.97E+03	0.39	0.53	0.73	0.73	0.72
1149	5.97E+03	0.39	0.53	0.73	0.73	0.72
1150	5.97E+03	0.39	0.53	0.73	0.73	0.72
1151	5.97E+03	0.39	0.53	0.73	0.73	0.72
1152	5.97E+03	0.39	0.53	0.73	0.73	0.72
1153	5.97E+03	0.39	0.53	0.73	0.73	0.72
1154	5.97E+03	0.39	0.53	0.73	0.73	0.72
1155	5.97E+03	0.39	0.53	0.73	0.73	0.72
1156	5.97E+03	0.39	0.53	0.73	0.73	0.72
1157	5.97E+03	0.39	0.53	0.73	0.73	0.72
1158	5.97E+03	0.39	0.53	0.73	0.73	0.72
1159	5.97E+03	0.39	0.53	0.73	0.73	0.72
1160	5.97E+03	0.39	0.53	0.73	0.73	0.72
1161	5.97E+03	0.39	0.53	0.73	0.73	0.72
1162	5.97E+03	0.39	0.53	0.73	0.73	0.72
1163	5.97E+03	0.39	0.53	0.73	0.73	0.72
1164	5.97E+03	0.39	0.53	0.73	0.73	0.72
1165	5.97E+03	0.39	0.53	0.73	0.73	0.72
1166	5.97E+03	0.39	0.53	0.73	0.73	0.72
1167	5.97E+03	0.39	0.53	0.73	0.73	0.72
1168	5.97E+03	0.39	0.54	0.73	0.73	0.72
1169	5.97E+03	0.40	0.54	0.73	0.73	0.72
1170	5.97E+03	0.40	0.54	0.73	0.73	0.72
1171	5.97E+03	0.40	0.54	0.73	0.73	0.72
1172	5.97E+03	0.40	0.54	0.73	0.73	0.71
1173	5.97E+03	0.40	0.54	0.73	0.73	0.71
1174	5.97E+03	0.40	0.54	0.73	0.73	0.71
1175	5.97E+03	0.40	0.54	0.73	0.73	0.71
1176	5.97E+03	0.40	0.54	0.73	0.73	0.71
1177	5.97E+03	0.40	0.54	0.73	0.73	0.71
1178	5.97E+03	0.40	0.54	0.73	0.73	0.71
1179	5.97E+03	0.40	0.54	0.73	0.73	0.71
1180	5.97E+03	0.40	0.54	0.72	0.73	0.71
1181	5.97E+03	0.40	0.54	0.72	0.73	0.71
1182	5.97E+03	0.40	0.54	0.72	0.73	0.71
1183	5.97E+03	0.40	0.54	0.72	0.73	0.71
1184	5.97E+03	0.40	0.54	0.72	0.73	0.71

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1185	5.97E+03	0.40	0.54	0.72	0.73	0.71
1186	5.97E+03	0.40	0.54	0.72	0.73	0.71
1187	5.97E+03	0.40	0.54	0.72	0.73	0.71
1188	5.97E+03	0.40	0.54	0.72	0.73	0.71
1189	5.97E+03	0.40	0.54	0.72	0.73	0.71
1190	5.97E+03	0.40	0.54	0.72	0.73	0.71
1191	5.97E+03	0.40	0.54	0.72	0.73	0.71
1192	5.97E+03	0.40	0.54	0.72	0.73	0.71
1193	5.97E+03	0.40	0.54	0.72	0.73	0.71
1194	5.97E+03	0.40	0.54	0.72	0.73	0.71
1195	5.97E+03	0.40	0.54	0.72	0.73	0.71
1196	5.97E+03	0.40	0.54	0.72	0.73	0.71
1197	5.97E+03	0.40	0.54	0.72	0.73	0.71
1198	5.97E+03	0.40	0.54	0.72	0.73	0.71
1199	5.97E+03	0.40	0.54	0.72	0.73	0.71
1200	5.97E+03	0.40	0.54	0.72	0.73	0.71
1201	5.97E+03	0.40	0.54	0.72	0.73	0.71
1202	5.97E+03	0.40	0.54	0.72	0.73	0.71
1203	5.97E+03	0.40	0.54	0.72	0.73	0.71
1204	5.97E+03	0.40	0.54	0.72	0.73	0.71
1205	5.97E+03	0.40	0.54	0.72	0.73	0.71
1206	5.97E+03	0.40	0.54	0.72	0.73	0.71
1207	5.97E+03	0.40	0.54	0.72	0.73	0.71
1208	5.97E+03	0.40	0.54	0.72	0.73	0.71
1209	5.97E+03	0.40	0.55	0.72	0.73	0.71
1210	5.97E+03	0.40	0.55	0.72	0.73	0.71
1211	5.97E+03	0.41	0.55	0.72	0.73	0.71
1212	5.97E+03	0.41	0.55	0.72	0.73	0.71
1213	5.97E+03	0.41	0.55	0.72	0.73	0.71
1214	5.97E+03	0.41	0.55	0.72	0.73	0.71
1215	5.97E+03	0.41	0.55	0.72	0.73	0.71
1216	5.97E+03	0.41	0.55	0.72	0.73	0.71
1217	5.96E+03	0.41	0.55	0.72	0.73	0.71
1218	5.96E+03	0.41	0.55	0.72	0.73	0.71
1219	5.96E+03	0.41	0.55	0.72	0.73	0.71
1220	5.96E+03	0.41	0.55	0.72	0.73	0.71
1221	5.96E+03	0.41	0.55	0.72	0.73	0.71
1222	5.96E+03	0.41	0.55	0.72	0.73	0.71
1223	5.96E+03	0.41	0.55	0.72	0.73	0.71
1224	5.96E+03	0.41	0.55	0.72	0.73	0.71
1225	5.96E+03	0.41	0.55	0.72	0.73	0.71

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1226	5.96E+03	0.41	0.55	1.73	0.00	0.71
1227	6.17E+03	0.41	0.55	1.46	0.00	0.74
1228	6.32E+03	0.41	0.55	1.26	0.00	0.75
1229	6.42E+03	0.41	0.55	1.12	0.00	0.77
1230	6.49E+03	0.41	0.55	1.03	0.00	0.78
1231	6.55E+03	0.41	0.55	0.96	0.00	0.78
1232	6.58E+03	0.41	0.55	0.91	0.00	0.79
1233	6.61E+03	0.41	0.55	0.88	0.00	0.79
1234	6.62E+03	0.41	0.55	0.85	0.00	0.79
1235	6.64E+03	0.41	0.55	0.84	0.00	0.79
1236	6.65E+03	0.41	0.55	0.83	0.00	0.79
1237	6.65E+03	0.41	0.55	0.82	0.00	0.79
1238	6.66E+03	0.41	0.55	0.81	0.00	0.79
1239	6.66E+03	0.41	0.55	0.81	0.00	0.79
1240	6.66E+03	0.41	0.55	0.81	0.00	0.79
1241	6.66E+03	0.41	0.55	0.80	0.00	0.79
1242	6.66E+03	0.41	0.55	0.80	0.00	0.79
1243	6.66E+03	0.41	0.55	0.80	0.00	0.79
1244	6.66E+03	0.41	0.55	0.80	0.00	0.79
1245	6.66E+03	0.41	0.55	0.80	0.00	0.79
1246	6.66E+03	0.41	0.56	0.80	0.00	0.79
1247	6.66E+03	0.41	0.56	0.80	0.00	0.79
1248	6.66E+03	0.41	0.56	0.80	0.00	0.79
1249	6.66E+03	0.41	0.56	0.80	0.00	0.79
1250	6.66E+03	0.42	0.56	0.80	0.00	0.79
1251	6.66E+03	0.42	0.56	0.80	0.00	0.79
1252	6.66E+03	0.42	0.56	0.80	0.00	0.79
1253	6.66E+03	0.42	0.56	0.80	0.00	0.79
1254	6.66E+03	0.42	0.56	0.80	0.00	0.79
1255	6.66E+03	0.42	0.56	0.80	0.00	0.79
1256	6.66E+03	0.42	0.56	0.80	0.00	0.79
1257	6.66E+03	0.42	0.56	0.80	0.00	0.79
1258	6.66E+03	0.42	0.56	0.80	0.00	0.79
1259	6.66E+03	0.42	0.56	0.80	0.00	0.79
1260	6.66E+03	0.42	0.56	0.80	0.00	0.79
1261	6.66E+03	0.42	0.56	0.80	0.00	0.79
1262	6.66E+03	0.42	0.56	0.80	0.00	0.79
1263	6.66E+03	0.42	0.56	0.80	0.00	0.79
1264	6.66E+03	0.42	0.56	0.80	0.00	0.79
1265	6.66E+03	0.42	0.56	0.80	0.00	0.79
1266	6.66E+03	0.42	0.56	0.80	0.00	0.79

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1267	6.66E+03	0.42	0.56	0.80	0.00	0.79
1268	6.66E+03	0.42	0.56	0.80	0.00	0.79
1269	6.66E+03	0.42	0.56	0.80	0.00	0.79
1270	6.66E+03	0.42	0.56	0.80	0.00	0.79
1271	6.66E+03	0.42	0.56	0.80	0.00	0.79
1272	6.66E+03	0.42	0.56	0.80	0.00	0.79
1273	6.66E+03	0.42	0.56	0.80	0.00	0.79
1274	6.66E+03	0.42	0.56	0.80	0.00	0.79
1275	6.66E+03	0.42	0.56	0.80	0.00	0.79
1276	6.66E+03	0.42	0.56	0.80	0.00	0.79
1277	6.66E+03	0.42	0.56	0.80	0.00	0.79
1278	6.66E+03	0.42	0.56	0.80	0.00	0.79
1279	6.66E+03	0.42	0.57	0.80	0.00	0.79
1280	6.66E+03	0.42	0.57	0.80	0.00	0.79
1281	6.66E+03	0.42	0.57	0.80	0.00	0.79
1282	6.66E+03	0.42	0.57	0.80	0.00	0.79
1283	6.66E+03	0.42	0.57	0.80	0.00	0.79
1284	6.66E+03	0.42	0.57	0.80	0.00	0.79
1285	6.66E+03	0.42	0.57	0.80	0.00	0.79
1286	6.66E+03	0.43	0.57	0.80	0.00	0.79
1287	6.66E+03	0.43	0.57	0.80	0.00	0.79
1288	6.66E+03	0.43	0.57	0.80	0.00	0.79
1289	6.66E+03	0.43	0.57	0.79	0.00	0.79
1290	6.66E+03	0.43	0.57	0.79	0.00	0.79
1291	6.66E+03	0.43	0.57	0.79	0.00	0.79
1292	6.66E+03	0.43	0.57	0.79	0.00	0.79
1293	6.66E+03	0.43	0.57	0.79	0.00	0.79
1294	6.66E+03	0.43	0.57	0.79	0.00	0.79
1295	6.66E+03	0.43	0.57	0.79	0.00	0.79
1296	6.66E+03	0.43	0.57	0.79	0.00	0.79
1297	6.66E+03	0.43	0.57	0.79	0.00	0.79
1298	6.66E+03	0.43	0.57	0.79	0.00	0.79
1299	6.66E+03	0.43	0.57	0.79	0.00	0.79
1300	6.66E+03	0.43	0.57	0.79	0.00	0.79
1301	6.66E+03	0.43	0.57	0.79	0.00	0.79
1302	6.66E+03	0.43	0.57	0.79	0.00	0.79
1303	6.66E+03	0.43	0.57	0.79	0.00	0.79
1304	6.66E+03	0.43	0.57	0.79	0.00	0.79
1305	6.66E+03	0.43	0.57	0.79	0.00	0.79
1306	6.66E+03	0.43	0.57	0.79	0.00	0.79
1307	6.66E+03	0.43	0.57	0.79	0.00	0.79

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1308	6.66E+03	0.43	0.57	0.79	0.00	0.79
1309	6.65E+03	0.43	0.57	0.79	0.00	0.79
1310	6.65E+03	0.43	0.57	0.79	0.00	0.79
1311	6.65E+03	0.43	0.57	0.79	0.00	0.79
1312	6.65E+03	0.43	0.58	0.79	0.00	0.79
1313	6.65E+03	0.43	0.58	0.79	0.00	0.79
1314	6.65E+03	0.43	0.58	0.79	0.00	0.79
1315	6.65E+03	0.43	0.58	0.79	0.00	0.79
1316	6.65E+03	0.43	0.58	0.79	0.00	0.79
1317	6.65E+03	0.43	0.58	0.79	0.00	0.79
1318	6.65E+03	0.43	0.58	0.79	0.00	0.79
1319	6.65E+03	0.43	0.58	0.79	0.00	0.79
1320	6.65E+03	0.43	0.58	0.79	0.00	0.79
1321	6.65E+03	0.43	0.58	0.79	0.00	0.79
1322	6.65E+03	0.43	0.58	0.79	0.00	0.79
1323	6.65E+03	0.44	0.58	0.79	0.00	0.79
1324	6.65E+03	0.44	0.58	0.79	0.00	0.79
1325	6.65E+03	0.44	0.58	0.79	0.00	0.79
1326	6.65E+03	0.44	0.58	0.79	0.00	0.79
1327	6.65E+03	0.44	0.58	0.79	0.00	0.79
1328	6.65E+03	0.44	0.58	0.79	0.00	0.79
1329	6.65E+03	0.44	0.58	0.79	0.00	0.79
1330	6.65E+03	0.44	0.58	0.79	0.00	0.79
1331	6.65E+03	0.44	0.58	0.79	0.00	0.79
1332	6.65E+03	0.44	0.58	0.79	0.00	0.79
1333	6.65E+03	0.44	0.58	0.79	0.00	0.79
1334	6.65E+03	0.44	0.58	0.79	0.00	0.79
1335	6.65E+03	0.44	0.58	0.79	0.00	0.79
1336	6.65E+03	0.44	0.58	0.79	0.00	0.79
1337	6.65E+03	0.44	0.58	0.79	0.00	0.79
1338	6.65E+03	0.44	0.58	0.79	0.00	0.79
1339	6.65E+03	0.44	0.58	0.79	0.00	0.79
1340	6.65E+03	0.44	0.58	0.79	0.00	0.79
1341	6.65E+03	0.44	0.58	0.79	0.00	0.79
1342	6.65E+03	0.44	0.58	0.79	0.00	0.79
1343	6.65E+03	0.44	0.58	0.79	0.00	0.79
1344	6.65E+03	0.44	0.58	0.79	0.00	0.79
1345	6.65E+03	0.44	0.58	0.79	0.00	0.79
1346	6.65E+03	0.44	0.58	0.79	0.00	0.79
1347	6.65E+03	0.44	0.59	0.79	0.00	0.79
1348	6.65E+03	0.44	0.59	0.79	0.00	0.79

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1349	6.65E+03	0.44	0.59	0.79	0.00	0.79
1350	6.65E+03	0.44	0.59	0.79	0.00	0.79
1351	6.65E+03	0.44	0.59	0.79	0.00	0.79
1352	6.65E+03	0.44	0.59	0.79	0.00	0.79
1353	6.65E+03	0.44	0.59	0.79	0.00	0.79
1354	6.65E+03	0.44	0.59	0.79	0.00	0.79
1355	6.65E+03	0.44	0.59	0.79	0.00	0.79
1356	6.65E+03	0.44	0.59	0.79	0.00	0.79
1357	6.65E+03	0.44	0.59	0.79	0.00	0.79
1358	6.65E+03	0.44	0.59	0.79	0.00	0.79
1359	6.65E+03	0.44	0.59	0.79	0.00	0.79
1360	6.65E+03	0.44	0.59	0.79	0.00	0.79
1361	6.65E+03	0.45	0.59	0.79	0.00	0.79
1362	6.65E+03	0.45	0.59	0.79	0.00	0.79
1363	6.65E+03	0.45	0.59	0.79	0.00	0.79
1364	6.65E+03	0.45	0.59	0.79	0.00	0.79
1365	6.65E+03	0.45	0.59	0.79	0.00	0.79
1366	6.65E+03	0.45	0.59	0.79	0.00	0.79
1367	6.65E+03	0.45	0.59	0.79	0.00	0.79
1368	6.65E+03	0.45	0.59	0.79	0.00	0.79
1369	6.65E+03	0.45	0.59	0.79	0.00	0.78
1370	6.65E+03	0.45	0.59	0.79	0.00	0.78
1371	6.65E+03	0.45	0.59	0.79	0.00	0.78
1372	6.65E+03	0.45	0.59	0.79	0.00	0.78
1373	6.65E+03	0.45	0.59	0.79	0.00	0.78
1374	6.65E+03	0.45	0.59	0.79	0.00	0.78
1375	6.65E+03	0.45	0.59	0.79	0.00	0.78
1376	6.64E+03	0.45	0.59	0.79	0.00	0.78
1377	6.64E+03	0.45	0.59	0.79	0.00	0.78
1378	6.64E+03	0.45	0.59	0.79	0.00	0.78
1379	6.64E+03	0.45	0.59	0.79	0.00	0.78
1380	6.64E+03	0.45	0.59	0.79	0.00	0.78
1381	6.64E+03	0.45	0.59	0.79	0.00	0.78
1382	6.64E+03	0.45	0.59	0.79	0.00	0.78
1383	6.64E+03	0.45	0.59	0.79	0.00	0.78
1384	6.64E+03	0.45	0.60	0.79	0.00	0.78
1385	6.64E+03	0.45	0.60	0.79	0.00	0.78
1386	6.64E+03	0.45	0.60	0.79	0.00	0.78
1387	6.64E+03	0.45	0.60	0.79	0.00	0.78
1388	6.64E+03	0.45	0.60	0.79	0.00	0.78
1389	6.64E+03	0.45	0.60	0.79	0.00	0.78

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1390	6.64E+03	0.45	0.60	0.79	0.00	0.78
1391	6.64E+03	0.45	0.60	0.79	0.00	0.78
1392	6.64E+03	0.45	0.60	0.79	0.00	0.78
1393	6.64E+03	0.45	0.60	0.79	0.00	0.78
1394	6.64E+03	0.45	0.60	0.79	0.00	0.78
1395	6.64E+03	0.45	0.60	0.79	0.00	0.78
1396	6.64E+03	0.45	0.60	0.79	0.00	0.78
1397	6.64E+03	0.45	0.60	0.79	0.00	0.78
1398	6.64E+03	0.45	0.60	0.79	0.00	0.78
1399	6.64E+03	0.45	0.60	0.79	0.00	0.78
1400	6.64E+03	0.46	0.60	0.79	0.00	0.78
1401	6.64E+03	0.46	0.60	0.79	0.00	0.78
1402	6.64E+03	0.46	0.60	0.79	0.00	0.78
1403	6.64E+03	0.46	0.60	0.79	0.00	0.78
1404	6.64E+03	0.46	0.60	0.79	0.00	0.78
1405	6.64E+03	0.46	0.60	0.79	0.00	0.78
1406	6.64E+03	0.46	0.60	0.79	0.00	0.78
1407	6.64E+03	0.46	0.60	0.79	0.00	0.78
1408	6.64E+03	0.46	0.60	0.79	0.00	0.78
1409	6.64E+03	0.46	0.60	0.79	0.00	0.78
1410	6.64E+03	0.46	0.60	0.79	0.00	0.78
1411	6.64E+03	0.46	0.60	0.78	0.00	0.78
1412	6.64E+03	0.46	0.60	0.78	0.00	0.78
1413	6.64E+03	0.46	0.60	0.78	0.00	0.78
1414	6.64E+03	0.46	0.60	0.78	0.00	0.78
1415	6.64E+03	0.46	0.60	0.78	0.00	0.78
1416	6.64E+03	0.46	0.60	0.78	0.00	0.78
1417	6.64E+03	0.46	0.60	0.78	0.00	0.78
1418	6.64E+03	0.46	0.60	0.78	0.00	0.78
1419	6.64E+03	0.46	0.60	0.78	0.00	0.78
1420	6.64E+03	0.46	0.60	0.78	0.00	0.78
1421	6.64E+03	0.46	0.60	0.78	0.00	0.78
1422	6.64E+03	0.46	0.61	0.78	0.00	0.78
1423	6.64E+03	0.46	0.61	0.78	0.00	0.78
1424	6.64E+03	0.46	0.61	0.78	0.00	0.78
1425	6.64E+03	0.46	0.61	0.78	0.00	0.78
1426	6.64E+03	0.46	0.61	0.78	0.00	0.78
1427	6.64E+03	0.46	0.61	0.78	0.00	0.78
1428	6.64E+03	0.46	0.61	0.78	0.00	0.78
1429	6.64E+03	0.46	0.61	0.78	0.00	0.78
1430	6.64E+03	0.46	0.61	0.78	0.00	0.78

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1431	6.64E+03	0.46	0.61	0.78	0.00	0.78
1432	6.64E+03	0.46	0.61	0.78	0.00	0.78
1433	6.64E+03	0.46	0.61	0.78	0.00	0.78
1434	6.64E+03	0.46	0.61	0.78	0.00	0.78
1435	6.64E+03	0.46	0.61	0.78	0.00	0.78
1436	6.64E+03	0.46	0.61	0.78	0.00	0.78
1437	6.64E+03	0.46	0.61	0.78	0.00	0.78
1438	6.64E+03	0.46	0.61	0.78	0.00	0.78
1439	6.64E+03	0.47	0.61	0.78	0.00	0.78
1440	6.64E+03	0.47	0.61	0.78	0.00	0.78
1441	6.64E+03	0.47	0.61	0.78	0.00	0.78
1442	6.64E+03	0.47	0.61	0.78	0.00	0.78
1443	6.64E+03	0.47	0.61	0.78	0.00	0.78
1444	6.64E+03	0.47	0.61	0.78	0.00	0.78
1445	6.63E+03	0.47	0.61	0.78	0.00	0.78
1446	6.63E+03	0.47	0.61	0.78	0.00	0.78
1447	6.63E+03	0.47	0.61	0.78	0.00	0.78
1448	6.63E+03	0.47	0.61	0.78	0.00	0.78
1449	6.63E+03	0.47	0.61	0.78	0.00	0.78
1450	6.63E+03	0.47	0.61	0.78	0.00	0.78
1451	6.63E+03	0.47	0.61	0.78	0.00	0.78
1452	6.63E+03	0.47	0.61	0.78	0.00	0.78
1453	6.63E+03	0.47	0.61	0.78	0.00	0.78
1454	6.63E+03	0.47	0.61	0.78	0.00	0.78
1455	6.63E+03	0.47	0.61	0.78	0.00	0.78
1456	6.63E+03	0.47	0.61	0.78	0.00	0.78
1457	6.63E+03	0.47	0.61	0.78	0.00	0.78
1458	6.63E+03	0.47	0.61	0.78	0.00	0.78
1459	6.63E+03	0.47	0.61	0.78	0.00	0.78
1460	6.63E+03	0.47	0.61	0.78	0.00	0.78
1461	6.63E+03	0.47	0.61	0.78	0.00	0.78
1462	6.63E+03	0.47	0.62	0.78	0.00	0.78
1463	6.63E+03	0.47	0.62	0.78	0.00	0.78
1464	6.63E+03	0.47	0.62	0.78	0.00	0.78
1465	6.63E+03	0.47	0.62	0.78	0.00	0.78
1466	6.63E+03	0.47	0.62	0.78	0.00	0.78
1467	6.63E+03	0.47	0.62	0.78	0.00	0.78
1468	6.63E+03	0.47	0.62	0.78	0.00	0.78
1469	6.63E+03	0.47	0.62	0.78	0.00	0.78
1470	6.63E+03	0.47	0.62	0.78	0.00	0.78
1471	6.63E+03	0.47	0.62	0.78	0.00	0.78

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1472	6.63E+03	0.47	0.62	0.78	0.00	0.78
1473	6.63E+03	0.47	0.62	0.78	0.00	0.78
1474	6.63E+03	0.47	0.62	0.78	0.00	0.78
1475	6.63E+03	0.47	0.62	0.78	0.00	0.78
1476	6.63E+03	0.47	0.62	0.78	0.00	0.78
1477	6.63E+03	0.47	0.62	0.78	0.00	0.78
1478	6.63E+03	0.47	0.62	0.78	0.00	0.78
1479	6.63E+03	0.47	0.62	0.78	0.00	0.78
1480	6.63E+03	0.48	0.62	0.78	0.00	0.78
1481	6.63E+03	0.48	0.62	0.78	0.00	0.78
1482	6.63E+03	0.48	0.62	0.78	0.00	0.78
1483	6.63E+03	0.48	0.62	0.78	0.00	0.78
1484	6.63E+03	0.48	0.62	0.78	0.00	0.78
1485	6.63E+03	0.48	0.62	0.78	0.00	0.78
1486	6.63E+03	0.48	0.62	0.78	0.00	0.78
1487	6.63E+03	0.48	0.62	0.78	0.00	0.78
1488	6.63E+03	0.48	0.62	0.78	0.00	0.78
1489	6.63E+03	0.48	0.62	0.78	0.00	0.78
1490	6.63E+03	0.48	0.62	0.78	0.00	0.78
1491	6.63E+03	0.48	0.62	0.78	0.00	0.78
1492	6.63E+03	0.48	0.62	0.78	0.00	0.78
1493	6.63E+03	0.48	0.62	0.78	0.00	0.78
1494	6.63E+03	0.48	0.62	0.78	0.00	0.78
1495	6.63E+03	0.48	0.62	0.78	0.00	0.78
1496	6.63E+03	0.48	0.62	0.78	0.00	0.78
1497	6.63E+03	0.48	0.62	0.78	0.00	0.78
1498	6.63E+03	0.48	0.62	0.78	0.00	0.78
1499	6.63E+03	0.48	0.62	0.78	0.00	0.78
1500	6.63E+03	0.48	0.62	0.78	0.00	0.78
1501	6.63E+03	0.48	0.62	0.78	0.00	0.78
1502	6.63E+03	0.48	0.62	0.78	0.00	0.78
1503	6.63E+03	0.48	0.62	0.78	0.00	0.78
1504	6.63E+03	0.48	0.63	0.78	0.00	0.78
1505	6.63E+03	0.48	0.63	0.78	0.00	0.78
1506	6.63E+03	0.48	0.63	0.78	0.00	0.78
1507	6.63E+03	0.48	0.63	0.78	0.00	0.78
1508	6.63E+03	0.48	0.63	0.78	0.00	0.78
1509	6.63E+03	0.48	0.63	0.78	0.00	0.78
1510	6.63E+03	0.48	0.63	0.78	0.00	0.77
1511	6.63E+03	0.48	0.63	0.78	0.00	0.77
1512	6.63E+03	0.48	0.63	0.78	0.00	0.77

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1513	6.63E+03	0.48	0.63	0.78	0.00	0.77
1514	6.63E+03	0.48	0.63	0.78	0.00	0.77
1515	6.62E+03	0.48	0.63	0.78	0.00	0.77
1516	6.62E+03	0.48	0.63	0.78	0.00	0.77
1517	6.62E+03	0.48	0.63	0.78	0.00	0.77
1518	6.62E+03	0.48	0.63	0.78	0.00	0.77
1519	6.62E+03	0.48	0.63	0.78	0.00	0.77
1520	6.62E+03	0.48	0.63	0.78	0.00	0.77
1521	6.62E+03	0.48	0.63	0.78	0.00	0.77
1522	6.62E+03	0.49	0.63	0.78	0.00	0.77
1523	6.62E+03	0.49	0.63	0.78	0.00	0.77
1524	6.62E+03	0.49	0.63	0.78	0.00	0.77
1525	6.62E+03	0.49	0.63	0.78	0.00	0.77
1526	6.62E+03	0.49	0.63	0.78	0.00	0.77
1527	6.62E+03	0.49	0.63	0.78	0.00	0.77
1528	6.62E+03	0.49	0.63	0.78	0.00	0.77
1529	6.62E+03	0.49	0.63	0.78	0.00	0.77
1530	6.62E+03	0.49	0.63	0.78	0.00	0.77
1531	6.62E+03	0.49	0.63	0.78	0.00	0.77
1532	6.62E+03	0.49	0.63	0.78	0.00	0.77
1533	6.62E+03	0.49	0.63	0.78	0.00	0.77
1534	6.62E+03	0.49	0.63	0.78	0.00	0.77
1535	6.62E+03	0.49	0.63	0.78	0.00	0.77
1536	6.62E+03	0.49	0.63	0.78	0.00	0.77
1537	6.62E+03	0.49	0.63	0.78	0.00	0.77
1538	6.62E+03	0.49	0.63	0.78	0.00	0.77
1539	6.62E+03	0.49	0.63	0.78	0.00	0.77
1540	6.62E+03	0.49	0.63	0.78	0.00	0.77
1541	6.62E+03	0.49	0.63	0.78	0.00	0.77
1542	6.62E+03	0.49	0.63	0.78	0.00	0.77
1543	6.62E+03	0.49	0.63	0.78	0.00	0.77
1544	6.62E+03	0.49	0.63	0.78	0.00	0.77
1545	6.62E+03	0.49	0.63	0.78	0.00	0.77
1546	6.62E+03	0.49	0.64	0.77	0.00	0.77
1547	6.62E+03	0.49	0.64	0.77	0.00	0.77
1548	6.62E+03	0.49	0.64	0.77	0.00	0.77
1549	6.62E+03	0.49	0.64	0.77	0.00	0.77
1550	6.62E+03	0.49	0.64	0.77	0.00	0.77
1551	6.62E+03	0.49	0.64	0.77	0.00	0.77
1552	6.62E+03	0.49	0.64	0.77	0.00	0.77
1553	6.62E+03	0.49	0.64	0.77	0.00	0.77

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1554	6.62E+03	0.49	0.64	0.77	0.00	0.77
1555	6.62E+03	0.49	0.64	0.77	0.00	0.77
1556	6.62E+03	0.49	0.64	0.77	0.00	0.77
1557	6.62E+03	0.49	0.64	0.77	0.00	0.77
1558	6.62E+03	0.49	0.64	0.77	0.00	0.77
1559	6.62E+03	0.49	0.64	0.77	0.00	0.77
1560	6.62E+03	0.49	0.64	0.77	0.00	0.77
1561	6.62E+03	0.49	0.64	0.77	0.00	0.77
1562	6.62E+03	0.49	0.64	0.77	0.00	0.77
1563	6.62E+03	0.49	0.64	0.77	0.00	0.77
1564	6.62E+03	0.49	0.64	0.77	0.00	0.77
1565	6.62E+03	0.50	0.64	0.77	0.00	0.77
1566	6.62E+03	0.50	0.64	0.77	0.00	0.77
1567	6.62E+03	0.50	0.64	0.77	0.00	0.77
1568	6.62E+03	0.50	0.64	0.77	0.00	0.77
1569	6.62E+03	0.50	0.64	0.77	0.00	0.77
1570	6.62E+03	0.50	0.64	0.77	0.00	0.77
1571	6.62E+03	0.50	0.64	0.77	0.00	0.77
1572	6.62E+03	0.50	0.64	0.77	0.00	0.77
1573	6.62E+03	0.50	0.64	0.77	0.00	0.77
1574	6.62E+03	0.50	0.64	0.77	0.00	0.77
1575	6.62E+03	0.50	0.64	0.77	0.00	0.77
1576	6.62E+03	0.50	0.64	0.77	0.00	0.77
1577	6.62E+03	0.50	0.64	0.77	0.00	0.77
1578	6.62E+03	0.50	0.64	0.77	0.00	0.77
1579	6.62E+03	0.50	0.64	0.77	0.00	0.77
1580	6.62E+03	0.50	0.64	0.77	0.00	0.77
1581	6.62E+03	0.50	0.64	0.77	0.00	0.77
1582	6.62E+03	0.50	0.64	0.77	0.00	0.77
1583	6.62E+03	0.50	0.64	0.77	0.00	0.77
1584	6.62E+03	0.50	0.64	0.77	0.00	0.77
1585	6.62E+03	0.50	0.64	0.77	0.00	0.77
1586	6.62E+03	0.50	0.64	0.77	0.00	0.77
1587	6.61E+03	0.50	0.64	0.77	0.00	0.77
1588	6.61E+03	0.50	0.64	0.77	0.00	0.77
1589	6.61E+03	0.50	0.65	0.77	0.00	0.77
1590	6.61E+03	0.50	0.65	0.77	0.00	0.77
1591	6.61E+03	0.50	0.65	0.77	0.00	0.77
1592	6.61E+03	0.50	0.65	0.77	0.00	0.77
1593	6.61E+03	0.50	0.65	0.77	0.00	0.77
1594	6.61E+03	0.50	0.65	0.77	0.00	0.77

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1595	6.61E+03	0.50	0.65	0.77	0.00	0.77
1596	6.61E+03	0.50	0.65	0.77	0.00	0.77
1597	6.61E+03	0.50	0.65	0.77	0.00	0.77
1598	6.61E+03	0.50	0.65	0.77	0.00	0.77
1599	6.61E+03	0.50	0.65	0.77	0.00	0.77
1600	6.61E+03	0.50	0.65	0.77	0.00	0.77
1601	6.61E+03	0.50	0.65	0.77	0.00	0.77
1602	6.61E+03	0.50	0.65	0.77	0.00	0.77
1603	6.61E+03	0.50	0.65	0.77	0.00	0.77
1604	6.61E+03	0.50	0.65	0.77	0.00	0.77
1605	6.61E+03	0.50	0.65	0.77	0.00	0.77
1606	6.61E+03	0.50	0.65	0.77	0.00	0.77
1607	6.61E+03	0.50	0.65	0.77	0.00	0.77
1608	6.61E+03	0.50	0.65	0.77	0.00	0.77
1609	6.61E+03	0.51	0.65	0.77	0.00	0.77
1610	6.61E+03	0.51	0.65	0.77	0.00	0.77
1611	6.61E+03	0.51	0.65	0.77	0.00	0.77
1612	6.61E+03	0.51	0.65	0.77	0.00	0.77
1613	6.61E+03	0.51	0.65	0.77	0.00	0.77
1614	6.61E+03	0.51	0.65	0.77	0.00	0.77
1615	6.61E+03	0.51	0.65	0.77	0.00	0.77
1616	6.61E+03	0.51	0.65	0.77	0.00	0.77
1617	6.61E+03	0.51	0.65	0.77	0.00	0.77
1618	6.61E+03	0.51	0.65	0.77	0.00	0.77
1619	6.61E+03	0.51	0.65	0.77	0.00	0.77
1620	6.61E+03	0.51	0.65	0.77	0.00	0.77
1621	6.61E+03	0.51	0.65	0.77	0.00	0.77
1622	6.61E+03	0.51	0.65	0.77	0.00	0.77
1623	6.61E+03	0.51	0.65	0.77	0.00	0.77
1624	6.61E+03	0.51	0.65	0.77	0.00	0.77
1625	6.61E+03	0.51	0.65	0.77	0.00	0.77
1626	6.61E+03	0.51	0.65	0.77	0.00	0.77
1627	6.61E+03	0.51	0.65	0.77	0.00	0.77
1628	6.61E+03	0.51	0.65	0.77	0.00	0.77
1629	6.61E+03	0.51	0.65	0.77	0.00	0.77
1630	6.61E+03	0.51	0.65	0.77	0.00	0.77
1631	6.61E+03	0.51	0.65	0.77	0.00	0.77
1632	6.61E+03	0.51	0.65	0.77	0.00	0.77
1633	6.61E+03	0.51	0.65	0.77	0.00	0.77
1634	6.61E+03	0.51	0.66	0.77	0.00	0.77
1635	6.61E+03	0.51	0.66	0.77	0.00	0.77

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1636	6.61E+03	0.51	0.66	0.77	0.00	0.77
1637	6.61E+03	0.51	0.66	0.77	0.00	0.77
1638	6.61E+03	0.51	0.66	0.77	0.00	0.77
1639	6.61E+03	0.51	0.66	0.77	0.00	0.77
1640	6.61E+03	0.51	0.66	0.77	0.00	0.77
1641	6.61E+03	0.51	0.66	0.77	0.00	0.77
1642	6.61E+03	0.51	0.66	0.77	0.00	0.77
1643	6.61E+03	0.51	0.66	0.77	0.00	0.77
1644	6.61E+03	0.51	0.66	0.77	0.00	0.77
1645	6.61E+03	0.51	0.66	0.77	0.00	0.77
1646	6.61E+03	0.51	0.66	0.77	0.00	0.77
1647	6.61E+03	0.51	0.66	0.77	0.00	0.77
1648	6.61E+03	0.51	0.66	0.77	0.00	0.77
1649	6.61E+03	0.51	0.66	0.77	0.00	0.77
1650	6.61E+03	0.51	0.66	0.77	0.00	0.77
1651	6.61E+03	0.51	0.66	0.77	0.00	0.77
1652	6.61E+03	0.51	0.66	0.77	0.00	0.77
1653	6.61E+03	0.51	0.66	0.77	0.00	0.77
1654	6.61E+03	0.51	0.66	0.77	0.00	0.77
1655	6.61E+03	0.52	0.66	0.77	0.00	0.77
1656	6.61E+03	0.52	0.66	0.77	0.00	0.77
1657	6.61E+03	0.52	0.66	0.77	0.00	0.77
1658	6.61E+03	0.52	0.66	0.77	0.00	0.77
1659	6.61E+03	0.52	0.66	0.77	0.00	0.77
1660	6.61E+03	0.52	0.66	0.77	0.00	0.77
1661	6.60E+03	0.52	0.66	0.77	0.00	0.77
1662	6.60E+03	0.52	0.66	0.77	0.00	0.77
1663	6.60E+03	0.52	0.66	0.77	0.00	0.76
1664	6.60E+03	0.52	0.66	0.77	0.00	0.76
1665	6.60E+03	0.52	0.66	0.77	0.00	0.76
1666	6.60E+03	0.52	0.66	0.77	0.00	0.76
1667	6.60E+03	0.52	0.66	0.77	0.00	0.76
1668	6.60E+03	0.52	0.66	0.77	0.00	0.76
1669	6.60E+03	0.52	0.66	0.77	0.00	0.76
1670	6.60E+03	0.52	0.66	0.77	0.00	0.76
1671	6.60E+03	0.52	0.66	0.77	0.00	0.76
1672	6.60E+03	0.52	0.66	0.77	0.00	0.76
1673	6.60E+03	0.52	0.66	0.77	0.00	0.76
1674	6.60E+03	0.52	0.66	0.77	0.00	0.76
1675	6.60E+03	0.52	0.66	0.77	0.00	0.76
1676	6.60E+03	0.52	0.66	0.77	0.00	0.76

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1677	6.60E+03	0.52	0.66	0.77	0.00	0.76
1678	6.60E+03	0.52	0.66	0.77	0.00	0.76
1679	6.60E+03	0.52	0.66	0.77	0.00	0.76
1680	6.60E+03	0.52	0.66	0.77	0.00	0.76
1681	6.60E+03	0.52	0.66	0.77	0.00	0.76
1682	6.60E+03	0.52	0.67	0.77	0.00	0.76
1683	6.60E+03	0.52	0.67	0.77	0.00	0.76
1684	6.60E+03	0.52	0.67	0.77	0.00	0.76
1685	6.60E+03	0.52	0.67	0.77	0.00	0.76
1686	6.60E+03	0.52	0.67	0.77	0.00	0.76
1687	6.60E+03	0.52	0.67	0.77	0.00	0.76
1688	6.60E+03	0.52	0.67	0.77	0.00	0.76
1689	6.60E+03	0.52	0.67	0.77	0.00	0.76
1690	6.60E+03	0.52	0.67	0.77	0.00	0.76
1691	6.60E+03	0.52	0.67	0.77	0.00	0.76
1692	6.60E+03	0.52	0.67	0.76	0.00	0.76
1693	6.60E+03	0.52	0.67	0.76	0.00	0.76
1694	6.60E+03	0.52	0.67	0.76	0.00	0.76
1695	6.60E+03	0.52	0.67	0.76	0.00	0.76
1696	6.60E+03	0.52	0.67	0.76	0.00	0.76
1697	6.60E+03	0.52	0.67	0.76	0.00	0.76
1698	6.60E+03	0.52	0.67	0.76	0.00	0.76
1699	6.60E+03	0.52	0.67	0.76	0.00	0.76
1700	6.60E+03	0.52	0.67	0.76	0.00	0.76
1701	6.60E+03	0.52	0.67	0.76	0.00	0.76
1702	6.60E+03	0.53	0.67	0.76	0.00	0.76
1703	6.60E+03	0.53	0.67	0.76	0.00	0.76
1704	6.60E+03	0.53	0.67	0.76	0.00	0.76
1705	6.60E+03	0.53	0.67	0.76	0.00	0.76
1706	6.60E+03	0.53	0.67	0.76	0.00	0.76
1707	6.60E+03	0.53	0.67	0.76	0.00	0.76
1708	6.60E+03	0.53	0.67	0.76	0.00	0.76
1709	6.60E+03	0.53	0.67	0.76	0.00	0.76
1710	6.60E+03	0.53	0.67	0.76	0.00	0.76
1711	6.60E+03	0.53	0.67	0.76	0.00	0.76
1712	6.60E+03	0.53	0.67	0.76	0.00	0.76
1713	6.60E+03	0.53	0.67	0.76	0.00	0.76
1714	6.60E+03	0.53	0.67	0.76	0.00	0.76
1715	6.60E+03	0.53	0.67	0.76	0.00	0.76
1716	6.60E+03	0.53	0.67	0.76	0.00	0.76
1717	6.60E+03	0.53	0.67	0.76	0.00	0.76

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1718	6.60E+03	0.53	0.67	0.76	0.00	0.76
1719	6.60E+03	0.53	0.67	0.76	0.00	0.76
1720	6.60E+03	0.53	0.67	0.76	0.00	0.76
1721	6.60E+03	0.53	0.67	0.76	0.00	0.76
1722	6.60E+03	0.53	0.67	0.76	0.00	0.76
1723	6.60E+03	0.53	0.67	0.76	0.00	0.76
1724	6.60E+03	0.53	0.67	0.76	0.00	0.76
1725	6.60E+03	0.53	0.67	0.76	0.00	0.76
1726	6.60E+03	0.53	0.67	0.76	0.00	0.76
1727	6.60E+03	0.53	0.67	0.76	0.00	0.76
1728	6.60E+03	0.53	0.67	0.76	0.00	0.76
1729	6.60E+03	0.53	0.67	0.76	0.00	0.76
1730	6.60E+03	0.53	0.67	0.76	0.00	0.76
1731	6.60E+03	0.53	0.67	0.76	0.00	0.76
1732	6.60E+03	0.53	0.67	0.76	0.00	0.76
1733	6.60E+03	0.53	0.68	0.76	0.00	0.76
1734	6.60E+03	0.53	0.68	0.76	0.00	0.76
1735	6.60E+03	0.53	0.68	0.76	0.00	0.76
1736	6.59E+03	0.53	0.68	0.76	0.00	0.76
1737	6.59E+03	0.53	0.68	0.76	0.00	0.76
1738	6.59E+03	0.53	0.68	0.76	0.00	0.76
1739	6.59E+03	0.53	0.68	0.76	0.00	0.76
1740	6.59E+03	0.53	0.68	0.76	0.00	0.76
1741	6.59E+03	0.53	0.68	0.76	0.00	0.76
1742	6.59E+03	0.53	0.68	0.76	0.00	0.76
1743	6.59E+03	0.53	0.68	0.76	0.00	0.76
1744	6.59E+03	0.53	0.68	0.76	0.00	0.76
1745	6.59E+03	0.53	0.68	0.76	0.00	0.76
1746	6.59E+03	0.53	0.68	0.76	0.00	0.76
1747	6.59E+03	0.53	0.68	0.76	0.00	0.76
1748	6.59E+03	0.53	0.68	0.76	0.00	0.76
1749	6.59E+03	0.53	0.68	0.76	0.00	0.76
1750	6.59E+03	0.54	0.68	0.76	0.00	0.76
1751	6.59E+03	0.54	0.68	0.76	0.00	0.76
1752	6.59E+03	0.54	0.68	0.76	0.00	0.76
1753	6.59E+03	0.54	0.68	0.76	0.00	0.76
1754	6.59E+03	0.54	0.68	0.76	0.00	0.76
1755	6.59E+03	0.54	0.68	0.76	0.00	0.76
1756	6.59E+03	0.54	0.68	0.76	0.00	0.76
1757	6.59E+03	0.54	0.68	0.76	0.00	0.76
1758	6.59E+03	0.54	0.68	0.76	0.00	0.76

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1759	6.59E+03	0.54	0.68	0.76	0.00	0.76
1760	6.59E+03	0.54	0.68	0.76	0.00	0.76
1761	6.59E+03	0.54	0.68	0.76	0.00	0.76
1762	6.59E+03	0.54	0.68	0.76	0.00	0.76
1763	6.59E+03	0.54	0.68	0.76	0.00	0.76
1764	6.59E+03	0.54	0.68	0.76	0.00	0.76
1765	6.59E+03	0.54	0.68	0.76	0.00	0.76
1766	6.59E+03	0.54	0.68	0.76	0.00	0.76
1767	6.59E+03	0.54	0.68	0.76	0.00	0.76
1768	6.59E+03	0.54	0.68	0.76	0.00	0.76
1769	6.59E+03	0.54	0.68	0.76	0.00	0.76
1770	6.59E+03	0.54	0.68	0.76	0.00	0.76
1771	6.59E+03	0.54	0.68	0.76	0.00	0.76
1772	6.59E+03	0.54	0.68	0.76	0.00	0.76
1773	6.59E+03	0.54	0.68	0.76	0.00	0.76
1774	6.59E+03	0.54	0.68	0.76	0.00	0.76
1775	6.59E+03	0.54	0.68	0.76	0.00	0.76
1776	6.59E+03	0.54	0.68	0.76	0.00	0.76
1777	6.59E+03	0.54	0.68	0.76	0.00	0.76
1778	6.59E+03	0.54	0.68	0.76	0.00	0.76
1779	6.59E+03	0.54	0.68	0.76	0.00	0.76
1780	6.59E+03	0.54	0.68	0.76	0.00	0.76
1781	6.59E+03	0.54	0.68	0.76	0.00	0.76
1782	6.59E+03	0.54	0.68	0.76	0.00	0.76
1783	6.59E+03	0.54	0.68	0.76	0.00	0.76
1784	6.59E+03	0.54	0.68	0.76	0.00	0.76
1785	6.59E+03	0.54	0.68	0.76	0.00	0.76
1786	6.59E+03	0.54	0.68	0.76	0.00	0.76
1787	6.59E+03	0.54	0.69	0.76	0.00	0.76
1788	6.59E+03	0.54	0.69	0.76	0.00	0.76
1789	6.59E+03	0.54	0.69	0.76	0.00	0.76
1790	6.59E+03	0.54	0.69	0.76	0.00	0.76
1791	6.59E+03	0.54	0.69	0.76	0.00	0.76
1792	6.59E+03	0.54	0.69	0.76	0.00	0.76
1793	6.59E+03	0.54	0.69	0.76	0.00	0.76
1794	6.59E+03	0.54	0.69	0.76	0.00	0.76
1795	6.59E+03	0.54	0.69	0.76	0.00	0.76
1796	6.59E+03	0.54	0.69	0.76	0.00	0.76
1797	6.59E+03	0.54	0.69	0.76	0.00	0.76
1798	6.59E+03	0.54	0.69	0.76	0.00	0.76
1799	6.59E+03	0.54	0.69	0.76	0.00	0.76

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1800	6.59E+03	0.55	0.69	0.76	0.00	0.76
1801	6.59E+03	0.55	0.69	0.76	0.00	0.76
1802	6.59E+03	0.55	0.69	0.76	0.00	0.76
1803	6.59E+03	0.55	0.69	0.76	0.00	0.76
1804	6.59E+03	0.55	0.69	0.76	0.00	0.76
1805	6.59E+03	0.55	0.69	0.76	0.00	0.76
1806	6.59E+03	0.55	0.69	0.76	0.00	0.76
1807	6.59E+03	0.55	0.69	0.76	0.00	0.76
1808	6.59E+03	0.55	0.69	0.76	0.00	0.76
1809	6.59E+03	0.55	0.69	0.76	0.00	0.76
1810	6.59E+03	0.55	0.69	0.76	0.00	0.75
1811	6.59E+03	0.55	0.69	0.76	0.00	0.75
1812	6.59E+03	0.55	0.69	0.72	0.00	0.74
1813	6.58E+03	0.55	0.69	0.70	0.00	0.73
1814	6.57E+03	0.55	0.69	0.69	0.00	0.72
1815	6.55E+03	0.55	0.69	0.68	0.00	0.72
1816	6.54E+03	0.55	0.69	0.67	0.00	0.71
1817	6.52E+03	0.55	0.69	0.67	0.00	0.70
1818	6.50E+03	0.55	0.69	0.66	0.00	0.70
1819	6.48E+03	0.55	0.69	0.66	0.00	0.70
1820	6.47E+03	0.55	0.69	0.67	0.00	0.69
1821	6.45E+03	0.55	0.69	0.68	0.00	0.69
1822	6.45E+03	0.55	0.69	0.68	0.00	0.69
1823	6.44E+03	0.55	0.69	0.69	0.00	0.69
1824	6.44E+03	0.55	0.69	0.69	0.00	0.69
1825	6.44E+03	0.55	0.69	0.69	0.00	0.69
1826	6.44E+03	0.55	0.69	0.69	0.00	0.69
1827	6.43E+03	0.55	0.69	0.69	0.00	0.69
1828	6.43E+03	0.55	0.69	0.68	0.00	0.69
1829	6.43E+03	0.55	0.69	0.68	0.00	0.69
1830	6.43E+03	0.55	0.69	0.68	0.00	0.68
1831	6.43E+03	0.55	0.69	0.68	0.00	0.68
1832	6.43E+03	0.55	0.69	0.68	0.00	0.68
1833	6.42E+03	0.55	0.69	0.68	0.00	0.68
1834	6.42E+03	0.55	0.69	0.68	0.00	0.68
1835	6.42E+03	0.55	0.69	0.68	0.00	0.68
1836	6.42E+03	0.55	0.69	0.68	0.00	0.68
1837	6.42E+03	0.55	0.69	0.68	0.00	0.68
1838	6.42E+03	0.55	0.69	0.68	0.00	0.68
1839	6.41E+03	0.55	0.69	0.68	0.00	0.68
1840	6.41E+03	0.55	0.69	0.68	0.00	0.68

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1841	6.41E+03	0.55	0.69	0.68	0.00	0.68
1842	6.41E+03	0.55	0.69	0.67	0.00	0.68
1843	6.41E+03	0.55	0.69	0.67	0.00	0.68
1844	6.41E+03	0.55	0.69	0.67	0.00	0.67
1845	6.40E+03	0.55	0.69	0.67	0.00	0.67
1846	6.40E+03	0.55	0.69	0.67	0.00	0.67
1847	6.40E+03	0.55	0.69	0.67	0.00	0.67
1848	6.40E+03	0.55	0.69	0.67	0.00	0.67
1849	6.40E+03	0.55	0.69	0.67	0.00	0.67
1850	6.40E+03	0.55	0.69	0.67	0.00	0.67
1851	6.39E+03	0.55	0.69	0.67	0.00	0.67
1852	6.39E+03	0.55	0.69	0.67	0.00	0.67
1853	6.39E+03	0.55	0.69	0.67	0.00	0.67
1854	6.39E+03	0.55	0.69	0.67	0.00	0.67
1855	6.39E+03	0.55	0.69	0.67	0.00	0.67
1856	6.39E+03	0.55	0.69	0.66	0.00	0.67
1857	6.39E+03	0.55	0.69	0.66	0.00	0.67
1858	6.38E+03	0.55	0.69	0.66	0.00	0.66
1859	6.38E+03	0.55	0.69	0.66	0.00	0.66
1860	6.38E+03	0.55	0.69	0.66	0.00	0.66
1861	6.38E+03	0.55	0.69	0.66	0.00	0.66
1862	6.38E+03	0.55	0.69	0.66	0.00	0.66
1863	6.38E+03	0.56	0.69	0.66	0.00	0.66
1864	6.37E+03	0.56	0.69	0.66	0.00	0.66
1865	6.37E+03	0.56	0.69	0.66	0.00	0.66
1866	6.37E+03	0.56	0.69	0.66	0.00	0.66
1867	6.37E+03	0.56	0.69	0.66	0.00	0.66
1868	6.37E+03	0.56	0.69	0.66	0.00	0.66
1869	6.37E+03	0.56	0.69	0.66	0.00	0.66
1870	6.37E+03	0.56	0.69	0.66	0.00	0.66
1871	6.36E+03	0.56	0.69	0.65	0.00	0.66
1872	6.36E+03	0.56	0.69	0.65	0.00	0.66
1873	6.36E+03	0.56	0.69	0.65	0.00	0.66
1874	6.36E+03	0.56	0.69	0.65	0.00	0.66
1875	6.36E+03	0.56	0.69	0.66	0.00	0.65
1876	6.36E+03	0.56	0.69	0.66	0.00	0.65
1877	6.36E+03	0.56	0.69	0.66	0.00	0.65
1878	6.36E+03	0.56	0.69	0.66	0.00	0.65
1879	6.36E+03	0.56	0.69	0.65	0.00	0.65
1880	6.35E+03	0.56	0.70	0.65	0.00	0.65
1881	6.35E+03	0.56	0.70	0.65	0.00	0.65

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1882	6.35E+03	0.56	0.70	0.65	0.00	0.65
1883	6.35E+03	0.56	0.70	0.65	0.00	0.65
1884	6.35E+03	0.56	0.70	0.65	0.00	0.65
1885	6.35E+03	0.56	0.70	0.65	0.00	0.65
1886	6.35E+03	0.56	0.70	0.65	0.00	0.65
1887	6.35E+03	0.56	0.70	0.65	0.00	0.65
1888	6.35E+03	0.56	0.70	0.65	0.00	0.65
1889	6.35E+03	0.56	0.70	0.65	0.00	0.65
1890	6.35E+03	0.56	0.70	0.65	0.00	0.65
1891	6.35E+03	0.56	0.70	0.65	0.00	0.65
1892	6.35E+03	0.56	0.70	0.65	0.00	0.65
1893	6.35E+03	0.56	0.70	0.65	0.00	0.65
1894	6.35E+03	0.56	0.70	0.65	0.00	0.65
1895	6.35E+03	0.56	0.70	0.65	0.00	0.65
1896	6.35E+03	0.56	0.70	0.65	0.00	0.65
1897	6.35E+03	0.56	0.70	0.65	0.00	0.65
1898	6.35E+03	0.56	0.70	0.65	0.00	0.65
1899	6.35E+03	0.56	0.70	0.65	0.00	0.65
1900	6.35E+03	0.56	0.70	0.65	0.00	0.65
1901	6.35E+03	0.56	0.70	0.65	0.00	0.65
1902	6.34E+03	0.56	0.70	0.65	0.00	0.65
1903	6.34E+03	0.56	0.70	0.65	0.00	0.65
1904	6.34E+03	0.56	0.70	0.65	0.00	0.65
1905	6.34E+03	0.56	0.70	0.65	0.00	0.65
1906	6.34E+03	0.56	0.70	0.65	0.00	0.65
1907	6.34E+03	0.56	0.70	0.65	0.00	0.65
1908	6.34E+03	0.56	0.70	0.65	0.00	0.65
1909	6.34E+03	0.56	0.70	0.65	0.00	0.65
1910	6.34E+03	0.56	0.70	0.65	0.00	0.65
1911	6.34E+03	0.56	0.70	0.65	0.00	0.65
1912	6.34E+03	0.56	0.70	0.65	0.00	0.65
1913	6.34E+03	0.56	0.70	0.65	0.00	0.65
1914	6.34E+03	0.56	0.70	0.65	0.00	0.65
1915	6.34E+03	0.56	0.70	0.65	0.00	0.65
1916	6.34E+03	0.56	0.70	0.65	0.00	0.65
1917	6.34E+03	0.56	0.70	0.65	0.00	0.65
1918	6.34E+03	0.56	0.70	0.65	0.00	0.65
1919	6.34E+03	0.56	0.70	0.65	0.00	0.65
1920	6.34E+03	0.56	0.70	0.65	0.00	0.65
1921	6.34E+03	0.56	0.70	0.65	0.00	0.65
1922	6.34E+03	0.56	0.70	0.65	0.00	0.65

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1923	6.34E+03	0.56	0.70	0.65	0.00	0.65
1924	6.34E+03	0.56	0.70	0.65	0.00	0.65
1925	6.33E+03	0.56	0.70	0.65	0.00	0.64
1926	6.33E+03	0.56	0.70	0.65	0.00	0.64
1927	6.33E+03	0.56	0.70	0.65	0.00	0.64
1928	6.33E+03	0.56	0.70	0.64	0.00	0.64
1929	6.33E+03	0.56	0.70	0.64	0.00	0.64
1930	6.33E+03	0.56	0.70	0.64	0.00	0.64
1931	6.33E+03	0.56	0.70	0.64	0.00	0.64
1932	6.33E+03	0.56	0.70	0.64	0.00	0.64
1933	6.33E+03	0.56	0.70	0.64	0.00	0.64
1934	6.33E+03	0.56	0.70	0.64	0.00	0.64
1935	6.33E+03	0.56	0.70	0.64	0.00	0.64
1936	6.32E+03	0.56	0.70	0.64	0.00	0.64
1937	6.32E+03	0.56	0.70	0.64	0.00	0.64
1938	6.32E+03	0.56	0.70	0.64	0.00	0.64
1939	6.32E+03	0.56	0.70	0.63	0.00	0.64
1940	6.32E+03	0.57	0.70	0.63	0.00	0.64
1941	6.32E+03	0.57	0.70	0.63	0.00	0.63
1942	6.31E+03	0.57	0.70	0.63	0.00	0.63
1943	6.31E+03	0.57	0.70	0.63	0.00	0.63
1944	6.31E+03	0.57	0.70	0.63	0.00	0.63
1945	6.31E+03	0.57	0.70	0.63	0.00	0.63
1946	6.31E+03	0.57	0.70	0.63	0.00	0.63
1947	6.31E+03	0.57	0.70	0.63	0.00	0.63
1948	6.31E+03	0.57	0.70	0.63	0.00	0.63
1949	6.30E+03	0.57	0.70	0.63	0.00	0.63
1950	6.30E+03	0.57	0.70	0.63	0.00	0.63
1951	6.30E+03	0.57	0.70	0.63	0.00	0.63
1952	6.30E+03	0.57	0.70	0.63	0.00	0.63
1953	6.30E+03	0.57	0.70	0.62	0.00	0.63
1954	6.30E+03	0.57	0.70	0.62	0.00	0.63
1955	6.29E+03	0.57	0.70	0.62	0.00	0.62
1956	6.29E+03	0.57	0.70	0.62	0.00	0.62
1957	6.29E+03	0.57	0.70	0.62	0.00	0.62
1958	6.29E+03	0.57	0.70	0.62	0.00	0.62
1959	6.29E+03	0.57	0.70	0.62	0.00	0.62
1960	6.29E+03	0.57	0.70	0.62	0.00	0.62
1961	6.29E+03	0.57	0.70	0.62	0.00	0.62
1962	6.28E+03	0.57	0.70	0.62	0.00	0.62
1963	6.28E+03	0.57	0.70	0.62	0.00	0.62

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1964	6.28E+03	0.57	0.70	0.62	0.00	0.62
1965	6.28E+03	0.57	0.70	0.62	0.00	0.62
1966	6.28E+03	0.57	0.70	0.62	0.00	0.62
1967	6.28E+03	0.57	0.70	0.62	0.00	0.62
1968	6.27E+03	0.57	0.70	0.62	0.00	0.62
1969	6.27E+03	0.57	0.70	0.61	0.00	0.62
1970	6.27E+03	0.57	0.70	0.61	0.00	0.61
1971	6.27E+03	0.57	0.70	0.61	0.00	0.61
1972	6.27E+03	0.57	0.70	0.61	0.00	0.61
1973	6.27E+03	0.57	0.70	0.61	0.00	0.61
1974	6.27E+03	0.57	0.70	0.61	0.00	0.61
1975	6.26E+03	0.57	0.70	0.61	0.00	0.61
1976	6.26E+03	0.57	0.70	0.61	0.00	0.61
1977	6.26E+03	0.57	0.70	0.61	0.00	0.61
1978	6.26E+03	0.57	0.70	0.61	0.00	0.61
1979	6.26E+03	0.57	0.70	0.61	0.00	0.61
1980	6.26E+03	0.57	0.70	0.61	0.00	0.61
1981	6.26E+03	0.57	0.70	0.61	0.00	0.61
1982	6.25E+03	0.57	0.70	0.61	0.00	0.61
1983	6.25E+03	0.57	0.70	0.61	0.00	0.61
1984	6.25E+03	0.57	0.70	0.61	0.00	0.61
1985	6.25E+03	0.57	0.70	0.60	0.00	0.61
1986	6.25E+03	0.57	0.70	0.60	0.00	0.61
1987	6.25E+03	0.57	0.70	0.61	0.00	0.61
1988	6.25E+03	0.57	0.70	0.61	0.00	0.61
1989	6.25E+03	0.57	0.70	0.61	0.00	0.61
1990	6.24E+03	0.57	0.70	0.61	0.00	0.61
1991	6.24E+03	0.57	0.70	0.61	0.00	0.61
1992	6.24E+03	0.57	0.70	0.61	0.00	0.61
1993	6.24E+03	0.57	0.70	0.61	0.00	0.61
1994	6.24E+03	0.57	0.70	0.61	0.00	0.61
1995	6.24E+03	0.57	0.70	0.61	0.00	0.61
1996	6.24E+03	0.57	0.70	0.61	0.00	0.60
1997	6.24E+03	0.57	0.70	0.61	0.00	0.60
1998	6.24E+03	0.57	0.70	0.61	0.00	0.60
1999	6.24E+03	0.57	0.70	0.61	0.00	0.60
2000	6.24E+03	0.57	0.70	0.61	0.00	0.60
2001	6.24E+03	0.57	0.70	0.61	0.00	0.60
2002	6.24E+03	0.57	0.70	0.61	0.00	0.60
2003	6.24E+03	0.57	0.70	0.61	0.00	0.60
2004	6.24E+03	0.57	0.70	0.61	0.00	0.60

Attachment 1

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
2005	6.24E+03	0.57	0.70	0.61	0.00	0.60
2006	6.24E+03	0.57	0.70	0.61	0.00	0.60
2007	6.24E+03	0.57	0.70	0.61	0.00	0.60
2008	6.24E+03	0.57	0.70	0.61	0.00	0.60
2009	6.24E+03	0.57	0.70	0.61	0.00	0.60
2010	6.24E+03	0.57	0.70	0.60	0.00	0.60
2011	6.24E+03	0.57	0.70	0.60	0.00	0.60
2012	6.24E+03	0.57	0.70	0.60	0.00	0.60
2013	6.24E+03	0.57	0.70	0.60	0.00	0.60
2014	6.24E+03	0.57	0.70	0.60	0.00	0.60
2015	6.24E+03	0.57	0.70	0.60	0.00	0.60
2016	6.24E+03	0.57	0.70	0.60	0.00	0.60
2017	6.24E+03	0.57	0.70	0.60	0.00	0.60
2018	6.24E+03	0.57	0.70	0.60	0.00	0.60
2019	6.24E+03	0.57	0.70	0.60	0.00	0.60
2020	6.24E+03	0.57	0.70	0.60	0.00	0.60
2021	6.24E+03	0.57	0.70	0.60	0.00	0.60
2022	6.24E+03	0.57	0.70	0.60	0.00	0.60
2023	6.24E+03	0.57	0.70	0.60	0.00	0.60

Attachment 1

	R	S	T	U	V	W
1	Steel Specific Heat (1 NUREG/CR-6150)					
2						
3	671 K,					
4	$3.71 T^{0.719}$					
5						
6						
7						
8	Conductivity (1 NUREG/CR-7024)					
9						
10	$5 T^2 + 7.67 \times 10^{-9} T^3$					
11						
12						
13						
14						
15						
16						
17						
18						
19		x=AR24		x=AT24		x=AX24
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
23	463.536	0.0584	94.03	0.0682	9.5	0.0682
24	463.536	0.0585	94.03	0.0683	9.5	0.0682
25	463.536	0.0586	94.03	0.0683	9.5	0.0682
26	463.536	0.0586	94.03	0.0683	9.5	0.0682
27	463.536	0.0587	94.03	0.0683	9.5	0.0682
28	463.536	0.0587	94.03	0.0684	9.5	0.0682
29	463.536	0.0588	94.03	0.0684	9.5	0.0682
30	463.536	0.0588	94.03	0.0684	9.5	0.0682
31	463.536	0.0588	94.03	0.0685	9.5	0.0682
32	463.536	0.0589	94.03	0.0685	9.5	0.0682
33	463.536	0.0589	94.03	0.0685	9.5	0.0682
34	463.536	0.0590	94.03	0.0686	9.5	0.0682
35	463.536	0.0590	94.03	0.0686	9.5	0.0682
36	463.536	0.0591	94.03	0.0686	9.5	0.0682

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
37	463.536	0.0591	94.03	0.0686	9.5	0.0682
38	463.536	0.0592	94.03	0.0687	9.5	0.0682
39	463.536	0.0592	94.03	0.0687	9.5	0.0682
40	463.536	0.0593	94.03	0.0687	9.5	0.0682
41	463.536	0.0593	94.03	0.0688	9.5	0.0682
42	463.536	0.0594	94.03	0.0688	9.5	0.0682
43	463.536	0.0594	94.03	0.0688	9.5	0.0682
44	463.536	0.0595	94.03	0.0689	9.5	0.0682
45	463.536	0.0595	94.03	0.0689	9.5	0.0682
46	463.536	0.0595	94.03	0.0689	9.5	0.0682
47	463.536	0.0596	94.03	0.0689	9.5	0.0682
48	463.536	0.0596	94.03	0.0690	9.5	0.0682
49	463.536	0.0597	94.03	0.0690	9.5	0.0682
50	463.536	0.0597	94.03	0.0690	9.5	0.0682
51	463.536	0.0598	94.03	0.0691	9.5	0.0682
52	463.536	0.0598	94.03	0.0691	9.5	0.0682
53	463.536	0.0599	94.03	0.0691	9.5	0.0682
54	463.536	0.0599	94.03	0.0692	9.5	0.0682
55	463.536	0.0599	94.03	0.0692	9.5	0.0682
56	463.536	0.0600	94.03	0.0692	9.5	0.0682
57	463.536	0.0600	94.03	0.0692	9.5	0.0682
58	463.536	0.0601	94.03	0.0693	9.5	0.0682
59	463.536	0.0601	94.03	0.0693	9.5	0.0682
60	463.536	0.0601	94.03	0.0693	9.5	0.0682
61	463.536	0.0602	94.03	0.0694	9.5	0.0682
62	463.536	0.0602	94.03	0.0694	9.5	0.0682
63	463.536	0.0603	94.03	0.0694	9.5	0.0682
64	463.536	0.0603	94.03	0.0694	9.5	0.0682
65	463.536	0.0603	94.03	0.0695	9.5	0.0682
66	463.536	0.0604	94.03	0.0695	9.5	0.0682
67	463.536	0.0604	94.03	0.0695	9.5	0.0682
68	463.536	0.0605	94.03	0.0696	9.5	0.0682
69	463.536	0.0605	94.03	0.0696	9.5	0.0682
70	463.536	0.0605	94.03	0.0696	9.5	0.0682
71	463.536	0.0606	94.03	0.0696	9.5	0.0682
72	463.536	0.0606	94.03	0.0697	9.5	0.0682
73	463.536	0.0607	94.03	0.0697	9.5	0.0682
74	463.536	0.0607	94.03	0.0697	9.5	0.0682
75	463.536	0.0607	94.03	0.0697	9.5	0.0682
76	463.536	0.0608	94.03	0.0698	9.5	0.0682
77	463.536	0.0608	94.03	0.0698	9.5	0.0682

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
78	463.536	0.0608	94.03	0.0698	9.5	0.0682
79	463.536	0.0609	94.03	0.0699	9.5	0.0682
80	463.536	0.0609	94.03	0.0699	9.5	0.0682
81	463.536	0.0610	94.03	0.0699	9.5	0.0683
82	463.536	0.0610	94.03	0.0699	9.5	0.0683
83	463.536	0.0610	94.03	0.0700	9.5	0.0683
84	463.536	0.0611	94.03	0.0700	9.5	0.0683
85	463.536	0.0611	94.03	0.0700	9.5	0.0683
86	463.536	0.0611	94.03	0.0701	9.5	0.0683
87	463.536	0.0612	94.03	0.0701	9.5	0.0683
88	463.536	0.0612	94.03	0.0701	9.5	0.0683
89	463.536	0.0612	94.03	0.0701	9.5	0.0683
90	463.536	0.0613	94.03	0.0702	9.5	0.0683
91	463.536	0.0613	94.03	0.0702	9.5	0.0683
92	463.536	0.0613	94.03	0.0702	9.5	0.0683
93	463.536	0.0614	94.03	0.0702	9.5	0.0683
94	463.536	0.0614	94.03	0.0703	9.5	0.0683
95	463.536	0.0614	94.03	0.0703	9.5	0.0683
96	463.536	0.0615	94.03	0.0703	9.5	0.0683
97	463.536	0.0615	94.03	0.0703	9.5	0.0683
98	463.536	0.0615	94.03	0.0704	9.5	0.0683
99	463.536	0.0616	94.03	0.0704	9.5	0.0683
100	463.536	0.0616	94.03	0.0704	9.5	0.0683
101	463.536	0.0616	94.03	0.0705	9.5	0.0683
102	463.536	0.0617	94.03	0.0705	9.5	0.0683
103	463.536	0.0617	94.03	0.0705	9.5	0.0683
104	463.536	0.0617	94.03	0.0705	9.5	0.0683
105	463.536	0.0618	94.03	0.0706	9.5	0.0683
106	463.536	0.0618	94.03	0.0706	9.5	0.0683
107	463.536	0.0618	94.03	0.0706	9.5	0.0683
108	463.536	0.0619	94.03	0.0706	9.5	0.0683
109	463.536	0.0619	94.03	0.0707	9.5	0.0683
110	463.536	0.0619	94.03	0.0707	9.5	0.0683
111	463.536	0.0620	94.03	0.0707	9.5	0.0683
112	463.536	0.0620	94.03	0.0707	9.5	0.0683
113	463.536	0.0620	94.03	0.0708	9.5	0.0683
114	463.536	0.0621	94.03	0.0708	9.5	0.0683
115	463.536	0.0621	94.03	0.0708	9.5	0.0683
116	463.536	0.0621	94.03	0.0709	9.5	0.0683
117	463.536	0.0621	94.03	0.0709	9.5	0.0683
118	463.536	0.0622	94.03	0.0709	9.5	0.0683

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
119	463.536	0.0622	94.03	0.0709	9.5	0.0683
120	463.536	0.0622	94.03	0.0710	9.5	0.0683
121	463.536	0.0623	94.03	0.0710	9.5	0.0683
122	463.536	0.0623	94.03	0.0710	9.5	0.0683
123	463.536	0.0623	94.03	0.0710	9.5	0.0683
124	463.536	0.0624	94.03	0.0711	9.5	0.0683
125	463.536	0.0624	94.03	0.0711	9.5	0.0683
126	463.536	0.0624	94.03	0.0711	9.5	0.0683
127	463.536	0.0624	94.03	0.0711	9.5	0.0683
128	463.536	0.0625	94.03	0.0712	9.5	0.0683
129	463.536	0.0625	94.03	0.0712	9.5	0.0683
130	463.536	0.0625	94.03	0.0712	9.5	0.0683
131	463.536	0.0626	94.03	0.0712	9.5	0.0683
132	463.536	0.0626	94.03	0.0713	9.5	0.0683
133	463.536	0.0626	94.03	0.0713	9.5	0.0683
134	463.536	0.0626	94.03	0.0713	9.5	0.0683
135	463.536	0.0627	94.03	0.0713	9.5	0.0683
136	463.536	0.0627	94.03	0.0714	9.5	0.0683
137	463.536	0.0627	94.03	0.0714	9.5	0.0683
138	463.536	0.0627	94.03	0.0714	9.5	0.0683
139	463.536	0.0628	94.03	0.0714	9.5	0.0683
140	463.536	0.0628	94.03	0.0715	9.5	0.0683
141	463.536	0.0628	94.03	0.0715	9.5	0.0683
142	463.536	0.0629	94.03	0.0715	9.5	0.0683
143	463.536	0.0629	94.03	0.0715	9.5	0.0683
144	463.536	0.0629	94.03	0.0716	9.5	0.0683
145	463.536	0.0629	94.03	0.0716	9.5	0.0683
146	463.536	0.0630	94.03	0.0716	9.5	0.0683
147	463.536	0.0630	94.03	0.0716	9.5	0.0683
148	463.536	0.0630	94.03	0.0717	9.5	0.0683
149	463.536	0.0630	94.03	0.0717	9.5	0.0684
150	463.536	0.0631	94.03	0.0717	9.5	0.0684
151	463.536	0.0631	94.03	0.0717	9.5	0.0684
152	463.536	0.0631	94.03	0.0718	9.5	0.0684
153	463.536	0.0631	94.03	0.0718	9.5	0.0684
154	463.536	0.0632	94.03	0.0718	9.5	0.0684
155	463.536	0.0632	94.03	0.0718	9.5	0.0684
156	463.536	0.0632	94.03	0.0719	9.5	0.0684
157	463.536	0.0632	94.03	0.0719	9.5	0.0684
158	463.536	0.0633	94.03	0.0719	9.5	0.0684
159	463.536	0.0633	94.03	0.0719	9.5	0.0684

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
160	463.536	0.0633	94.03	0.0720	9.5	0.0684
161	463.536	0.0633	94.03	0.0720	9.5	0.0684
162	463.536	0.0634	94.03	0.0720	9.5	0.0684
163	463.536	0.0634	94.03	0.0720	9.5	0.0684
164	463.536	0.0634	94.03	0.0721	9.5	0.0684
165	463.536	0.0634	94.03	0.0721	9.5	0.0684
166	463.536	0.0635	94.03	0.0721	9.5	0.0684
167	463.536	0.0635	94.03	0.0721	9.5	0.0684
168	463.536	0.0635	94.03	0.0721	9.5	0.0684
169	463.536	0.0635	94.03	0.0722	9.5	0.0684
170	463.536	0.0636	94.03	0.0722	9.5	0.0684
171	463.536	0.0636	94.03	0.0722	9.5	0.0684
172	463.536	0.0636	94.03	0.0722	9.5	0.0684
173	463.536	0.0636	94.03	0.0722	9.5	0.0684
174	463.536	0.0637	94.03	0.0722	9.5	0.0684
175	463.536	0.0637	94.03	0.0722	9.5	0.0684
176	463.536	0.0637	94.03	0.0723	9.5	0.0684
177	463.536	0.0637	94.03	0.0723	9.5	0.0684
178	463.536	0.0638	94.03	0.0723	9.5	0.0684
179	463.536	0.0638	94.03	0.0723	9.5	0.0684
180	463.536	0.0638	94.03	0.0723	9.5	0.0684
181	463.536	0.0638	94.03	0.0723	9.5	0.0684
182	463.536	0.0638	94.03	0.0723	9.5	0.0684
183	463.536	0.0639	94.03	0.0723	9.5	0.0684
184	463.536	0.0639	94.03	0.0724	9.5	0.0684
185	463.536	0.0639	94.03	0.0724	9.5	0.0684
186	463.536	0.0639	94.03	0.0724	9.5	0.0684
187	463.536	0.0640	94.03	0.0724	9.5	0.0684
188	463.536	0.0640	94.03	0.0724	9.5	0.0684
189	463.536	0.0640	94.03	0.0724	9.5	0.0684
190	463.536	0.0640	94.03	0.0724	9.5	0.0684
191	463.536	0.0640	94.03	0.0725	9.5	0.0684
192	463.536	0.0641	94.03	0.0725	9.5	0.0684
193	463.536	0.0641	94.03	0.0725	9.5	0.0685
194	463.536	0.0641	94.03	0.0725	9.5	0.0685
195	463.536	0.0641	94.03	0.0725	9.5	0.0685
196	463.536	0.0642	94.03	0.0725	9.5	0.0685
197	463.536	0.0642	94.03	0.0725	9.5	0.0685
198	463.536	0.0642	94.03	0.0726	9.5	0.0685
199	463.536	0.0642	94.03	0.0726	9.5	0.0685
200	463.536	0.0642	94.03	0.0726	9.5	0.0685

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
201	463.536	0.0643	94.03	0.0726	9.5	0.0685
202	463.536	0.0643	94.03	0.0726	9.5	0.0685
203	463.536	0.0643	94.03	0.0726	9.5	0.0685
204	463.536	0.0643	94.03	0.0726	9.5	0.0685
205	463.536	0.0643	94.03	0.0726	9.5	0.0685
206	463.536	0.0644	94.03	0.0727	9.5	0.0685
207	463.536	0.0644	94.03	0.0727	9.5	0.0685
208	463.536	0.0644	94.03	0.0727	9.5	0.0685
209	463.536	0.0644	94.03	0.0727	9.5	0.0685
210	463.536	0.0644	94.03	0.0727	9.5	0.0685
211	463.536	0.0645	94.03	0.0727	9.5	0.0685
212	463.536	0.0645	94.03	0.0727	9.5	0.0685
213	463.536	0.0645	94.03	0.0728	9.5	0.0685
214	463.536	0.0645	94.03	0.0728	9.5	0.0685
215	463.536	0.0645	94.03	0.0728	9.5	0.0685
216	463.536	0.0646	94.03	0.0728	9.5	0.0685
217	463.536	0.0646	94.03	0.0728	9.5	0.0685
218	463.536	0.0646	94.03	0.0728	9.5	0.0685
219	463.536	0.0646	94.03	0.0728	9.5	0.0685
220	463.536	0.0646	94.03	0.0728	9.5	0.0685
221	463.536	0.0647	94.03	0.0729	9.5	0.0685
222	463.536	0.0647	94.03	0.0729	9.5	0.0685
223	463.536	0.0647	94.03	0.0729	9.5	0.0685
224	463.536	0.0647	94.03	0.0729	9.5	0.0685
225	463.536	0.0647	94.03	0.0729	9.5	0.0685
226	463.536	0.0648	94.03	0.0729	9.5	0.0685
227	463.536	0.0648	94.03	0.0729	9.5	0.0685
228	463.536	0.0648	94.03	0.0729	9.5	0.0685
229	463.536	0.0648	94.03	0.0730	9.5	0.0686
230	463.536	0.0648	94.03	0.0730	9.5	0.0686
231	463.536	0.0649	94.03	0.0730	9.5	0.0686
232	463.536	0.0649	94.03	0.0730	9.5	0.0686
233	463.536	0.0649	94.03	0.0730	9.5	0.0686
234	463.536	0.0649	94.03	0.0730	9.5	0.0686
235	463.536	0.0649	94.03	0.0730	9.5	0.0686
236	463.536	0.0650	94.03	0.0731	9.5	0.0686
237	463.536	0.0650	94.03	0.0731	9.5	0.0686
238	463.536	0.0650	94.03	0.0731	9.5	0.0686
239	463.536	0.0650	94.03	0.0731	9.5	0.0686
240	463.536	0.0650	94.03	0.0731	9.5	0.0686
241	463.536	0.0650	94.03	0.0731	9.5	0.0686

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
242	463.536	0.0651	94.03	0.0731	9.5	0.0686
243	463.536	0.0651	94.03	0.0731	9.5	0.0686
244	463.536	0.0651	94.03	0.0732	9.5	0.0686
245	463.536	0.0651	94.03	0.0732	9.5	0.0686
246	463.536	0.0651	94.03	0.0732	9.5	0.0686
247	463.536	0.0652	94.03	0.0732	9.5	0.0686
248	463.536	0.0652	94.03	0.0732	9.5	0.0686
249	463.536	0.0652	94.03	0.0732	9.5	0.0686
250	463.536	0.0652	94.03	0.0732	9.5	0.0686
251	463.536	0.0652	94.03	0.0732	9.5	0.0686
252	463.536	0.0652	94.03	0.0733	9.5	0.0686
253	463.536	0.0653	94.03	0.0733	9.5	0.0686
254	463.536	0.0653	94.03	0.0733	9.5	0.0686
255	463.536	0.0653	94.03	0.0733	9.5	0.0686
256	463.536	0.0653	94.03	0.0733	9.5	0.0686
257	463.536	0.0653	94.03	0.0733	9.5	0.0686
258	463.536	0.0654	94.03	0.0733	9.5	0.0686
259	463.536	0.0654	94.03	0.0733	9.5	0.0686
260	463.536	0.0654	94.03	0.0734	9.5	0.0686
261	463.536	0.0654	94.03	0.0734	9.5	0.0687
262	463.536	0.0654	94.03	0.0734	9.5	0.0687
263	463.536	0.0654	94.03	0.0734	9.5	0.0687
264	463.536	0.0655	94.03	0.0734	9.5	0.0687
265	463.536	0.0655	94.03	0.0734	9.5	0.0687
266	463.536	0.0655	94.03	0.0734	9.5	0.0687
267	463.536	0.0655	94.03	0.0734	9.5	0.0687
268	463.536	0.0655	94.03	0.0735	9.5	0.0687
269	463.536	0.0655	94.03	0.0735	9.5	0.0687
270	463.536	0.0656	94.03	0.0735	9.5	0.0687
271	463.536	0.0656	94.03	0.0735	9.5	0.0687
272	463.536	0.0656	94.03	0.0735	9.5	0.0687
273	463.536	0.0656	94.03	0.0735	9.5	0.0687
274	463.536	0.0656	94.03	0.0735	9.5	0.0687
275	463.536	0.0656	94.03	0.0735	9.5	0.0687
276	463.536	0.0657	94.03	0.0736	9.5	0.0687
277	463.536	0.0657	94.03	0.0736	9.5	0.0687
278	463.536	0.0657	94.03	0.0736	9.5	0.0687
279	463.536	0.0657	94.03	0.0736	9.5	0.0687
280	463.536	0.0657	94.03	0.0736	9.5	0.0687
281	463.536	0.0657	94.03	0.0736	9.5	0.0687
282	463.536	0.0658	94.03	0.0736	9.5	0.0687

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
283	463.536	0.0658	94.03	0.0736	9.5	0.0687
284	463.536	0.0658	94.03	0.0737	9.5	0.0687
285	463.536	0.0658	94.03	0.0737	9.5	0.0687
286	463.536	0.0658	94.03	0.0737	9.5	0.0687
287	463.536	0.0658	94.03	0.0737	9.5	0.0687
288	463.536	0.0659	94.03	0.0737	9.5	0.0687
289	463.536	0.0659	94.03	0.0737	9.5	0.0688
290	463.536	0.0659	94.03	0.0737	9.5	0.0688
291	463.536	0.0659	94.03	0.0737	9.5	0.0688
292	463.536	0.0659	94.03	0.0738	9.5	0.0688
293	463.536	0.0659	94.03	0.0738	9.5	0.0688
294	463.536	0.0659	94.03	0.0738	9.5	0.0688
295	463.536	0.0660	94.03	0.0738	9.5	0.0688
296	463.536	0.0660	94.03	0.0738	9.5	0.0688
297	463.536	0.0660	94.03	0.0738	9.5	0.0688
298	463.536	0.0660	94.03	0.0738	9.5	0.0688
299	463.536	0.0660	94.03	0.0738	9.5	0.0688
300	463.536	0.0660	94.03	0.0739	9.5	0.0688
301	463.536	0.0661	94.03	0.0739	9.5	0.0688
302	463.536	0.0661	94.03	0.0739	9.5	0.0688
303	463.536	0.0661	94.03	0.0739	9.5	0.0688
304	463.536	0.0661	94.03	0.0739	9.5	0.0688
305	463.536	0.0661	94.03	0.0739	9.5	0.0688
306	463.536	0.0661	94.03	0.0739	9.5	0.0688
307	463.536	0.0661	94.03	0.0739	9.5	0.0688
308	463.536	0.0662	94.03	0.0740	9.5	0.0688
309	463.536	0.0662	94.03	0.0740	9.5	0.0688
310	463.536	0.0662	94.03	0.0740	9.5	0.0688
311	463.536	0.0662	94.03	0.0740	9.5	0.0688
312	463.536	0.0662	94.03	0.0740	9.5	0.0688
313	463.536	0.0662	94.03	0.0740	9.5	0.0688
314	463.536	0.0663	94.03	0.0740	9.5	0.0688
315	463.536	0.0663	94.03	0.0740	9.5	0.0688
316	463.536	0.0663	94.03	0.0741	9.5	0.0689
317	463.536	0.0663	94.03	0.0741	9.5	0.0689
318	463.536	0.0663	94.03	0.0741	9.5	0.0689
319	463.536	0.0663	94.03	0.0741	9.5	0.0689
320	463.536	0.0663	94.03	0.0741	9.5	0.0689
321	463.536	0.0664	94.03	0.0741	9.5	0.0689
322	463.536	0.0664	94.03	0.0741	9.5	0.0689
323	463.536	0.0664	94.03	0.0741	9.5	0.0689

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
324	463.536	0.0664	94.03	0.0741	9.5	0.0689
325	463.536	0.0664	94.03	0.0742	9.5	0.0689
326	463.536	0.0664	94.03	0.0742	9.5	0.0689
327	463.536	0.0664	94.03	0.0742	9.5	0.0689
328	463.536	0.0665	94.03	0.0742	9.5	0.0689
329	463.536	0.0665	94.03	0.0742	9.5	0.0689
330	463.536	0.0665	94.03	0.0742	9.5	0.0689
331	463.536	0.0665	94.03	0.0742	9.5	0.0689
332	463.536	0.0665	94.03	0.0742	9.5	0.0689
333	463.536	0.0665	94.03	0.0743	9.5	0.0689
334	463.536	0.0665	94.03	0.0743	9.5	0.0689
335	463.536	0.0666	94.03	0.0743	9.5	0.0689
336	463.536	0.0666	94.03	0.0743	9.5	0.0689
337	463.536	0.0666	94.03	0.0743	9.5	0.0689
338	463.536	0.0666	94.03	0.0743	9.5	0.0689
339	463.536	0.0666	94.03	0.0743	9.5	0.0689
340	463.536	0.0666	94.03	0.0743	9.5	0.0690
341	463.536	0.0666	94.03	0.0744	9.5	0.0690
342	463.536	0.0667	94.03	0.0744	9.5	0.0690
343	463.536	0.0667	94.03	0.0744	9.5	0.0690
344	463.536	0.0667	94.03	0.0744	9.5	0.0690
345	463.536	0.0667	94.03	0.0744	9.5	0.0690
346	463.536	0.0667	94.03	0.0744	9.5	0.0690
347	463.536	0.0667	94.03	0.0744	9.5	0.0690
348	463.536	0.0667	94.03	0.0744	9.5	0.0690
349	463.536	0.0668	94.03	0.0745	9.5	0.0690
350	463.536	0.0668	94.03	0.0745	9.5	0.0690
351	463.536	0.0668	94.03	0.0745	9.5	0.0690
352	463.536	0.0668	94.03	0.0745	9.5	0.0690
353	463.536	0.0668	94.03	0.0745	9.5	0.0690
354	463.536	0.0668	94.03	0.0745	9.5	0.0690
355	463.536	0.0668	94.03	0.0745	9.5	0.0690
356	463.536	0.0669	94.03	0.0745	9.5	0.0690
357	463.536	0.0669	94.03	0.0745	9.5	0.0690
358	463.536	0.0669	94.03	0.0746	9.5	0.0690
359	463.536	0.0669	94.03	0.0746	9.5	0.0690
360	463.536	0.0669	94.03	0.0746	9.5	0.0690
361	463.536	0.0669	94.03	0.0746	9.5	0.0690
362	463.536	0.0669	94.03	0.0746	9.5	0.0690
363	463.536	0.0669	94.03	0.0746	9.5	0.0690
364	463.536	0.0670	94.03	0.0746	9.5	0.0691

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
365	463.536	0.0670	94.03	0.0746	9.5	0.0691
366	463.536	0.0670	94.03	0.0747	9.5	0.0691
367	463.536	0.0670	94.03	0.0747	9.5	0.0691
368	463.536	0.0670	94.03	0.0747	9.5	0.0691
369	463.536	0.0670	94.03	0.0747	9.5	0.0691
370	463.536	0.0670	94.03	0.0747	9.5	0.0691
371	463.536	0.0671	94.03	0.0747	9.5	0.0691
372	463.536	0.0671	94.03	0.0747	9.5	0.0691
373	463.536	0.0671	94.03	0.0747	9.5	0.0691
374	463.536	0.0671	94.03	0.0748	9.5	0.0691
375	463.536	0.0671	94.03	0.0748	9.5	0.0691
376	463.536	0.0671	94.03	0.0748	9.5	0.0691
377	463.536	0.0671	94.03	0.0748	9.5	0.0691
378	463.536	0.0671	94.03	0.0748	9.5	0.0691
379	463.536	0.0672	94.03	0.0748	9.5	0.0691
380	463.536	0.0672	94.03	0.0748	9.5	0.0691
381	463.536	0.0672	94.03	0.0748	9.5	0.0691
382	463.536	0.0672	94.03	0.0749	9.5	0.0691
383	463.536	0.0672	94.03	0.0749	9.5	0.0691
384	463.536	0.0672	94.03	0.0749	9.5	0.0691
385	463.536	0.0672	94.03	0.0749	9.5	0.0691
386	463.536	0.0672	94.03	0.0749	9.5	0.0692
387	463.536	0.0673	94.03	0.0749	9.5	0.0692
388	463.536	0.0673	94.03	0.0749	9.5	0.0692
389	463.536	0.0673	94.03	0.0749	9.5	0.0692
390	463.536	0.0673	94.03	0.0749	9.5	0.0692
391	463.536	0.0673	94.03	0.0750	9.5	0.0692
392	463.536	0.0673	94.03	0.0750	9.5	0.0692
393	463.536	0.0673	94.03	0.0750	9.5	0.0692
394	463.536	0.0673	94.03	0.0750	9.5	0.0692
395	463.536	0.0674	94.03	0.0750	9.5	0.0692
396	463.536	0.0674	94.03	0.0750	9.5	0.0692
397	463.536	0.0674	94.03	0.0750	9.5	0.0692
398	463.536	0.0674	94.03	0.0750	9.5	0.0692
399	463.536	0.0674	94.03	0.0751	9.5	0.0692
400	463.536	0.0674	94.03	0.0751	9.5	0.0692
401	463.536	0.0674	94.03	0.0751	9.5	0.0692
402	463.536	0.0674	94.03	0.0751	9.5	0.0692
403	463.536	0.0675	94.03	0.0751	9.5	0.0692
404	463.536	0.0675	94.03	0.0751	9.5	0.0692
405	463.536	0.0675	94.03	0.0751	9.5	0.0692

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
406	463.536	0.0675	94.03	0.0751	9.5	0.0692
407	463.536	0.0675	94.03	0.0752	9.5	0.0693
408	463.536	0.0675	94.03	0.0752	9.5	0.0693
409	463.536	0.0675	94.03	0.0752	9.5	0.0693
410	463.536	0.0675	94.03	0.0752	9.5	0.0693
411	463.536	0.0676	94.03	0.0752	9.5	0.0693
412	463.536	0.0676	94.03	0.0752	9.5	0.0693
413	463.536	0.0676	94.03	0.0752	9.5	0.0693
414	463.536	0.0676	94.03	0.0752	9.5	0.0693
415	463.536	0.0676	94.03	0.0752	9.5	0.0693
416	463.536	0.0676	94.03	0.0753	9.5	0.0693
417	463.536	0.0676	94.03	0.0753	9.5	0.0693
418	463.536	0.0676	94.03	0.0753	9.5	0.0693
419	463.536	0.0677	94.03	0.0753	9.5	0.0693
420	463.536	0.0677	94.03	0.0753	9.5	0.0693
421	463.536	0.0677	94.03	0.0753	9.5	0.0693
422	463.536	0.0677	94.03	0.0753	9.5	0.0693
423	463.536	0.0677	94.03	0.0753	9.5	0.0693
424	463.536	0.0677	94.03	0.0754	9.5	0.0693
425	463.536	0.0677	94.03	0.0754	9.5	0.0693
426	463.536	0.0677	94.03	0.0754	9.5	0.0693
427	463.536	0.0677	94.03	0.0754	9.5	0.0694
428	463.536	0.0678	94.03	0.0754	9.5	0.0694
429	463.536	0.0678	94.03	0.0754	9.5	0.0694
430	463.536	0.0678	94.03	0.0754	9.5	0.0694
431	463.536	0.0678	94.03	0.0754	9.5	0.0694
432	463.536	0.0678	94.03	0.0755	9.5	0.0694
433	463.536	0.0678	94.03	0.0755	9.5	0.0694
434	463.536	0.0678	94.03	0.0755	9.5	0.0694
435	463.536	0.0678	94.03	0.0755	9.5	0.0694
436	463.536	0.0679	94.03	0.0755	9.5	0.0694
437	463.536	0.0679	94.03	0.0755	9.5	0.0694
438	463.536	0.0679	94.03	0.0755	9.5	0.0694
439	463.536	0.0679	94.03	0.0755	9.5	0.0694
440	463.536	0.0679	94.03	0.0755	9.5	0.0694
441	463.536	0.0679	94.03	0.0756	9.5	0.0694
442	463.536	0.0679	94.03	0.0756	9.5	0.0694
443	463.536	0.0679	94.03	0.0756	9.5	0.0694
444	463.536	0.0679	94.03	0.0756	9.5	0.0694
445	463.536	0.0680	94.03	0.0756	9.5	0.0694
446	463.536	0.0680	94.03	0.0756	9.5	0.0694

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
447	463.536	0.0680	94.03	0.0756	9.5	0.0695
448	463.536	0.0680	94.03	0.0756	9.5	0.0695
449	463.536	0.0680	94.03	0.0757	9.5	0.0695
450	463.536	0.0680	94.03	0.0757	9.5	0.0695
451	463.536	0.0680	94.03	0.0757	9.5	0.0695
452	463.536	0.0680	94.03	0.0757	9.5	0.0695
453	463.536	0.0680	94.03	0.0757	9.5	0.0695
454	463.536	0.0681	94.03	0.0757	9.5	0.0695
455	463.536	0.0681	94.03	0.0757	9.5	0.0695
456	463.536	0.0681	94.03	0.0757	9.5	0.0695
457	463.536	0.0681	94.03	0.0758	9.5	0.0695
458	463.536	0.0681	94.03	0.0758	9.5	0.0695
459	463.536	0.0681	94.03	0.0758	9.5	0.0695
460	463.536	0.0681	94.03	0.0758	9.5	0.0695
461	463.536	0.0681	94.03	0.0758	9.5	0.0695
462	463.536	0.0681	94.03	0.0758	9.5	0.0695
463	463.536	0.0682	94.03	0.0758	9.5	0.0695
464	463.536	0.0682	94.03	0.0758	9.5	0.0695
465	463.536	0.0682	94.03	0.0758	9.5	0.0696
466	463.536	0.0682	94.03	0.0759	9.5	0.0696
467	463.536	0.0682	94.03	0.0759	9.5	0.0696
468	463.536	0.0682	94.03	0.0759	9.5	0.0696
469	463.536	0.0682	94.03	0.0759	9.5	0.0696
470	463.536	0.0682	94.03	0.0759	9.5	0.0696
471	463.536	0.0682	94.03	0.0759	9.5	0.0696
472	463.536	0.0683	94.03	0.0759	9.5	0.0696
473	463.536	0.0683	94.03	0.0759	9.5	0.0696
474	463.536	0.0683	94.03	0.0760	9.5	0.0696
475	463.536	0.0683	94.03	0.0760	9.5	0.0696
476	463.536	0.0683	94.03	0.0760	9.5	0.0696
477	463.536	0.0683	94.03	0.0760	9.5	0.0696
478	463.536	0.0683	94.03	0.0760	9.5	0.0696
479	463.536	0.0683	94.03	0.0760	9.5	0.0696
480	463.536	0.0683	94.03	0.0760	9.5	0.0696
481	463.536	0.0684	94.03	0.0760	9.5	0.0696
482	463.536	0.0684	94.03	0.0761	9.5	0.0696
483	463.536	0.0684	94.03	0.0761	9.5	0.0696
484	463.536	0.0684	94.03	0.0761	9.5	0.0697
485	463.536	0.0684	94.03	0.0761	9.5	0.0697
486	463.536	0.0684	94.03	0.0761	9.5	0.0697
487	463.536	0.0684	94.03	0.0761	9.5	0.0697

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
488	463.536	0.0684	94.03	0.0761	9.5	0.0697
489	463.536	0.0684	94.03	0.0761	9.5	0.0697
490	463.536	0.0685	94.03	0.0762	9.5	0.0697
491	463.536	0.0685	94.03	0.0762	9.5	0.0697
492	463.536	0.0685	94.03	0.0762	9.5	0.0697
493	463.536	0.0685	94.03	0.0762	9.5	0.0697
494	463.536	0.0685	94.03	0.0762	9.5	0.0697
495	463.536	0.0685	94.03	0.0762	9.5	0.0697
496	463.536	0.0685	94.03	0.0762	9.5	0.0697
497	463.536	0.0685	94.03	0.0762	9.5	0.0697
498	463.536	0.0685	94.03	0.0762	9.5	0.0697
499	463.536	0.0685	94.03	0.0763	9.5	0.0697
500	463.536	0.0686	94.03	0.0763	9.5	0.0697
501	463.536	0.0686	94.03	0.0763	9.5	0.0698
502	463.536	0.0686	94.03	0.0763	9.5	0.0698
503	463.536	0.0686	94.03	0.0763	9.5	0.0698
504	463.536	0.0686	94.03	0.0763	9.5	0.0698
505	463.536	0.0686	94.03	0.0763	9.5	0.0698
506	463.536	0.0686	94.03	0.0763	9.5	0.0698
507	463.536	0.0686	94.03	0.0764	9.5	0.0698
508	463.536	0.0686	94.03	0.0764	9.5	0.0698
509	463.536	0.0687	94.03	0.0764	9.5	0.0698
510	463.536	0.0687	94.03	0.0764	9.5	0.0698
511	463.536	0.0687	94.03	0.0764	9.5	0.0698
512	463.536	0.0687	94.03	0.0764	9.5	0.0698
513	463.536	0.0687	94.03	0.0764	9.5	0.0698
514	463.536	0.0687	94.03	0.0764	9.5	0.0698
515	463.536	0.0687	94.03	0.0765	9.5	0.0698
516	463.536	0.0687	94.03	0.0765	9.5	0.0698
517	463.536	0.0687	94.03	0.0765	9.5	0.0698
518	463.536	0.0687	94.03	0.0765	9.5	0.0699
519	463.536	0.0688	94.03	0.0765	9.5	0.0699
520	463.536	0.0688	94.03	0.0765	9.5	0.0699
521	463.536	0.0688	94.03	0.0765	9.5	0.0699
522	463.536	0.0688	94.03	0.0765	9.5	0.0699
523	463.536	0.0688	94.03	0.0765	9.5	0.0699
524	463.536	0.0688	94.03	0.0766	9.5	0.0699
525	463.536	0.0688	94.03	0.0766	9.5	0.0699
526	463.536	0.0688	94.03	0.0766	9.5	0.0699
527	463.536	0.0688	94.03	0.0766	9.5	0.0699
528	463.536	0.0688	94.03	0.0766	9.5	0.0699

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
529	463.536	0.0689	94.03	0.0766	9.5	0.0699
530	463.536	0.0689	94.03	0.0766	9.5	0.0699
531	463.536	0.0689	94.03	0.0766	9.5	0.0699
532	463.536	0.0689	94.03	0.0767	9.5	0.0699
533	463.536	0.0689	94.03	0.0767	9.5	0.0699
534	463.536	0.0689	94.03	0.0767	9.5	0.0699
535	463.536	0.0689	94.03	0.0767	9.5	0.0700
536	463.536	0.0689	94.03	0.0767	9.5	0.0700
537	463.536	0.0689	94.03	0.0767	9.5	0.0700
538	463.536	0.0689	94.03	0.0767	9.5	0.0700
539	463.536	0.0690	94.03	0.0767	9.5	0.0700
540	463.536	0.0690	94.03	0.0768	9.5	0.0700
541	463.536	0.0690	94.03	0.0768	9.5	0.0700
542	463.536	0.0690	94.03	0.0768	9.5	0.0700
543	463.536	0.0690	94.03	0.0768	9.5	0.0700
544	463.536	0.0690	94.03	0.0768	9.5	0.0700
545	463.536	0.0690	94.03	0.0768	9.5	0.0700
546	463.536	0.0690	94.03	0.0768	9.5	0.0700
547	463.536	0.0690	94.03	0.0768	9.5	0.0700
548	463.536	0.0690	94.03	0.0768	9.5	0.0700
549	463.536	0.0690	94.03	0.0769	9.5	0.0700
550	463.536	0.0691	94.03	0.0769	9.5	0.0700
551	463.536	0.0691	94.03	0.0769	9.5	0.0701
552	463.536	0.0691	94.03	0.0769	9.5	0.0701
553	463.536	0.0691	94.03	0.0769	9.5	0.0701
554	463.536	0.0691	94.03	0.0769	9.5	0.0701
555	463.536	0.0691	94.03	0.0769	9.5	0.0701
556	463.536	0.0691	94.03	0.0769	9.5	0.0701
557	463.536	0.0691	94.03	0.0770	9.5	0.0701
558	463.536	0.0691	94.03	0.0770	9.5	0.0701
559	463.536	0.0691	94.03	0.0770	9.5	0.0701
560	463.536	0.0692	94.03	0.0770	9.5	0.0701
561	463.536	0.0692	94.03	0.0770	9.5	0.0701
562	463.536	0.0692	94.03	0.0770	9.5	0.0701
563	463.536	0.0692	94.03	0.0770	9.5	0.0701
564	463.536	0.0692	94.03	0.0770	9.5	0.0701
565	463.536	0.0692	94.03	0.0771	9.5	0.0701
566	463.536	0.0692	94.03	0.0771	9.5	0.0701
567	463.536	0.0692	94.03	0.0771	9.5	0.0702
568	463.536	0.0692	94.03	0.0771	9.5	0.0702
569	463.536	0.0692	94.03	0.0771	9.5	0.0702

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
570	463.536	0.0692	94.03	0.0771	9.5	0.0702
571	463.536	0.0693	94.03	0.0771	9.5	0.0702
572	463.536	0.0693	94.03	0.0771	9.5	0.0702
573	463.536	0.0693	94.03	0.0771	9.5	0.0702
574	463.536	0.0693	94.03	0.0772	9.5	0.0702
575	463.536	0.0693	94.03	0.0772	9.5	0.0702
576	463.536	0.0693	94.03	0.0772	9.5	0.0702
577	463.536	0.0693	94.03	0.0772	9.5	0.0702
578	463.536	0.0693	94.03	0.0772	9.5	0.0702
579	463.536	0.0693	94.03	0.0772	9.5	0.0702
580	463.536	0.0693	94.03	0.0772	9.5	0.0702
581	463.536	0.0693	94.03	0.0772	9.5	0.0702
582	463.536	0.0694	94.03	0.0773	9.5	0.0702
583	463.536	0.0694	94.03	0.0773	9.5	0.0703
584	463.536	0.0694	94.03	0.0773	9.5	0.0703
585	463.536	0.0694	94.03	0.0773	9.5	0.0703
586	463.536	0.0694	94.03	0.0773	9.5	0.0703
587	463.536	0.0694	94.03	0.0773	9.5	0.0703
588	463.536	0.0694	94.03	0.0773	9.5	0.0703
589	463.536	0.0694	94.03	0.0773	9.5	0.0703
590	463.536	0.0694	94.03	0.0774	9.5	0.0703
591	463.536	0.0694	94.03	0.0774	9.5	0.0703
592	463.536	0.0694	94.03	0.0774	9.5	0.0703
593	463.536	0.0695	94.03	0.0774	9.5	0.0703
594	463.536	0.0695	94.03	0.0774	9.5	0.0703
595	463.536	0.0695	94.03	0.0774	9.5	0.0703
596	463.536	0.0695	94.03	0.0774	9.5	0.0703
597	463.536	0.0695	94.03	0.0774	9.5	0.0703
598	463.536	0.0695	94.03	0.0774	9.5	0.0704
599	463.536	0.0695	94.03	0.0775	9.5	0.0704
600	463.536	0.0695	94.03	0.0775	9.5	0.0704
601	463.536	0.0695	94.03	0.0775	9.5	0.0704
602	463.536	0.0695	94.03	0.0775	9.5	0.0704
603	463.536	0.0695	94.03	0.0775	9.5	0.0704
604	463.536	0.0696	94.03	0.0775	9.5	0.0704
605	463.536	0.0696	94.03	0.0775	9.5	0.0704
606	463.536	0.0696	94.03	0.0775	9.5	0.0704
607	463.536	0.0696	94.03	0.0776	9.5	0.0704
608	463.536	0.0696	94.03	0.0776	9.5	0.0704
609	463.536	0.0696	94.03	0.0776	9.5	0.0704
610	463.536	0.0696	94.03	0.0776	9.5	0.0704

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
611	463.536	0.0696	94.03	0.0776	9.5	0.0704
612	463.536	0.0696	94.03	0.0776	9.5	0.0704
613	463.536	0.0696	94.03	0.0776	9.5	0.0705
614	463.536	0.0696	94.03	0.0776	9.5	0.0705
615	463.536	0.0696	94.03	0.0777	9.5	0.0705
616	463.536	0.0697	94.03	0.0777	9.5	0.0705
617	463.536	0.0697	94.03	0.0777	9.5	0.0705
618	463.536	0.0697	94.03	0.0777	9.5	0.0705
619	463.536	0.0697	94.03	0.0777	9.5	0.0705
620	463.536	0.0697	94.03	0.0777	9.5	0.0705
621	463.536	0.0697	94.03	0.0777	9.5	0.0705
622	463.536	0.0697	94.03	0.0777	9.5	0.0705
623	463.536	0.0697	94.03	0.0777	9.5	0.0705
624	463.536	0.0697	94.03	0.0778	9.5	0.0705
625	463.536	0.0697	94.03	0.0778	9.5	0.0705
626	463.536	0.0697	94.03	0.0778	9.5	0.0705
627	463.536	0.0698	94.03	0.0778	9.5	0.0705
628	463.536	0.0698	94.03	0.0778	9.5	0.0706
629	463.536	0.0698	94.03	0.0778	9.5	0.0706
630	463.536	0.0698	94.03	0.0778	9.5	0.0706
631	463.536	0.0698	94.03	0.0778	9.5	0.0706
632	463.536	0.0698	94.03	0.0779	9.5	0.0706
633	463.536	0.0698	94.03	0.0779	9.5	0.0706
634	463.536	0.0698	94.03	0.0779	9.5	0.0706
635	463.536	0.0698	94.03	0.0779	9.5	0.0706
636	463.536	0.0698	94.03	0.0779	9.5	0.0706
637	463.536	0.0698	94.03	0.0779	9.5	0.0706
638	463.536	0.0698	94.03	0.0779	9.5	0.0706
639	463.536	0.0699	94.03	0.0779	9.5	0.0706
640	463.536	0.0699	94.03	0.0780	9.5	0.0706
641	463.536	0.0699	94.03	0.0780	9.5	0.0706
642	463.536	0.0699	94.03	0.0780	9.5	0.0707
643	463.536	0.0699	94.03	0.0780	9.5	0.0707
644	463.536	0.0699	94.03	0.0780	9.5	0.0707
645	463.536	0.0699	94.03	0.0780	9.5	0.0707
646	463.536	0.0699	94.03	0.0780	9.5	0.0707
647	463.536	0.0699	94.03	0.0780	9.5	0.0707
648	463.536	0.0699	94.03	0.0780	9.5	0.0707
649	463.536	0.0699	94.03	0.0781	9.5	0.0707
650	463.536	0.0699	94.03	0.0781	9.5	0.0707
651	463.536	0.0700	94.03	0.0781	9.5	0.0707

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
652	463.536	0.0700	94.03	0.0781	9.5	0.0707
653	463.536	0.0700	94.03	0.0781	9.5	0.0707
654	463.536	0.0700	94.03	0.0781	9.5	0.0707
655	463.536	0.0700	94.03	0.0781	9.5	0.0707
656	463.536	0.0700	94.03	0.0781	9.5	0.0708
657	463.536	0.0700	94.03	0.0782	9.5	0.0708
658	463.536	0.0700	94.03	0.0782	9.5	0.0708
659	463.536	0.0700	94.03	0.0782	9.5	0.0708
660	463.536	0.0700	94.03	0.0782	9.5	0.0708
661	463.536	0.0700	94.03	0.0782	9.5	0.0708
662	463.536	0.0700	94.03	0.0782	9.5	0.0708
663	463.536	0.0701	94.03	0.0782	9.5	0.0708
664	463.536	0.0701	94.03	0.0782	9.5	0.0708
665	463.536	0.0701	94.03	0.0783	9.5	0.0708
666	463.536	0.0701	94.03	0.0783	9.5	0.0708
667	463.536	0.0701	94.03	0.0783	9.5	0.0708
668	463.536	0.0701	94.03	0.0783	9.5	0.0708
669	463.536	0.0701	94.03	0.0783	9.5	0.0708
670	463.536	0.0701	94.03	0.0783	9.5	0.0709
671	463.536	0.0701	94.03	0.0783	9.5	0.0709
672	463.536	0.0701	94.03	0.0783	9.5	0.0709
673	463.536	0.0701	94.03	0.0783	9.5	0.0709
674	463.536	0.0701	94.03	0.0784	9.5	0.0709
675	463.536	0.0701	94.03	0.0784	9.5	0.0709
676	463.536	0.0702	94.03	0.0784	9.5	0.0709
677	463.536	0.0702	94.03	0.0784	9.5	0.0709
678	463.536	0.0702	94.03	0.0784	9.5	0.0709
679	463.536	0.0702	94.03	0.0784	9.5	0.0709
680	463.536	0.0702	94.03	0.0784	9.5	0.0709
681	463.536	0.0702	94.03	0.0784	9.5	0.0709
682	463.536	0.0702	94.03	0.0785	9.5	0.0709
683	463.536	0.0702	94.03	0.0785	9.5	0.0709
684	463.536	0.0702	94.03	0.0785	9.5	0.0710
685	463.536	0.0702	94.03	0.0785	9.5	0.0710
686	463.536	0.0702	94.03	0.0785	9.5	0.0710
687	463.536	0.0702	94.03	0.0785	9.5	0.0710
688	463.536	0.0703	94.03	0.0785	9.5	0.0710
689	463.536	0.0703	94.03	0.0785	9.5	0.0710
690	463.536	0.0703	94.03	0.0785	9.5	0.0710
691	463.536	0.0703	94.03	0.0786	9.5	0.0710
692	463.536	0.0703	94.03	0.0786	9.5	0.0710

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
693	463.536	0.0703	94.03	0.0786	9.5	0.0710
694	463.536	0.0703	94.03	0.0786	9.5	0.0710
695	463.536	0.0703	94.03	0.0786	9.5	0.0710
696	463.536	0.0703	94.03	0.0786	9.5	0.0710
697	463.536	0.0703	94.03	0.0786	9.5	0.0710
698	463.536	0.0703	94.03	0.0786	9.5	0.0711
699	463.536	0.0703	94.03	0.0787	9.5	0.0711
700	463.536	0.0703	94.03	0.0787	9.5	0.0711
701	463.536	0.0704	94.03	0.0787	9.5	0.0711
702	463.536	0.0704	94.03	0.0787	9.5	0.0711
703	463.536	0.0704	94.03	0.0787	9.5	0.0711
704	463.536	0.0704	94.03	0.0787	9.5	0.0711
705	463.536	0.0704	94.03	0.0787	9.5	0.0711
706	463.536	0.0704	94.03	0.0787	9.5	0.0711
707	463.536	0.0704	94.03	0.0788	9.5	0.0711
708	463.536	0.0704	94.03	0.0788	9.5	0.0711
709	463.536	0.0704	94.03	0.0788	9.5	0.0711
710	463.536	0.0704	94.03	0.0788	9.5	0.0711
711	463.536	0.0704	94.03	0.0788	9.5	0.0712
712	463.536	0.0704	94.03	0.0788	9.5	0.0712
713	463.536	0.0704	94.03	0.0788	9.5	0.0712
714	463.536	0.0704	94.03	0.0788	9.5	0.0712
715	463.536	0.0705	94.03	0.0788	9.5	0.0712
716	463.536	0.0705	94.03	0.0789	9.5	0.0712
717	463.536	0.0705	94.03	0.0789	9.5	0.0712
718	463.536	0.0705	94.03	0.0789	9.5	0.0712
719	463.536	0.0705	94.03	0.0789	9.5	0.0712
720	463.536	0.0705	94.03	0.0789	9.5	0.0712
721	463.536	0.0705	94.03	0.0789	9.5	0.0712
722	463.536	0.0705	94.03	0.0789	9.5	0.0712
723	463.536	0.0705	94.03	0.0789	9.5	0.0712
724	463.536	0.0705	94.03	0.0790	9.5	0.0713
725	463.536	0.0705	94.03	0.0790	9.5	0.0713
726	463.536	0.0705	94.03	0.0790	9.5	0.0713
727	463.536	0.0705	94.03	0.0790	9.5	0.0713
728	463.536	0.0706	94.03	0.0790	9.5	0.0713
729	463.536	0.0706	94.03	0.0790	9.5	0.0713
730	463.536	0.0706	94.03	0.0790	9.5	0.0713
731	463.536	0.0706	94.03	0.0790	9.5	0.0713
732	463.536	0.0706	94.03	0.0790	9.5	0.0713
733	463.536	0.0706	94.03	0.0791	9.5	0.0713

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
734	463.536	0.0706	94.03	0.0791	9.5	0.0713
735	463.536	0.0706	94.03	0.0791	9.5	0.0713
736	463.536	0.0706	94.03	0.0791	9.5	0.0713
737	463.536	0.0706	94.03	0.0791	9.5	0.0714
738	463.536	0.0706	94.03	0.0791	9.5	0.0714
739	463.536	0.0706	94.03	0.0791	9.5	0.0714
740	463.536	0.0706	94.03	0.0791	9.5	0.0714
741	463.536	0.0706	94.03	0.0791	9.5	0.0714
742	463.536	0.0707	94.03	0.0791	9.5	0.0714
743	463.536	0.0707	94.03	0.0792	9.5	0.0714
744	463.536	0.0707	94.03	0.0792	9.5	0.0714
745	463.536	0.0707	94.03	0.0792	9.5	0.0714
746	463.536	0.0707	94.03	0.0792	9.5	0.0714
747	463.536	0.0707	94.03	0.0792	9.5	0.0714
748	463.536	0.0707	94.03	0.0792	9.5	0.0714
749	463.536	0.0707	94.03	0.0792	9.5	0.0714
750	463.536	0.0707	94.03	0.0792	9.5	0.0715
751	463.536	0.0707	94.03	0.0792	9.5	0.0715
752	463.536	0.0707	94.03	0.0792	9.5	0.0715
753	463.536	0.0707	94.03	0.0793	9.5	0.0715
754	463.536	0.0707	94.03	0.0793	9.5	0.0715
755	463.536	0.0708	94.03	0.0793	9.5	0.0715
756	463.536	0.0708	94.03	0.0793	9.5	0.0715
757	463.536	0.0708	94.03	0.0793	9.5	0.0715
758	463.536	0.0708	94.03	0.0793	9.5	0.0715
759	463.536	0.0708	94.03	0.0793	9.5	0.0715
760	463.536	0.0708	94.03	0.0793	9.5	0.0715
761	463.536	0.0708	94.03	0.0793	9.5	0.0715
762	463.536	0.0708	94.03	0.0793	9.5	0.0716
763	463.536	0.0708	94.03	0.0793	9.5	0.0716
764	463.536	0.0708	94.03	0.0794	9.5	0.0716
765	463.536	0.0708	94.03	0.0794	9.5	0.0716
766	463.536	0.0708	94.03	0.0794	9.5	0.0716
767	463.536	0.0708	94.03	0.0794	9.5	0.0716
768	463.536	0.0708	94.03	0.0794	9.5	0.0716
769	463.536	0.0708	94.03	0.0794	9.5	0.0716
770	463.536	0.0709	94.03	0.0794	9.5	0.0716
771	463.536	0.0709	94.03	0.0794	9.5	0.0716
772	463.536	0.0709	94.03	0.0794	9.5	0.0716
773	463.536	0.0709	94.03	0.0794	9.5	0.0716
774	463.536	0.0709	94.03	0.0795	9.5	0.0716

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
775	463.536	0.0709	94.03	0.0795	9.5	0.0717
776	463.536	0.0709	94.03	0.0795	9.5	0.0717
777	463.536	0.0709	94.03	0.0795	9.5	0.0717
778	463.536	0.0709	94.03	0.0795	9.5	0.0717
779	463.536	0.0709	94.03	0.0795	9.5	0.0717
780	463.536	0.0709	94.03	0.0795	9.5	0.0717
781	463.536	0.0709	94.03	0.0795	9.5	0.0717
782	463.536	0.0709	94.03	0.0795	9.5	0.0717
783	463.536	0.0709	94.03	0.0795	9.5	0.0717
784	463.536	0.0710	94.03	0.0795	9.5	0.0717
785	463.536	0.0710	94.03	0.0796	9.5	0.0717
786	463.536	0.0710	94.03	0.0796	9.5	0.0717
787	463.536	0.0710	94.03	0.0796	9.5	0.0718
788	463.536	0.0710	94.03	0.0796	9.5	0.0718
789	463.536	0.0710	94.03	0.0796	9.5	0.0718
790	463.536	0.0710	94.03	0.0796	9.5	0.0718
791	463.536	0.0710	94.03	0.0796	9.5	0.0718
792	463.536	0.0710	94.03	0.0796	9.5	0.0718
793	463.536	0.0710	94.03	0.0796	9.5	0.0718
794	463.536	0.0710	94.03	0.0796	9.5	0.0718
795	463.536	0.0710	94.03	0.0797	9.5	0.0718
796	463.536	0.0710	94.03	0.0797	9.5	0.0718
797	463.536	0.0710	94.03	0.0797	9.5	0.0718
798	463.536	0.0710	94.03	0.0797	9.5	0.0718
799	463.536	0.0711	94.03	0.0797	9.5	0.0719
800	463.536	0.0711	94.03	0.0797	9.5	0.0719
801	463.536	0.0711	94.03	0.0797	9.5	0.0719
802	463.536	0.0711	94.03	0.0797	9.5	0.0719
803	463.536	0.0711	94.03	0.0797	9.5	0.0719
804	463.536	0.0711	94.03	0.0797	9.5	0.0719
805	463.536	0.0711	94.03	0.0798	9.5	0.0719
806	463.536	0.0711	94.03	0.0798	9.5	0.0719
807	463.536	0.0711	94.03	0.0798	9.5	0.0719
808	463.536	0.0711	94.03	0.0798	9.5	0.0719
809	463.536	0.0711	94.03	0.0798	9.5	0.0719
810	463.536	0.0711	94.03	0.0798	9.5	0.0719
811	463.536	0.0711	94.03	0.0798	9.5	0.0720
812	463.536	0.0711	94.03	0.0798	9.5	0.0720
813	463.536	0.0711	94.03	0.0798	9.5	0.0720
814	463.536	0.0712	94.03	0.0798	9.5	0.0720
815	463.536	0.0712	94.03	0.0798	9.5	0.0720

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
816	463.536	0.0712	94.03	0.0799	9.5	0.0720
817	463.536	0.0712	94.03	0.0799	9.5	0.0720
818	463.536	0.0712	94.03	0.0799	9.5	0.0720
819	463.536	0.0712	94.03	0.0799	9.5	0.0720
820	463.536	0.0712	94.03	0.0799	9.5	0.0720
821	463.536	0.0712	94.03	0.0799	9.5	0.0720
822	463.536	0.0712	94.03	0.0799	9.5	0.0720
823	463.536	0.0712	94.03	0.0799	9.5	0.0721
824	463.536	0.0712	94.03	0.0799	9.5	0.0721
825	463.536	0.0712	94.03	0.0799	9.5	0.0721
826	463.536	0.0712	94.03	0.0800	9.5	0.0721
827	463.536	0.0712	94.03	0.0800	9.5	0.0721
828	463.536	0.0712	94.03	0.0800	9.5	0.0721
829	463.536	0.0713	94.03	0.0800	9.5	0.0721
830	463.536	0.0713	94.03	0.0800	9.5	0.0721
831	463.536	0.0713	94.03	0.0800	9.5	0.0721
832	463.536	0.0713	94.03	0.0800	9.5	0.0721
833	463.536	0.0713	94.03	0.0800	9.5	0.0721
834	463.536	0.0713	94.03	0.0800	9.5	0.0721
835	463.536	0.0713	94.03	0.0800	9.5	0.0721
836	463.536	0.0713	94.03	0.0800	9.5	0.0722
837	463.536	0.0713	94.03	0.0801	9.5	0.0722
838	463.536	0.0713	94.03	0.0801	9.5	0.0722
839	463.536	0.0713	94.03	0.0801	9.5	0.0722
840	463.536	0.0713	94.03	0.0801	9.5	0.0722
841	463.536	0.0713	94.03	0.0801	9.5	0.0722
842	463.536	0.0713	94.03	0.0801	9.5	0.0722
843	463.536	0.0713	94.03	0.0801	9.5	0.0722
844	463.536	0.0714	94.03	0.0801	9.5	0.0722
845	463.536	0.0714	94.03	0.0801	9.5	0.0722
846	463.536	0.0714	94.03	0.0801	9.5	0.0722
847	463.536	0.0714	94.03	0.0802	9.5	0.0722
848	463.536	0.0714	94.03	0.0802	9.5	0.0722
849	463.536	0.0714	94.03	0.0802	9.5	0.0722
850	463.536	0.0714	94.03	0.0802	9.5	0.0722
851	463.536	0.0714	94.03	0.0802	9.5	0.0722
852	463.536	0.0714	94.03	0.0802	9.5	0.0722
853	463.536	0.0714	94.03	0.0802	9.5	0.0722
854	463.536	0.0714	94.03	0.0802	9.5	0.0722
855	463.536	0.0714	94.03	0.0802	9.5	0.0722
856	463.536	0.0714	94.03	0.0802	9.5	0.0723

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
857	463.536	0.0714	94.03	0.0802	9.5	0.0723
858	463.536	0.0714	94.03	0.0803	9.5	0.0723
859	463.536	0.0714	94.03	0.0803	9.5	0.0723
860	463.536	0.0715	94.03	0.0803	9.5	0.0723
861	463.536	0.0715	94.03	0.0803	9.5	0.0723
862	463.536	0.0715	94.03	0.0803	9.5	0.0723
863	463.536	0.0715	94.03	0.0803	9.5	0.0723
864	463.536	0.0715	94.03	0.0803	9.5	0.0723
865	463.536	0.0715	94.03	0.0803	9.5	0.0723
866	463.536	0.0715	94.03	0.0803	9.5	0.0723
867	463.536	0.0715	94.03	0.0803	9.5	0.0723
868	463.536	0.0715	94.03	0.0804	9.5	0.0723
869	463.536	0.0715	94.03	0.0804	9.5	0.0723
870	463.536	0.0715	94.03	0.0804	9.5	0.0723
871	463.536	0.0715	94.03	0.0804	9.5	0.0723
872	463.536	0.0715	94.03	0.0804	9.5	0.0723
873	463.536	0.0715	94.03	0.0804	9.5	0.0723
874	463.536	0.0715	94.03	0.0804	9.5	0.0723
875	463.536	0.0715	94.03	0.0804	9.5	0.0723
876	463.536	0.0716	94.03	0.0804	9.5	0.0724
877	463.536	0.0716	94.03	0.0804	9.5	0.0724
878	463.536	0.0716	94.03	0.0804	9.5	0.0724
879	463.536	0.0716	94.03	0.0805	9.5	0.0724
880	463.536	0.0716	94.03	0.0805	9.5	0.0724
881	463.536	0.0716	94.03	0.0805	9.5	0.0724
882	463.536	0.0716	94.03	0.0805	9.5	0.0724
883	463.536	0.0716	94.03	0.0805	9.5	0.0724
884	463.536	0.0716	94.03	0.0805	9.5	0.0724
885	463.536	0.0716	94.03	0.0805	9.5	0.0724
886	463.536	0.0716	94.03	0.0805	9.5	0.0724
887	463.536	0.0716	94.03	0.0805	9.5	0.0724
888	463.536	0.0716	94.03	0.0805	9.5	0.0724
889	463.536	0.0716	94.03	0.0806	9.5	0.0724
890	463.536	0.0716	94.03	0.0806	9.5	0.0724
891	463.536	0.0716	94.03	0.0806	9.5	0.0724
892	463.536	0.0717	94.03	0.0806	9.5	0.0724
893	463.536	0.0717	94.03	0.0806	9.5	0.0724
894	463.536	0.0717	94.03	0.0806	9.5	0.0724
895	463.536	0.0717	94.03	0.0806	9.5	0.0724
896	463.536	0.0717	94.03	0.0806	9.5	0.0725
897	463.536	0.0717	94.03	0.0806	9.5	0.0725

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
898	463.536	0.0717	94.03	0.0806	9.5	0.0725
899	463.536	0.0717	94.03	0.0806	9.5	0.0725
900	463.536	0.0717	94.03	0.0807	9.5	0.0725
901	463.536	0.0717	94.03	0.0807	9.5	0.0725
902	463.536	0.0717	94.03	0.0807	9.5	0.0725
903	463.536	0.0717	94.03	0.0807	9.5	0.0725
904	463.536	0.0717	94.03	0.0807	9.5	0.0725
905	463.536	0.0717	94.03	0.0807	9.5	0.0725
906	463.536	0.0717	94.03	0.0807	9.5	0.0725
907	463.536	0.0717	94.03	0.0807	9.5	0.0725
908	463.536	0.0717	94.03	0.0807	9.5	0.0725
909	463.536	0.0718	94.03	0.0807	9.5	0.0725
910	463.536	0.0718	94.03	0.0807	9.5	0.0725
911	463.536	0.0718	94.03	0.0808	9.5	0.0725
912	463.536	0.0718	94.03	0.0808	9.5	0.0725
913	463.536	0.0718	94.03	0.0808	9.5	0.0725
914	463.536	0.0718	94.03	0.0808	9.5	0.0725
915	463.536	0.0718	94.03	0.0808	9.5	0.0726
916	463.536	0.0718	94.03	0.0808	9.5	0.0726
917	463.536	0.0718	94.03	0.0808	9.5	0.0726
918	463.536	0.0718	94.03	0.0808	9.5	0.0726
919	463.536	0.0718	94.03	0.0808	9.5	0.0726
920	463.536	0.0718	94.03	0.0808	9.5	0.0726
921	463.536	0.0718	94.03	0.0809	9.5	0.0726
922	463.536	0.0718	94.03	0.0809	9.5	0.0726
923	463.536	0.0718	94.03	0.0809	9.5	0.0726
924	463.536	0.0718	94.03	0.0809	9.5	0.0726
925	463.536	0.0718	94.03	0.0809	9.5	0.0726
926	463.536	0.0719	94.03	0.0809	9.5	0.0726
927	463.536	0.0719	94.03	0.0809	9.5	0.0726
928	463.536	0.0719	94.03	0.0809	9.5	0.0726
929	463.536	0.0719	94.03	0.0809	9.5	0.0726
930	463.536	0.0719	94.03	0.0809	9.5	0.0726
931	463.536	0.0719	94.03	0.0809	9.5	0.0726
932	463.536	0.0719	94.03	0.0810	9.5	0.0726
933	463.536	0.0719	94.03	0.0810	9.5	0.0727
934	463.536	0.0719	94.03	0.0810	9.5	0.0727
935	463.536	0.0719	94.03	0.0810	9.5	0.0727
936	463.536	0.0719	94.03	0.0810	9.5	0.0727
937	463.536	0.0719	94.03	0.0810	9.5	0.0727
938	463.536	0.0719	94.03	0.0810	9.5	0.0727

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
939	463.536	0.0719	94.03	0.0810	9.5	0.0727
940	463.536	0.0719	94.03	0.0810	9.5	0.0727
941	463.536	0.0719	94.03	0.0810	9.5	0.0727
942	463.536	0.0719	94.03	0.0811	9.5	0.0727
943	463.536	0.0720	94.03	0.0811	9.5	0.0727
944	463.536	0.0720	94.03	0.0811	9.5	0.0727
945	463.536	0.0720	94.03	0.0811	9.5	0.0727
946	463.536	0.0720	94.03	0.0811	9.5	0.0727
947	463.536	0.0720	94.03	0.0811	9.5	0.0727
948	463.536	0.0720	94.03	0.0811	9.5	0.0727
949	463.536	0.0720	94.03	0.0811	9.5	0.0727
950	463.536	0.0720	94.03	0.0811	9.5	0.0727
951	463.536	0.0720	94.03	0.0811	9.5	0.0727
952	463.536	0.0720	94.03	0.0811	9.5	0.0728
953	463.536	0.0720	94.03	0.0812	9.5	0.0728
954	463.536	0.0720	94.03	0.0812	9.5	0.0728
955	463.536	0.0720	94.03	0.0812	9.5	0.0728
956	463.536	0.0720	94.03	0.0812	9.5	0.0728
957	463.536	0.0720	94.03	0.0812	9.5	0.0728
958	463.536	0.0720	94.03	0.0812	9.5	0.0728
959	463.536	0.0720	94.03	0.0812	9.5	0.0728
960	463.536	0.0720	94.03	0.0812	9.5	0.0728
961	463.536	0.0721	94.03	0.0812	9.5	0.0728
962	463.536	0.0721	94.03	0.0812	9.5	0.0728
963	463.536	0.0721	94.03	0.0813	9.5	0.0728
964	463.536	0.0721	94.03	0.0813	9.5	0.0728
965	463.536	0.0721	94.03	0.0813	9.5	0.0728
966	463.536	0.0721	94.03	0.0813	9.5	0.0728
967	463.536	0.0721	94.03	0.0813	9.5	0.0728
968	463.536	0.0721	94.03	0.0813	9.5	0.0728
969	463.536	0.0721	94.03	0.0813	9.5	0.0728
970	463.536	0.0721	94.03	0.0813	9.5	0.0729
971	463.536	0.0721	94.03	0.0813	9.5	0.0729
972	463.536	0.0721	94.03	0.0813	9.5	0.0729
973	463.536	0.0721	94.03	0.0813	9.5	0.0729
974	463.536	0.0721	94.03	0.0814	9.5	0.0729
975	463.536	0.0721	94.03	0.0814	9.5	0.0729
976	463.536	0.0721	94.03	0.0814	9.5	0.0729
977	463.536	0.0721	94.03	0.0814	9.5	0.0729
978	463.536	0.0721	94.03	0.0814	9.5	0.0729
979	463.536	0.0722	94.03	0.0814	9.5	0.0729

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
980	463.536	0.0722	94.03	0.0814	9.5	0.0729
981	463.536	0.0722	94.03	0.0814	9.5	0.0729
982	463.536	0.0722	94.03	0.0814	9.5	0.0729
983	463.536	0.0722	94.03	0.0814	9.5	0.0729
984	463.536	0.0722	94.03	0.0814	9.5	0.0729
985	463.536	0.0722	94.03	0.0815	9.5	0.0729
986	463.536	0.0722	94.03	0.0815	9.5	0.0729
987	463.536	0.0722	94.03	0.0815	9.5	0.0729
988	463.536	0.0722	94.03	0.0815	9.5	0.0730
989	463.536	0.0722	94.03	0.0815	9.5	0.0730
990	463.536	0.0722	94.03	0.0815	9.5	0.0730
991	463.536	0.0722	94.03	0.0815	9.5	0.0730
992	463.536	0.0722	94.03	0.0815	9.5	0.0730
993	463.536	0.0722	94.03	0.0815	9.5	0.0730
994	463.536	0.0722	94.03	0.0815	9.5	0.0730
995	463.536	0.0722	94.03	0.0816	9.5	0.0730
996	463.536	0.0722	94.03	0.0816	9.5	0.0730
997	463.536	0.0723	94.03	0.0816	9.5	0.0730
998	463.536	0.0723	94.03	0.0816	9.5	0.0730
999	463.536	0.0723	94.03	0.0816	9.5	0.0730
1000	463.536	0.0723	94.03	0.0816	9.5	0.0730
1001	463.536	0.0723	94.03	0.0816	9.5	0.0730
1002	463.536	0.0723	94.03	0.0816	9.5	0.0730
1003	463.536	0.0723	94.03	0.0816	9.5	0.0730
1004	463.536	0.0723	94.03	0.0816	9.5	0.0730
1005	463.536	0.0723	94.03	0.0816	9.5	0.0730
1006	463.536	0.0723	94.03	0.0817	9.5	0.0731
1007	463.536	0.0723	94.03	0.0817	9.5	0.0731
1008	463.536	0.0723	94.03	0.0817	9.5	0.0731
1009	463.536	0.0723	94.03	0.0817	9.5	0.0731
1010	463.536	0.0723	94.03	0.0817	9.5	0.0731
1011	463.536	0.0723	94.03	0.0817	9.5	0.0731
1012	463.536	0.0723	94.03	0.0817	9.5	0.0731
1013	463.536	0.0723	94.03	0.0817	9.5	0.0731
1014	463.536	0.0723	94.03	0.0817	9.5	0.0731
1015	463.536	0.0723	94.03	0.0817	9.5	0.0731
1016	463.536	0.0724	94.03	0.0817	9.5	0.0731
1017	463.536	0.0724	94.03	0.0818	9.5	0.0731
1018	463.536	0.0724	94.03	0.0818	9.5	0.0731
1019	463.536	0.0724	94.03	0.0818	9.5	0.0731
1020	463.536	0.0724	94.03	0.0818	9.5	0.0731

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1021	463.536	0.0724	94.03	0.0818	9.5	0.0731
1022	463.536	0.0724	94.03	0.0818	9.5	0.0731
1023	463.536	0.0724	94.03	0.0818	9.5	0.0732
1024	463.536	0.0724	94.03	0.0818	9.5	0.0732
1025	463.536	0.0724	94.03	0.0818	9.5	0.0732
1026	463.536	0.0724	94.03	0.0818	9.5	0.0732
1027	463.536	0.0724	94.03	0.0819	9.5	0.0732
1028	463.536	0.0724	94.03	0.0819	9.5	0.0732
1029	463.536	0.0724	94.03	0.0819	9.5	0.0732
1030	463.536	0.0724	94.03	0.0819	9.5	0.0732
1031	463.536	0.0724	94.03	0.0819	9.5	0.0732
1032	463.536	0.0724	94.03	0.0819	9.5	0.0732
1033	463.536	0.0724	94.03	0.0819	9.5	0.0732
1034	463.536	0.0725	94.03	0.0819	9.5	0.0732
1035	463.536	0.0725	94.03	0.0819	9.5	0.0732
1036	463.536	0.0725	94.03	0.0819	9.5	0.0732
1037	463.536	0.0725	94.03	0.0819	9.5	0.0732
1038	463.536	0.0725	94.03	0.0820	9.5	0.0732
1039	463.536	0.0725	94.03	0.0820	9.5	0.0732
1040	463.536	0.0725	94.03	0.0820	9.5	0.0732
1041	463.536	0.0725	94.03	0.0820	9.5	0.0733
1042	463.536	0.0725	94.03	0.0820	9.5	0.0733
1043	463.536	0.0725	94.03	0.0820	9.5	0.0733
1044	463.536	0.0725	94.03	0.0820	9.5	0.0733
1045	463.536	0.0725	94.03	0.0820	9.5	0.0733
1046	463.536	0.0725	94.03	0.0820	9.5	0.0733
1047	463.536	0.0725	94.03	0.0820	9.5	0.0733
1048	463.536	0.0725	94.03	0.0820	9.5	0.0733
1049	463.536	0.0725	94.03	0.0821	9.5	0.0733
1050	463.536	0.0725	94.03	0.0821	9.5	0.0733
1051	463.536	0.0725	94.03	0.0821	9.5	0.0733
1052	463.536	0.0725	94.03	0.0821	9.5	0.0733
1053	463.536	0.0725	94.03	0.0821	9.5	0.0733
1054	463.536	0.0726	94.03	0.0821	9.5	0.0733
1055	463.536	0.0726	94.03	0.0821	9.5	0.0733
1056	463.536	0.0726	94.03	0.0821	9.5	0.0733
1057	463.536	0.0726	94.03	0.0821	9.5	0.0733
1058	463.536	0.0726	94.03	0.0821	9.5	0.0734
1059	463.536	0.0726	94.03	0.0822	9.5	0.0734
1060	463.536	0.0726	94.03	0.0822	9.5	0.0734
1061	463.536	0.0726	94.03	0.0822	9.5	0.0734

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1062	463.536	0.0726	94.03	0.0822	9.5	0.0734
1063	463.536	0.0726	94.03	0.0822	9.5	0.0734
1064	463.536	0.0726	94.03	0.0822	9.5	0.0734
1065	463.536	0.0726	94.03	0.0822	9.5	0.0734
1066	463.536	0.0726	94.03	0.0822	9.5	0.0734
1067	463.536	0.0726	94.03	0.0822	9.5	0.0734
1068	463.536	0.0726	94.03	0.0822	9.5	0.0734
1069	463.536	0.0726	94.03	0.0822	9.5	0.0734
1070	463.536	0.0726	94.03	0.0823	9.5	0.0734
1071	463.536	0.0726	94.03	0.0823	9.5	0.0734
1072	463.536	0.0726	94.03	0.0823	9.5	0.0734
1073	463.536	0.0727	94.03	0.0823	9.5	0.0734
1074	463.536	0.0727	94.03	0.0823	9.5	0.0734
1075	463.536	0.0727	94.03	0.0823	9.5	0.0735
1076	463.536	0.0727	94.03	0.0823	9.5	0.0735
1077	463.536	0.0727	94.03	0.0823	9.5	0.0735
1078	463.536	0.0727	94.03	0.0823	9.5	0.0735
1079	463.536	0.0727	94.03	0.0823	9.5	0.0735
1080	463.536	0.0727	94.03	0.0823	9.5	0.0735
1081	463.536	0.0727	94.03	0.0824	9.5	0.0735
1082	463.536	0.0727	94.03	0.0824	9.5	0.0735
1083	463.536	0.0727	94.03	0.0824	9.5	0.0735
1084	463.536	0.0727	94.03	0.0824	9.5	0.0735
1085	463.536	0.0727	94.03	0.0824	9.5	0.0735
1086	463.536	0.0727	94.03	0.0824	9.5	0.0735
1087	463.536	0.0727	94.03	0.0824	9.5	0.0735
1088	463.536	0.0727	94.03	0.0824	9.5	0.0735
1089	463.536	0.0727	94.03	0.0824	9.5	0.0735
1090	463.536	0.0727	94.03	0.0824	9.5	0.0735
1091	463.536	0.0727	94.03	0.0825	9.5	0.0736
1092	463.536	0.0727	94.03	0.0825	9.5	0.0736
1093	463.536	0.0728	94.03	0.0825	9.5	0.0736
1094	463.536	0.0728	94.03	0.0825	9.5	0.0736
1095	463.536	0.0728	94.03	0.0825	9.5	0.0736
1096	463.536	0.0728	94.03	0.0825	9.5	0.0736
1097	463.536	0.0728	94.03	0.0825	9.5	0.0736
1098	463.536	0.0728	94.03	0.0825	9.5	0.0736
1099	463.536	0.0728	94.03	0.0825	9.5	0.0736
1100	463.536	0.0728	94.03	0.0825	9.5	0.0736
1101	463.536	0.0728	94.03	0.0825	9.5	0.0736
1102	463.536	0.0728	94.03	0.0826	9.5	0.0736

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1103	463.536	0.0728	94.03	0.0826	9.5	0.0736
1104	463.536	0.0728	94.03	0.0826	9.5	0.0736
1105	463.536	0.0728	94.03	0.0826	9.5	0.0736
1106	463.536	0.0728	94.03	0.0826	9.5	0.0736
1107	463.536	0.0728	94.03	0.0826	9.5	0.0736
1108	463.536	0.0728	94.03	0.0826	9.5	0.0737
1109	463.536	0.0728	94.03	0.0826	9.5	0.0737
1110	463.536	0.0728	94.03	0.0826	9.5	0.0737
1111	463.536	0.0728	94.03	0.0826	9.5	0.0737
1112	463.536	0.0728	94.03	0.0826	9.5	0.0737
1113	463.536	0.0729	94.03	0.0827	9.5	0.0737
1114	463.536	0.0729	94.03	0.0827	9.5	0.0737
1115	463.536	0.0729	94.03	0.0827	9.5	0.0737
1116	463.536	0.0729	94.03	0.0827	9.5	0.0737
1117	463.536	0.0729	94.03	0.0827	9.5	0.0737
1118	463.536	0.0729	94.03	0.0827	9.5	0.0737
1119	463.536	0.0729	94.03	0.0827	9.5	0.0737
1120	463.536	0.0729	94.03	0.0827	9.5	0.0737
1121	463.536	0.0729	94.03	0.0827	9.5	0.0737
1122	463.536	0.0729	94.03	0.0827	9.5	0.0737
1123	463.536	0.0729	94.03	0.0827	9.5	0.0737
1124	463.536	0.0729	94.03	0.0828	9.5	0.0738
1125	463.536	0.0729	94.03	0.0828	9.5	0.0738
1126	463.536	0.0729	94.03	0.0828	9.5	0.0738
1127	463.536	0.0729	94.03	0.0828	9.5	0.0738
1128	463.536	0.0729	94.03	0.0828	9.5	0.0738
1129	463.536	0.0729	94.03	0.0828	9.5	0.0738
1130	463.536	0.0729	94.03	0.0828	9.5	0.0738
1131	463.536	0.0729	94.03	0.0828	9.5	0.0738
1132	463.536	0.0729	94.03	0.0828	9.5	0.0738
1133	463.536	0.0729	94.03	0.0828	9.5	0.0738
1134	463.536	0.0730	94.03	0.0829	9.5	0.0738
1135	463.536	0.0730	94.03	0.0829	9.5	0.0738
1136	463.536	0.0730	94.03	0.0829	9.5	0.0738
1137	463.536	0.0730	94.03	0.0829	9.5	0.0738
1138	463.536	0.0730	94.03	0.0829	9.5	0.0738
1139	463.536	0.0730	94.03	0.0829	9.5	0.0738
1140	463.536	0.0730	94.03	0.0829	9.5	0.0739
1141	463.536	0.0730	94.03	0.0829	9.5	0.0739
1142	463.536	0.0730	94.03	0.0829	9.5	0.0739
1143	463.536	0.0730	94.03	0.0829	9.5	0.0739

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1144	463.536	0.0730	94.03	0.0829	9.5	0.0739
1145	463.536	0.0730	94.03	0.0830	9.5	0.0739
1146	463.536	0.0730	94.03	0.0830	9.5	0.0739
1147	463.536	0.0730	94.03	0.0830	9.5	0.0739
1148	463.536	0.0730	94.03	0.0830	9.5	0.0739
1149	463.536	0.0730	94.03	0.0830	9.5	0.0739
1150	463.536	0.0730	94.03	0.0830	9.5	0.0739
1151	463.536	0.0730	94.03	0.0830	9.5	0.0739
1152	463.536	0.0730	94.03	0.0830	9.5	0.0739
1153	463.536	0.0730	94.03	0.0830	9.5	0.0739
1154	463.536	0.0730	94.03	0.0830	9.5	0.0739
1155	463.536	0.0731	94.03	0.0830	9.5	0.0739
1156	463.536	0.0731	94.03	0.0831	9.5	0.0740
1157	463.536	0.0731	94.03	0.0831	9.5	0.0740
1158	463.536	0.0731	94.03	0.0831	9.5	0.0740
1159	463.536	0.0731	94.03	0.0831	9.5	0.0740
1160	463.536	0.0731	94.03	0.0831	9.5	0.0740
1161	463.536	0.0731	94.03	0.0831	9.5	0.0740
1162	463.536	0.0731	94.03	0.0831	9.5	0.0740
1163	463.536	0.0731	94.03	0.0831	9.5	0.0740
1164	463.536	0.0731	94.03	0.0831	9.5	0.0740
1165	463.536	0.0731	94.03	0.0831	9.5	0.0740
1166	463.536	0.0731	94.03	0.0831	9.5	0.0740
1167	463.536	0.0731	94.03	0.0832	9.5	0.0740
1168	463.536	0.0731	94.03	0.0832	9.5	0.0740
1169	463.536	0.0731	94.03	0.0832	9.5	0.0740
1170	463.536	0.0731	94.03	0.0832	9.5	0.0740
1171	463.536	0.0731	94.03	0.0832	9.5	0.0740
1172	463.536	0.0731	94.03	0.0832	9.5	0.0741
1173	463.536	0.0731	94.03	0.0832	9.5	0.0741
1174	463.536	0.0731	94.03	0.0832	9.5	0.0741
1175	463.536	0.0731	94.03	0.0832	9.5	0.0741
1176	463.536	0.0732	94.03	0.0832	9.5	0.0741
1177	463.536	0.0732	94.03	0.0833	9.5	0.0741
1178	463.536	0.0732	94.03	0.0833	9.5	0.0741
1179	463.536	0.0732	94.03	0.0833	9.5	0.0741
1180	463.536	0.0732	94.03	0.0833	9.5	0.0741
1181	463.536	0.0732	94.03	0.0833	9.5	0.0741
1182	463.536	0.0732	94.03	0.0833	9.5	0.0741
1183	463.536	0.0732	94.03	0.0833	9.5	0.0741
1184	463.536	0.0732	94.03	0.0833	9.5	0.0741

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1185	463.536	0.0732	94.03	0.0833	9.5	0.0741
1186	463.536	0.0732	94.03	0.0833	9.5	0.0741
1187	463.536	0.0732	94.03	0.0833	9.5	0.0741
1188	463.536	0.0732	94.03	0.0834	9.5	0.0742
1189	463.536	0.0732	94.03	0.0834	9.5	0.0742
1190	463.536	0.0732	94.03	0.0834	9.5	0.0742
1191	463.536	0.0732	94.03	0.0834	9.5	0.0742
1192	463.536	0.0732	94.03	0.0834	9.5	0.0742
1193	463.536	0.0732	94.03	0.0834	9.5	0.0742
1194	463.536	0.0732	94.03	0.0834	9.5	0.0742
1195	463.536	0.0732	94.03	0.0834	9.5	0.0742
1196	463.536	0.0732	94.03	0.0834	9.5	0.0742
1197	463.536	0.0732	94.03	0.0834	9.5	0.0742
1198	463.536	0.0733	94.03	0.0834	9.5	0.0742
1199	463.536	0.0733	94.03	0.0835	9.5	0.0742
1200	463.536	0.0733	94.03	0.0835	9.5	0.0742
1201	463.536	0.0733	94.03	0.0835	9.5	0.0742
1202	463.536	0.0733	94.03	0.0835	9.5	0.0742
1203	463.536	0.0733	94.03	0.0835	9.5	0.0743
1204	463.536	0.0733	94.03	0.0835	9.5	0.0743
1205	463.536	0.0733	94.03	0.0835	9.5	0.0743
1206	463.536	0.0733	94.03	0.0835	9.5	0.0743
1207	463.536	0.0733	94.03	0.0835	9.5	0.0743
1208	463.536	0.0733	94.03	0.0835	9.5	0.0743
1209	463.536	0.0733	94.03	0.0835	9.5	0.0743
1210	463.536	0.0733	94.03	0.0836	9.5	0.0743
1211	463.536	0.0733	94.03	0.0836	9.5	0.0743
1212	463.536	0.0733	94.03	0.0836	9.5	0.0743
1213	463.536	0.0733	94.03	0.0836	9.5	0.0743
1214	463.536	0.0733	94.03	0.0836	9.5	0.0743
1215	463.536	0.0733	94.03	0.0836	9.5	0.0743
1216	463.536	0.0733	94.03	0.0836	9.5	0.0743
1217	463.536	0.0733	94.03	0.0836	9.5	0.0743
1218	463.536	0.0733	94.03	0.0836	9.5	0.0743
1219	463.536	0.0733	94.03	0.0836	9.5	0.0744
1220	463.536	0.0734	94.03	0.0836	9.5	0.0744
1221	463.536	0.0734	94.03	0.0837	9.5	0.0744
1222	463.536	0.0734	94.03	0.0837	9.5	0.0744
1223	463.536	0.0734	94.03	0.0837	9.5	0.0744
1224	463.536	0.0734	94.03	0.0837	9.5	0.0744
1225	463.536	0.0734	94.03	0.0837	9.5	0.0744

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1226	463.536	0.0734	94.03	0.0837	9.5	0.0744
1227	463.536	0.0734	94.03	0.0837	9.5	0.0744
1228	463.536	0.0734	94.03	0.0837	9.5	0.0744
1229	463.536	0.0734	94.03	0.0837	9.5	0.0744
1230	463.536	0.0734	94.03	0.0837	9.5	0.0744
1231	463.536	0.0734	94.03	0.0838	9.5	0.0744
1232	463.536	0.0734	94.03	0.0838	9.5	0.0744
1233	463.536	0.0734	94.03	0.0838	9.5	0.0744
1234	463.536	0.0734	94.03	0.0838	9.5	0.0745
1235	463.536	0.0734	94.03	0.0838	9.5	0.0745
1236	463.536	0.0734	94.03	0.0838	9.5	0.0745
1237	463.536	0.0734	94.03	0.0838	9.5	0.0745
1238	463.536	0.0734	94.03	0.0838	9.5	0.0745
1239	463.536	0.0734	94.03	0.0838	9.5	0.0745
1240	463.536	0.0734	94.03	0.0838	9.5	0.0745
1241	463.536	0.0735	94.03	0.0839	9.5	0.0745
1242	463.536	0.0735	94.03	0.0839	9.5	0.0745
1243	463.536	0.0735	94.03	0.0839	9.5	0.0745
1244	463.536	0.0735	94.03	0.0839	9.5	0.0745
1245	463.536	0.0735	94.03	0.0839	9.5	0.0745
1246	463.536	0.0735	94.03	0.0839	9.5	0.0745
1247	463.536	0.0735	94.03	0.0839	9.5	0.0745
1248	463.536	0.0735	94.03	0.0839	9.5	0.0745
1249	463.536	0.0735	94.03	0.0839	9.5	0.0746
1250	463.536	0.0735	94.03	0.0839	9.5	0.0746
1251	463.536	0.0735	94.03	0.0840	9.5	0.0746
1252	463.536	0.0735	94.03	0.0840	9.5	0.0746
1253	463.536	0.0735	94.03	0.0840	9.5	0.0746
1254	463.536	0.0735	94.03	0.0840	9.5	0.0746
1255	463.536	0.0735	94.03	0.0840	9.5	0.0746
1256	463.536	0.0735	94.03	0.0840	9.5	0.0746
1257	463.536	0.0735	94.03	0.0840	9.5	0.0746
1258	463.536	0.0735	94.03	0.0840	9.5	0.0746
1259	463.536	0.0735	94.03	0.0840	9.5	0.0746
1260	463.536	0.0735	94.03	0.0841	9.5	0.0746
1261	463.536	0.0736	94.03	0.0841	9.5	0.0746
1262	463.536	0.0736	94.03	0.0841	9.5	0.0746
1263	463.536	0.0736	94.03	0.0841	9.5	0.0746
1264	463.536	0.0736	94.03	0.0841	9.5	0.0747
1265	463.536	0.0736	94.03	0.0841	9.5	0.0747
1266	463.536	0.0736	94.03	0.0841	9.5	0.0747

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1267	463.536	0.0736	94.03	0.0841	9.5	0.0747
1268	463.536	0.0736	94.03	0.0841	9.5	0.0747
1269	463.536	0.0736	94.03	0.0841	9.5	0.0747
1270	463.536	0.0736	94.03	0.0842	9.5	0.0747
1271	463.536	0.0736	94.03	0.0842	9.5	0.0747
1272	463.536	0.0736	94.03	0.0842	9.5	0.0747
1273	463.536	0.0736	94.03	0.0842	9.5	0.0747
1274	463.536	0.0736	94.03	0.0842	9.5	0.0747
1275	463.536	0.0736	94.03	0.0842	9.5	0.0747
1276	463.536	0.0736	94.03	0.0842	9.5	0.0747
1277	463.536	0.0736	94.03	0.0842	9.5	0.0747
1278	463.536	0.0736	94.03	0.0842	9.5	0.0747
1279	463.536	0.0736	94.03	0.0842	9.5	0.0748
1280	463.536	0.0736	94.03	0.0843	9.5	0.0748
1281	463.536	0.0736	94.03	0.0843	9.5	0.0748
1282	463.536	0.0737	94.03	0.0843	9.5	0.0748
1283	463.536	0.0737	94.03	0.0843	9.5	0.0748
1284	463.536	0.0737	94.03	0.0843	9.5	0.0748
1285	463.536	0.0737	94.03	0.0843	9.5	0.0748
1286	463.536	0.0737	94.03	0.0843	9.5	0.0748
1287	463.536	0.0737	94.03	0.0843	9.5	0.0748
1288	463.536	0.0737	94.03	0.0843	9.5	0.0748
1289	463.536	0.0737	94.03	0.0843	9.5	0.0748
1290	463.536	0.0737	94.03	0.0844	9.5	0.0748
1291	463.536	0.0737	94.03	0.0844	9.5	0.0748
1292	463.536	0.0737	94.03	0.0844	9.5	0.0748
1293	463.536	0.0737	94.03	0.0844	9.5	0.0748
1294	463.536	0.0737	94.03	0.0844	9.5	0.0749
1295	463.536	0.0737	94.03	0.0844	9.5	0.0749
1296	463.536	0.0737	94.03	0.0844	9.5	0.0749
1297	463.536	0.0737	94.03	0.0844	9.5	0.0749
1298	463.536	0.0737	94.03	0.0844	9.5	0.0749
1299	463.536	0.0737	94.03	0.0845	9.5	0.0749
1300	463.536	0.0737	94.03	0.0845	9.5	0.0749
1301	463.536	0.0737	94.03	0.0845	9.5	0.0749
1302	463.536	0.0737	94.03	0.0845	9.5	0.0749
1303	463.536	0.0738	94.03	0.0845	9.5	0.0749
1304	463.536	0.0738	94.03	0.0845	9.5	0.0749
1305	463.536	0.0738	94.03	0.0845	9.5	0.0749
1306	463.536	0.0738	94.03	0.0845	9.5	0.0749
1307	463.536	0.0738	94.03	0.0845	9.5	0.0749

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1308	463.536	0.0738	94.03	0.0845	9.5	0.0750
1309	463.536	0.0738	94.03	0.0846	9.5	0.0750
1310	463.536	0.0738	94.03	0.0846	9.5	0.0750
1311	463.536	0.0738	94.03	0.0846	9.5	0.0750
1312	463.536	0.0738	94.03	0.0846	9.5	0.0750
1313	463.536	0.0738	94.03	0.0846	9.5	0.0750
1314	463.536	0.0738	94.03	0.0846	9.5	0.0750
1315	463.536	0.0738	94.03	0.0846	9.5	0.0750
1316	463.536	0.0738	94.03	0.0846	9.5	0.0750
1317	463.536	0.0738	94.03	0.0846	9.5	0.0750
1318	463.536	0.0738	94.03	0.0846	9.5	0.0750
1319	463.536	0.0738	94.03	0.0847	9.5	0.0750
1320	463.536	0.0738	94.03	0.0847	9.5	0.0750
1321	463.536	0.0738	94.03	0.0847	9.5	0.0750
1322	463.536	0.0738	94.03	0.0847	9.5	0.0750
1323	463.536	0.0738	94.03	0.0847	9.5	0.0751
1324	463.536	0.0738	94.03	0.0847	9.5	0.0751
1325	463.536	0.0739	94.03	0.0847	9.5	0.0751
1326	463.536	0.0739	94.03	0.0847	9.5	0.0751
1327	463.536	0.0739	94.03	0.0847	9.5	0.0751
1328	463.536	0.0739	94.03	0.0847	9.5	0.0751
1329	463.536	0.0739	94.03	0.0848	9.5	0.0751
1330	463.536	0.0739	94.03	0.0848	9.5	0.0751
1331	463.536	0.0739	94.03	0.0848	9.5	0.0751
1332	463.536	0.0739	94.03	0.0848	9.5	0.0751
1333	463.536	0.0739	94.03	0.0848	9.5	0.0751
1334	463.536	0.0739	94.03	0.0848	9.5	0.0751
1335	463.536	0.0739	94.03	0.0848	9.5	0.0751
1336	463.536	0.0739	94.03	0.0848	9.5	0.0751
1337	463.536	0.0739	94.03	0.0848	9.5	0.0752
1338	463.536	0.0739	94.03	0.0849	9.5	0.0752
1339	463.536	0.0739	94.03	0.0849	9.5	0.0752
1340	463.536	0.0739	94.03	0.0849	9.5	0.0752
1341	463.536	0.0739	94.03	0.0849	9.5	0.0752
1342	463.536	0.0739	94.03	0.0849	9.5	0.0752
1343	463.536	0.0739	94.03	0.0849	9.5	0.0752
1344	463.536	0.0739	94.03	0.0849	9.5	0.0752
1345	463.536	0.0739	94.03	0.0849	9.5	0.0752
1346	463.536	0.0739	94.03	0.0849	9.5	0.0752
1347	463.536	0.0740	94.03	0.0849	9.5	0.0752
1348	463.536	0.0740	94.03	0.0850	9.5	0.0752

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1349	463.536	0.0740	94.03	0.0850	9.5	0.0752
1350	463.536	0.0740	94.03	0.0850	9.5	0.0752
1351	463.536	0.0740	94.03	0.0850	9.5	0.0753
1352	463.536	0.0740	94.03	0.0850	9.5	0.0753
1353	463.536	0.0740	94.03	0.0850	9.5	0.0753
1354	463.536	0.0740	94.03	0.0850	9.5	0.0753
1355	463.536	0.0740	94.03	0.0850	9.5	0.0753
1356	463.536	0.0740	94.03	0.0850	9.5	0.0753
1357	463.536	0.0740	94.03	0.0850	9.5	0.0753
1358	463.536	0.0740	94.03	0.0851	9.5	0.0753
1359	463.536	0.0740	94.03	0.0851	9.5	0.0753
1360	463.536	0.0740	94.03	0.0851	9.5	0.0753
1361	463.536	0.0740	94.03	0.0851	9.5	0.0753
1362	463.536	0.0740	94.03	0.0851	9.5	0.0753
1363	463.536	0.0740	94.03	0.0851	9.5	0.0753
1364	463.536	0.0740	94.03	0.0851	9.5	0.0753
1365	463.536	0.0740	94.03	0.0851	9.5	0.0754
1366	463.536	0.0740	94.03	0.0851	9.5	0.0754
1367	463.536	0.0740	94.03	0.0851	9.5	0.0754
1368	463.536	0.0740	94.03	0.0852	9.5	0.0754
1369	463.536	0.0741	94.03	0.0852	9.5	0.0754
1370	463.536	0.0741	94.03	0.0852	9.5	0.0754
1371	463.536	0.0741	94.03	0.0852	9.5	0.0754
1372	463.536	0.0741	94.03	0.0852	9.5	0.0754
1373	463.536	0.0741	94.03	0.0852	9.5	0.0754
1374	463.536	0.0741	94.03	0.0852	9.5	0.0754
1375	463.536	0.0741	94.03	0.0852	9.5	0.0754
1376	463.536	0.0741	94.03	0.0852	9.5	0.0754
1377	463.536	0.0741	94.03	0.0852	9.5	0.0754
1378	463.536	0.0741	94.03	0.0853	9.5	0.0754
1379	463.536	0.0741	94.03	0.0853	9.5	0.0755
1380	463.536	0.0741	94.03	0.0853	9.5	0.0755
1381	463.536	0.0741	94.03	0.0853	9.5	0.0755
1382	463.536	0.0741	94.03	0.0853	9.5	0.0755
1383	463.536	0.0741	94.03	0.0853	9.5	0.0755
1384	463.536	0.0741	94.03	0.0853	9.5	0.0755
1385	463.536	0.0741	94.03	0.0853	9.5	0.0755
1386	463.536	0.0741	94.03	0.0853	9.5	0.0755
1387	463.536	0.0741	94.03	0.0854	9.5	0.0755
1388	463.536	0.0741	94.03	0.0854	9.5	0.0755
1389	463.536	0.0741	94.03	0.0854	9.5	0.0755

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1390	463.536	0.0741	94.03	0.0854	9.5	0.0755
1391	463.536	0.0742	94.03	0.0854	9.5	0.0755
1392	463.536	0.0742	94.03	0.0854	9.5	0.0755
1393	463.536	0.0742	94.03	0.0854	9.5	0.0756
1394	463.536	0.0742	94.03	0.0854	9.5	0.0756
1395	463.536	0.0742	94.03	0.0854	9.5	0.0756
1396	463.536	0.0742	94.03	0.0854	9.5	0.0756
1397	463.536	0.0742	94.03	0.0855	9.5	0.0756
1398	463.536	0.0742	94.03	0.0855	9.5	0.0756
1399	463.536	0.0742	94.03	0.0855	9.5	0.0756
1400	463.536	0.0742	94.03	0.0855	9.5	0.0756
1401	463.536	0.0742	94.03	0.0855	9.5	0.0756
1402	463.536	0.0742	94.03	0.0855	9.5	0.0756
1403	463.536	0.0742	94.03	0.0855	9.5	0.0756
1404	463.536	0.0742	94.03	0.0855	9.5	0.0756
1405	463.536	0.0742	94.03	0.0855	9.5	0.0756
1406	463.536	0.0742	94.03	0.0855	9.5	0.0757
1407	463.536	0.0742	94.03	0.0856	9.5	0.0757
1408	463.536	0.0742	94.03	0.0856	9.5	0.0757
1409	463.536	0.0742	94.03	0.0856	9.5	0.0757
1410	463.536	0.0742	94.03	0.0856	9.5	0.0757
1411	463.536	0.0742	94.03	0.0856	9.5	0.0757
1412	463.536	0.0742	94.03	0.0856	9.5	0.0757
1413	463.536	0.0742	94.03	0.0856	9.5	0.0757
1414	463.536	0.0743	94.03	0.0856	9.5	0.0757
1415	463.536	0.0743	94.03	0.0856	9.5	0.0757
1416	463.536	0.0743	94.03	0.0856	9.5	0.0757
1417	463.536	0.0743	94.03	0.0857	9.5	0.0757
1418	463.536	0.0743	94.03	0.0857	9.5	0.0757
1419	463.536	0.0743	94.03	0.0857	9.5	0.0757
1420	463.536	0.0743	94.03	0.0857	9.5	0.0758
1421	463.536	0.0743	94.03	0.0857	9.5	0.0758
1422	463.536	0.0743	94.03	0.0857	9.5	0.0758
1423	463.536	0.0743	94.03	0.0857	9.5	0.0758
1424	463.536	0.0743	94.03	0.0857	9.5	0.0758
1425	463.536	0.0743	94.03	0.0857	9.5	0.0758
1426	463.536	0.0743	94.03	0.0857	9.5	0.0758
1427	463.536	0.0743	94.03	0.0858	9.5	0.0758
1428	463.536	0.0743	94.03	0.0858	9.5	0.0758
1429	463.536	0.0743	94.03	0.0858	9.5	0.0758
1430	463.536	0.0743	94.03	0.0858	9.5	0.0758

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1431	463.536	0.0743	94.03	0.0858	9.5	0.0758
1432	463.536	0.0743	94.03	0.0858	9.5	0.0758
1433	463.536	0.0743	94.03	0.0858	9.5	0.0758
1434	463.536	0.0743	94.03	0.0858	9.5	0.0759
1435	463.536	0.0743	94.03	0.0858	9.5	0.0759
1436	463.536	0.0743	94.03	0.0858	9.5	0.0759
1437	463.536	0.0744	94.03	0.0859	9.5	0.0759
1438	463.536	0.0744	94.03	0.0859	9.5	0.0759
1439	463.536	0.0744	94.03	0.0859	9.5	0.0759
1440	463.536	0.0744	94.03	0.0859	9.5	0.0759
1441	463.536	0.0744	94.03	0.0859	9.5	0.0759
1442	463.536	0.0744	94.03	0.0859	9.5	0.0759
1443	463.536	0.0744	94.03	0.0859	9.5	0.0759
1444	463.536	0.0744	94.03	0.0859	9.5	0.0759
1445	463.536	0.0744	94.03	0.0859	9.5	0.0759
1446	463.536	0.0744	94.03	0.0859	9.5	0.0759
1447	463.536	0.0744	94.03	0.0860	9.5	0.0760
1448	463.536	0.0744	94.03	0.0860	9.5	0.0760
1449	463.536	0.0744	94.03	0.0860	9.5	0.0760
1450	463.536	0.0744	94.03	0.0860	9.5	0.0760
1451	463.536	0.0744	94.03	0.0860	9.5	0.0760
1452	463.536	0.0744	94.03	0.0860	9.5	0.0760
1453	463.536	0.0744	94.03	0.0860	9.5	0.0760
1454	463.536	0.0744	94.03	0.0860	9.5	0.0760
1455	463.536	0.0744	94.03	0.0860	9.5	0.0760
1456	463.536	0.0744	94.03	0.0861	9.5	0.0760
1457	463.536	0.0744	94.03	0.0861	9.5	0.0760
1458	463.536	0.0744	94.03	0.0861	9.5	0.0760
1459	463.536	0.0744	94.03	0.0861	9.5	0.0760
1460	463.536	0.0744	94.03	0.0861	9.5	0.0761
1461	463.536	0.0745	94.03	0.0861	9.5	0.0761
1462	463.536	0.0745	94.03	0.0861	9.5	0.0761
1463	463.536	0.0745	94.03	0.0861	9.5	0.0761
1464	463.536	0.0745	94.03	0.0861	9.5	0.0761
1465	463.536	0.0745	94.03	0.0861	9.5	0.0761
1466	463.536	0.0745	94.03	0.0862	9.5	0.0761
1467	463.536	0.0745	94.03	0.0862	9.5	0.0761
1468	463.536	0.0745	94.03	0.0862	9.5	0.0761
1469	463.536	0.0745	94.03	0.0862	9.5	0.0761
1470	463.536	0.0745	94.03	0.0862	9.5	0.0761
1471	463.536	0.0745	94.03	0.0862	9.5	0.0761

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1472	463.536	0.0745	94.03	0.0862	9.5	0.0761
1473	463.536	0.0745	94.03	0.0862	9.5	0.0761
1474	463.536	0.0745	94.03	0.0862	9.5	0.0762
1475	463.536	0.0745	94.03	0.0862	9.5	0.0762
1476	463.536	0.0745	94.03	0.0863	9.5	0.0762
1477	463.536	0.0745	94.03	0.0863	9.5	0.0762
1478	463.536	0.0745	94.03	0.0863	9.5	0.0762
1479	463.536	0.0745	94.03	0.0863	9.5	0.0762
1480	463.536	0.0745	94.03	0.0863	9.5	0.0762
1481	463.536	0.0745	94.03	0.0863	9.5	0.0762
1482	463.536	0.0745	94.03	0.0863	9.5	0.0762
1483	463.536	0.0745	94.03	0.0863	9.5	0.0762
1484	463.536	0.0745	94.03	0.0863	9.5	0.0762
1485	463.536	0.0746	94.03	0.0863	9.5	0.0762
1486	463.536	0.0746	94.03	0.0864	9.5	0.0762
1487	463.536	0.0746	94.03	0.0864	9.5	0.0763
1488	463.536	0.0746	94.03	0.0864	9.5	0.0763
1489	463.536	0.0746	94.03	0.0864	9.5	0.0763
1490	463.536	0.0746	94.03	0.0864	9.5	0.0763
1491	463.536	0.0746	94.03	0.0864	9.5	0.0763
1492	463.536	0.0746	94.03	0.0864	9.5	0.0763
1493	463.536	0.0746	94.03	0.0864	9.5	0.0763
1494	463.536	0.0746	94.03	0.0864	9.5	0.0763
1495	463.536	0.0746	94.03	0.0864	9.5	0.0763
1496	463.536	0.0746	94.03	0.0865	9.5	0.0763
1497	463.536	0.0746	94.03	0.0865	9.5	0.0763
1498	463.536	0.0746	94.03	0.0865	9.5	0.0763
1499	463.536	0.0746	94.03	0.0865	9.5	0.0763
1500	463.536	0.0746	94.03	0.0865	9.5	0.0764
1501	463.536	0.0746	94.03	0.0865	9.5	0.0764
1502	463.536	0.0746	94.03	0.0865	9.5	0.0764
1503	463.536	0.0746	94.03	0.0865	9.5	0.0764
1504	463.536	0.0746	94.03	0.0865	9.5	0.0764
1505	463.536	0.0746	94.03	0.0865	9.5	0.0764
1506	463.536	0.0746	94.03	0.0866	9.5	0.0764
1507	463.536	0.0746	94.03	0.0866	9.5	0.0764
1508	463.536	0.0746	94.03	0.0866	9.5	0.0764
1509	463.536	0.0747	94.03	0.0866	9.5	0.0764
1510	463.536	0.0747	94.03	0.0866	9.5	0.0764
1511	463.536	0.0747	94.03	0.0866	9.5	0.0764
1512	463.536	0.0747	94.03	0.0866	9.5	0.0764

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1513	463.536	0.0747	94.03	0.0866	9.5	0.0765
1514	463.536	0.0747	94.03	0.0866	9.5	0.0765
1515	463.536	0.0747	94.03	0.0866	9.5	0.0765
1516	463.536	0.0747	94.03	0.0867	9.5	0.0765
1517	463.536	0.0747	94.03	0.0867	9.5	0.0765
1518	463.536	0.0747	94.03	0.0867	9.5	0.0765
1519	463.536	0.0747	94.03	0.0867	9.5	0.0765
1520	463.536	0.0747	94.03	0.0867	9.5	0.0765
1521	463.536	0.0747	94.03	0.0867	9.5	0.0765
1522	463.536	0.0747	94.03	0.0867	9.5	0.0765
1523	463.536	0.0747	94.03	0.0867	9.5	0.0765
1524	463.536	0.0747	94.03	0.0867	9.5	0.0765
1525	463.536	0.0747	94.03	0.0867	9.5	0.0765
1526	463.536	0.0747	94.03	0.0868	9.5	0.0766
1527	463.536	0.0747	94.03	0.0868	9.5	0.0766
1528	463.536	0.0747	94.03	0.0868	9.5	0.0766
1529	463.536	0.0747	94.03	0.0868	9.5	0.0766
1530	463.536	0.0747	94.03	0.0868	9.5	0.0766
1531	463.536	0.0747	94.03	0.0868	9.5	0.0766
1532	463.536	0.0747	94.03	0.0868	9.5	0.0766
1533	463.536	0.0747	94.03	0.0868	9.5	0.0766
1534	463.536	0.0748	94.03	0.0868	9.5	0.0766
1535	463.536	0.0748	94.03	0.0868	9.5	0.0766
1536	463.536	0.0748	94.03	0.0869	9.5	0.0766
1537	463.536	0.0748	94.03	0.0869	9.5	0.0766
1538	463.536	0.0748	94.03	0.0869	9.5	0.0767
1539	463.536	0.0748	94.03	0.0869	9.5	0.0767
1540	463.536	0.0748	94.03	0.0869	9.5	0.0767
1541	463.536	0.0748	94.03	0.0869	9.5	0.0767
1542	463.536	0.0748	94.03	0.0869	9.5	0.0767
1543	463.536	0.0748	94.03	0.0869	9.5	0.0767
1544	463.536	0.0748	94.03	0.0869	9.5	0.0767
1545	463.536	0.0748	94.03	0.0869	9.5	0.0767
1546	463.536	0.0748	94.03	0.0870	9.5	0.0767
1547	463.536	0.0748	94.03	0.0870	9.5	0.0767
1548	463.536	0.0748	94.03	0.0870	9.5	0.0767
1549	463.536	0.0748	94.03	0.0870	9.5	0.0767
1550	463.536	0.0748	94.03	0.0870	9.5	0.0767
1551	463.536	0.0748	94.03	0.0870	9.5	0.0768
1552	463.536	0.0748	94.03	0.0870	9.5	0.0768
1553	463.536	0.0748	94.03	0.0870	9.5	0.0768

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1554	463.536	0.0748	94.03	0.0870	9.5	0.0768
1555	463.536	0.0748	94.03	0.0870	9.5	0.0768
1556	463.536	0.0748	94.03	0.0871	9.5	0.0768
1557	463.536	0.0748	94.03	0.0871	9.5	0.0768
1558	463.536	0.0749	94.03	0.0871	9.5	0.0768
1559	463.536	0.0749	94.03	0.0871	9.5	0.0768
1560	463.536	0.0749	94.03	0.0871	9.5	0.0768
1561	463.536	0.0749	94.03	0.0871	9.5	0.0768
1562	463.536	0.0749	94.03	0.0871	9.5	0.0768
1563	463.536	0.0749	94.03	0.0871	9.5	0.0768
1564	463.536	0.0749	94.03	0.0871	9.5	0.0769
1565	463.536	0.0749	94.03	0.0871	9.5	0.0769
1566	463.536	0.0749	94.03	0.0872	9.5	0.0769
1567	463.536	0.0749	94.03	0.0872	9.5	0.0769
1568	463.536	0.0749	94.03	0.0872	9.5	0.0769
1569	463.536	0.0749	94.03	0.0872	9.5	0.0769
1570	463.536	0.0749	94.03	0.0872	9.5	0.0769
1571	463.536	0.0749	94.03	0.0872	9.5	0.0769
1572	463.536	0.0749	94.03	0.0872	9.5	0.0769
1573	463.536	0.0749	94.03	0.0872	9.5	0.0769
1574	463.536	0.0749	94.03	0.0872	9.5	0.0769
1575	463.536	0.0749	94.03	0.0872	9.5	0.0769
1576	463.536	0.0749	94.03	0.0873	9.5	0.0770
1577	463.536	0.0749	94.03	0.0873	9.5	0.0770
1578	463.536	0.0749	94.03	0.0873	9.5	0.0770
1579	463.536	0.0749	94.03	0.0873	9.5	0.0770
1580	463.536	0.0749	94.03	0.0873	9.5	0.0770
1581	463.536	0.0749	94.03	0.0873	9.5	0.0770
1582	463.536	0.0749	94.03	0.0873	9.5	0.0770
1583	463.536	0.0749	94.03	0.0873	9.5	0.0770
1584	463.536	0.0750	94.03	0.0873	9.5	0.0770
1585	463.536	0.0750	94.03	0.0873	9.5	0.0770
1586	463.536	0.0750	94.03	0.0874	9.5	0.0770
1587	463.536	0.0750	94.03	0.0874	9.5	0.0770
1588	463.536	0.0750	94.03	0.0874	9.5	0.0770
1589	463.536	0.0750	94.03	0.0874	9.5	0.0771
1590	463.536	0.0750	94.03	0.0874	9.5	0.0771
1591	463.536	0.0750	94.03	0.0874	9.5	0.0771
1592	463.536	0.0750	94.03	0.0874	9.5	0.0771
1593	463.536	0.0750	94.03	0.0874	9.5	0.0771
1594	463.536	0.0750	94.03	0.0874	9.5	0.0771

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1595	463.536	0.0750	94.03	0.0874	9.5	0.0771
1596	463.536	0.0750	94.03	0.0875	9.5	0.0771
1597	463.536	0.0750	94.03	0.0875	9.5	0.0771
1598	463.536	0.0750	94.03	0.0875	9.5	0.0771
1599	463.536	0.0750	94.03	0.0875	9.5	0.0771
1600	463.536	0.0750	94.03	0.0875	9.5	0.0771
1601	463.536	0.0750	94.03	0.0875	9.5	0.0772
1602	463.536	0.0750	94.03	0.0875	9.5	0.0772
1603	463.536	0.0750	94.03	0.0875	9.5	0.0772
1604	463.536	0.0750	94.03	0.0875	9.5	0.0772
1605	463.536	0.0750	94.03	0.0875	9.5	0.0772
1606	463.536	0.0750	94.03	0.0876	9.5	0.0772
1607	463.536	0.0750	94.03	0.0876	9.5	0.0772
1608	463.536	0.0750	94.03	0.0876	9.5	0.0772
1609	463.536	0.0751	94.03	0.0876	9.5	0.0772
1610	463.536	0.0751	94.03	0.0876	9.5	0.0772
1611	463.536	0.0751	94.03	0.0876	9.5	0.0772
1612	463.536	0.0751	94.03	0.0876	9.5	0.0772
1613	463.536	0.0751	94.03	0.0876	9.5	0.0772
1614	463.536	0.0751	94.03	0.0876	9.5	0.0773
1615	463.536	0.0751	94.03	0.0876	9.5	0.0773
1616	463.536	0.0751	94.03	0.0877	9.5	0.0773
1617	463.536	0.0751	94.03	0.0877	9.5	0.0773
1618	463.536	0.0751	94.03	0.0877	9.5	0.0773
1619	463.536	0.0751	94.03	0.0877	9.5	0.0773
1620	463.536	0.0751	94.03	0.0877	9.5	0.0773
1621	463.536	0.0751	94.03	0.0877	9.5	0.0773
1622	463.536	0.0751	94.03	0.0877	9.5	0.0773
1623	463.536	0.0751	94.03	0.0877	9.5	0.0773
1624	463.536	0.0751	94.03	0.0877	9.5	0.0773
1625	463.536	0.0751	94.03	0.0877	9.5	0.0773
1626	463.536	0.0751	94.03	0.0878	9.5	0.0774
1627	463.536	0.0751	94.03	0.0878	9.5	0.0774
1628	463.536	0.0751	94.03	0.0878	9.5	0.0774
1629	463.536	0.0751	94.03	0.0878	9.5	0.0774
1630	463.536	0.0751	94.03	0.0878	9.5	0.0774
1631	463.536	0.0751	94.03	0.0878	9.5	0.0774
1632	463.536	0.0751	94.03	0.0878	9.5	0.0774
1633	463.536	0.0751	94.03	0.0878	9.5	0.0774
1634	463.536	0.0751	94.03	0.0878	9.5	0.0774
1635	463.536	0.0752	94.03	0.0878	9.5	0.0774

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1636	463.536	0.0752	94.03	0.0879	9.5	0.0774
1637	463.536	0.0752	94.03	0.0879	9.5	0.0774
1638	463.536	0.0752	94.03	0.0879	9.5	0.0775
1639	463.536	0.0752	94.03	0.0879	9.5	0.0775
1640	463.536	0.0752	94.03	0.0879	9.5	0.0775
1641	463.536	0.0752	94.03	0.0879	9.5	0.0775
1642	463.536	0.0752	94.03	0.0879	9.5	0.0775
1643	463.536	0.0752	94.03	0.0879	9.5	0.0775
1644	463.536	0.0752	94.03	0.0879	9.5	0.0775
1645	463.536	0.0752	94.03	0.0879	9.5	0.0775
1646	463.536	0.0752	94.03	0.0880	9.5	0.0775
1647	463.536	0.0752	94.03	0.0880	9.5	0.0775
1648	463.536	0.0752	94.03	0.0880	9.5	0.0775
1649	463.536	0.0752	94.03	0.0880	9.5	0.0775
1650	463.536	0.0752	94.03	0.0880	9.5	0.0776
1651	463.536	0.0752	94.03	0.0880	9.5	0.0776
1652	463.536	0.0752	94.03	0.0880	9.5	0.0776
1653	463.536	0.0752	94.03	0.0880	9.5	0.0776
1654	463.536	0.0752	94.03	0.0880	9.5	0.0776
1655	463.536	0.0752	94.03	0.0880	9.5	0.0776
1656	463.536	0.0752	94.03	0.0881	9.5	0.0776
1657	463.536	0.0752	94.03	0.0881	9.5	0.0776
1658	463.536	0.0752	94.03	0.0881	9.5	0.0776
1659	463.536	0.0752	94.03	0.0881	9.5	0.0776
1660	463.536	0.0752	94.03	0.0881	9.5	0.0776
1661	463.536	0.0752	94.03	0.0881	9.5	0.0776
1662	463.536	0.0753	94.03	0.0881	9.5	0.0777
1663	463.536	0.0753	94.03	0.0881	9.5	0.0777
1664	463.536	0.0753	94.03	0.0881	9.5	0.0777
1665	463.536	0.0753	94.03	0.0881	9.5	0.0777
1666	463.536	0.0753	94.03	0.0882	9.5	0.0777
1667	463.536	0.0753	94.03	0.0882	9.5	0.0777
1668	463.536	0.0753	94.03	0.0882	9.5	0.0777
1669	463.536	0.0753	94.03	0.0882	9.5	0.0777
1670	463.536	0.0753	94.03	0.0882	9.5	0.0777
1671	463.536	0.0753	94.03	0.0882	9.5	0.0777
1672	463.536	0.0753	94.03	0.0882	9.5	0.0777
1673	463.536	0.0753	94.03	0.0882	9.5	0.0777
1674	463.536	0.0753	94.03	0.0882	9.5	0.0778
1675	463.536	0.0753	94.03	0.0882	9.5	0.0778
1676	463.536	0.0753	94.03	0.0883	9.5	0.0778

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1677	463.536	0.0753	94.03	0.0883	9.5	0.0778
1678	463.536	0.0753	94.03	0.0883	9.5	0.0778
1679	463.536	0.0753	94.03	0.0883	9.5	0.0778
1680	463.536	0.0753	94.03	0.0883	9.5	0.0778
1681	463.536	0.0753	94.03	0.0883	9.5	0.0778
1682	463.536	0.0753	94.03	0.0883	9.5	0.0778
1683	463.536	0.0753	94.03	0.0883	9.5	0.0778
1684	463.536	0.0753	94.03	0.0883	9.5	0.0778
1685	463.536	0.0753	94.03	0.0883	9.5	0.0778
1686	463.536	0.0753	94.03	0.0884	9.5	0.0779
1687	463.536	0.0753	94.03	0.0884	9.5	0.0779
1688	463.536	0.0754	94.03	0.0884	9.5	0.0779
1689	463.536	0.0754	94.03	0.0884	9.5	0.0779
1690	463.536	0.0754	94.03	0.0884	9.5	0.0779
1691	463.536	0.0754	94.03	0.0884	9.5	0.0779
1692	463.536	0.0754	94.03	0.0884	9.5	0.0779
1693	463.536	0.0754	94.03	0.0884	9.5	0.0779
1694	463.536	0.0754	94.03	0.0884	9.5	0.0779
1695	463.536	0.0754	94.03	0.0884	9.5	0.0779
1696	463.536	0.0754	94.03	0.0884	9.5	0.0779
1697	463.536	0.0754	94.03	0.0885	9.5	0.0779
1698	463.536	0.0754	94.03	0.0885	9.5	0.0780
1699	463.536	0.0754	94.03	0.0885	9.5	0.0780
1700	463.536	0.0754	94.03	0.0885	9.5	0.0780
1701	463.536	0.0754	94.03	0.0885	9.5	0.0780
1702	463.536	0.0754	94.03	0.0885	9.5	0.0780
1703	463.536	0.0754	94.03	0.0885	9.5	0.0780
1704	463.536	0.0754	94.03	0.0885	9.5	0.0780
1705	463.536	0.0754	94.03	0.0885	9.5	0.0780
1706	463.536	0.0754	94.03	0.0885	9.5	0.0780
1707	463.536	0.0754	94.03	0.0886	9.5	0.0780
1708	463.536	0.0754	94.03	0.0886	9.5	0.0780
1709	463.536	0.0754	94.03	0.0886	9.5	0.0780
1710	463.536	0.0754	94.03	0.0886	9.5	0.0781
1711	463.536	0.0754	94.03	0.0886	9.5	0.0781
1712	463.536	0.0754	94.03	0.0886	9.5	0.0781
1713	463.536	0.0754	94.03	0.0886	9.5	0.0781
1714	463.536	0.0754	94.03	0.0886	9.5	0.0781
1715	463.536	0.0755	94.03	0.0886	9.5	0.0781
1716	463.536	0.0755	94.03	0.0886	9.5	0.0781
1717	463.536	0.0755	94.03	0.0887	9.5	0.0781

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1718	463.536	0.0755	94.03	0.0887	9.5	0.0781
1719	463.536	0.0755	94.03	0.0887	9.5	0.0781
1720	463.536	0.0755	94.03	0.0887	9.5	0.0781
1721	463.536	0.0755	94.03	0.0887	9.5	0.0781
1722	463.536	0.0755	94.03	0.0887	9.5	0.0782
1723	463.536	0.0755	94.03	0.0887	9.5	0.0782
1724	463.536	0.0755	94.03	0.0887	9.5	0.0782
1725	463.536	0.0755	94.03	0.0887	9.5	0.0782
1726	463.536	0.0755	94.03	0.0887	9.5	0.0782
1727	463.536	0.0755	94.03	0.0888	9.5	0.0782
1728	463.536	0.0755	94.03	0.0888	9.5	0.0782
1729	463.536	0.0755	94.03	0.0888	9.5	0.0782
1730	463.536	0.0755	94.03	0.0888	9.5	0.0782
1731	463.536	0.0755	94.03	0.0888	9.5	0.0782
1732	463.536	0.0755	94.03	0.0888	9.5	0.0782
1733	463.536	0.0755	94.03	0.0888	9.5	0.0782
1734	463.536	0.0755	94.03	0.0888	9.5	0.0783
1735	463.536	0.0755	94.03	0.0888	9.5	0.0783
1736	463.536	0.0755	94.03	0.0888	9.5	0.0783
1737	463.536	0.0755	94.03	0.0889	9.5	0.0783
1738	463.536	0.0755	94.03	0.0889	9.5	0.0783
1739	463.536	0.0755	94.03	0.0889	9.5	0.0783
1740	463.536	0.0755	94.03	0.0889	9.5	0.0783
1741	463.536	0.0755	94.03	0.0889	9.5	0.0783
1742	463.536	0.0756	94.03	0.0889	9.5	0.0783
1743	463.536	0.0756	94.03	0.0889	9.5	0.0783
1744	463.536	0.0756	94.03	0.0889	9.5	0.0783
1745	463.536	0.0756	94.03	0.0889	9.5	0.0784
1746	463.536	0.0756	94.03	0.0889	9.5	0.0784
1747	463.536	0.0756	94.03	0.0890	9.5	0.0784
1748	463.536	0.0756	94.03	0.0890	9.5	0.0784
1749	463.536	0.0756	94.03	0.0890	9.5	0.0784
1750	463.536	0.0756	94.03	0.0890	9.5	0.0784
1751	463.536	0.0756	94.03	0.0890	9.5	0.0784
1752	463.536	0.0756	94.03	0.0890	9.5	0.0784
1753	463.536	0.0756	94.03	0.0890	9.5	0.0784
1754	463.536	0.0756	94.03	0.0890	9.5	0.0784
1755	463.536	0.0756	94.03	0.0890	9.5	0.0784
1756	463.536	0.0756	94.03	0.0890	9.5	0.0784
1757	463.536	0.0756	94.03	0.0891	9.5	0.0785
1758	463.536	0.0756	94.03	0.0891	9.5	0.0785

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1759	463.536	0.0756	94.03	0.0891	9.5	0.0785
1760	463.536	0.0756	94.03	0.0891	9.5	0.0785
1761	463.536	0.0756	94.03	0.0891	9.5	0.0785
1762	463.536	0.0756	94.03	0.0891	9.5	0.0785
1763	463.536	0.0756	94.03	0.0891	9.5	0.0785
1764	463.536	0.0756	94.03	0.0891	9.5	0.0785
1765	463.536	0.0756	94.03	0.0891	9.5	0.0785
1766	463.536	0.0756	94.03	0.0891	9.5	0.0785
1767	463.536	0.0756	94.03	0.0892	9.5	0.0785
1768	463.536	0.0756	94.03	0.0892	9.5	0.0785
1769	463.536	0.0756	94.03	0.0892	9.5	0.0786
1770	463.536	0.0757	94.03	0.0892	9.5	0.0786
1771	463.536	0.0757	94.03	0.0892	9.5	0.0786
1772	463.536	0.0757	94.03	0.0892	9.5	0.0786
1773	463.536	0.0757	94.03	0.0892	9.5	0.0786
1774	463.536	0.0757	94.03	0.0892	9.5	0.0786
1775	463.536	0.0757	94.03	0.0892	9.5	0.0786
1776	463.536	0.0757	94.03	0.0892	9.5	0.0786
1777	463.536	0.0757	94.03	0.0892	9.5	0.0786
1778	463.536	0.0757	94.03	0.0893	9.5	0.0786
1779	463.536	0.0757	94.03	0.0893	9.5	0.0786
1780	463.536	0.0757	94.03	0.0893	9.5	0.0787
1781	463.536	0.0757	94.03	0.0893	9.5	0.0787
1782	463.536	0.0757	94.03	0.0893	9.5	0.0787
1783	463.536	0.0757	94.03	0.0893	9.5	0.0787
1784	463.536	0.0757	94.03	0.0893	9.5	0.0787
1785	463.536	0.0757	94.03	0.0893	9.5	0.0787
1786	463.536	0.0757	94.03	0.0893	9.5	0.0787
1787	463.536	0.0757	94.03	0.0893	9.5	0.0787
1788	463.536	0.0757	94.03	0.0894	9.5	0.0787
1789	463.536	0.0757	94.03	0.0894	9.5	0.0787
1790	463.536	0.0757	94.03	0.0894	9.5	0.0787
1791	463.536	0.0757	94.03	0.0894	9.5	0.0787
1792	463.536	0.0757	94.03	0.0894	9.5	0.0788
1793	463.536	0.0757	94.03	0.0894	9.5	0.0788
1794	463.536	0.0757	94.03	0.0894	9.5	0.0788
1795	463.536	0.0757	94.03	0.0894	9.5	0.0788
1796	463.536	0.0757	94.03	0.0894	9.5	0.0788
1797	463.536	0.0757	94.03	0.0894	9.5	0.0788
1798	463.536	0.0758	94.03	0.0895	9.5	0.0788
1799	463.536	0.0758	94.03	0.0895	9.5	0.0788

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1800	463.536	0.0758	94.03	0.0895	9.5	0.0788
1801	463.536	0.0758	94.03	0.0895	9.5	0.0788
1802	463.536	0.0758	94.03	0.0895	9.5	0.0788
1803	463.536	0.0758	94.03	0.0895	9.5	0.0789
1804	463.536	0.0758	94.03	0.0895	9.5	0.0789
1805	463.536	0.0758	94.03	0.0895	9.5	0.0789
1806	463.536	0.0758	94.03	0.0895	9.5	0.0789
1807	463.536	0.0758	94.03	0.0895	9.5	0.0789
1808	463.536	0.0758	94.03	0.0896	9.5	0.0789
1809	463.536	0.0758	94.03	0.0896	9.5	0.0789
1810	463.536	0.0758	94.03	0.0921	9.5	0.0789
1811	463.536	0.0758	94.03	0.0963	9.5	0.0789
1812	463.536	0.0758	94.03	0.1005	9.5	0.0789
1813	463.536	0.0758	94.03	0.1047	9.5	0.0789
1814	463.536	0.0758	94.03	0.1088	9.5	0.0789
1815	463.536	0.0758	94.03	0.1129	9.5	0.0790
1816	463.536	0.0758	94.03	0.1169	9.5	0.0790
1817	463.536	0.0758	94.03	0.1200	9.5	0.0790
1818	463.536	0.0758	94.03	0.1204	9.5	0.0790
1819	463.536	0.0758	94.03	0.1208	9.5	0.0790
1820	463.536	0.0758	94.03	0.1212	9.5	0.0790
1821	463.536	0.0758	94.03	0.1216	9.5	0.0790
1822	463.536	0.0758	94.03	0.1220	9.5	0.0790
1823	463.536	0.0758	94.03	0.1224	9.5	0.0790
1824	463.536	0.0758	94.03	0.1228	9.5	0.0790
1825	463.536	0.0758	94.03	0.1232	9.5	0.0790
1826	463.536	0.0758	94.03	0.1236	9.5	0.0791
1827	463.536	0.0759	94.03	0.1240	9.5	0.0791
1828	463.536	0.0759	94.03	0.1244	9.5	0.0791
1829	463.536	0.0759	94.03	0.1249	9.5	0.0791
1830	463.536	0.0759	94.03	0.1253	9.5	0.0791
1831	463.536	0.0759	94.03	0.1257	9.5	0.0791
1832	463.536	0.0759	94.03	0.1260	9.5	0.0791
1833	463.536	0.0759	94.03	0.1264	9.5	0.0791
1834	463.536	0.0759	94.03	0.1268	9.5	0.0791
1835	463.536	0.0759	94.03	0.1272	9.5	0.0791
1836	463.536	0.0759	94.03	0.1276	9.5	0.0791
1837	463.536	0.0759	94.03	0.1280	9.5	0.0791
1838	463.536	0.0759	94.03	0.1284	9.5	0.0791
1839	463.536	0.0759	94.03	0.1288	9.5	0.0791
1840	463.536	0.0759	94.03	0.1292	9.5	0.0792

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1841	463.536	0.0759	94.03	0.1296	9.5	0.0792
1842	463.536	0.0759	94.03	0.1300	9.5	0.0792
1843	463.536	0.0759	94.03	0.1304	9.5	0.0792
1844	463.536	0.0759	94.03	0.1308	9.5	0.0792
1845	463.536	0.0759	94.03	0.1312	9.5	0.0792
1846	463.536	0.0759	94.03	0.1316	9.5	0.0792
1847	463.536	0.0759	94.03	0.1320	9.5	0.0792
1848	463.536	0.0759	94.03	0.1324	9.5	0.0792
1849	463.536	0.0759	94.03	0.1328	9.5	0.0792
1850	463.536	0.0759	94.03	0.1332	9.5	0.0792
1851	463.536	0.0759	94.03	0.1336	9.5	0.0792
1852	463.536	0.0759	94.03	0.1339	9.5	0.0792
1853	463.536	0.0759	94.03	0.1343	9.5	0.0792
1854	463.536	0.0759	94.03	0.1347	9.5	0.0793
1855	463.536	0.0759	94.03	0.1351	9.5	0.0793
1856	463.536	0.0759	94.03	0.1355	9.5	0.0793
1857	463.536	0.0759	94.03	0.1359	9.5	0.0793
1858	463.536	0.0760	94.03	0.1363	9.5	0.0793
1859	463.536	0.0760	94.03	0.1367	9.5	0.0793
1860	463.536	0.0760	94.03	0.1371	9.5	0.0793
1861	463.536	0.0760	94.03	0.1374	9.5	0.0793
1862	463.536	0.0760	94.03	0.1378	9.5	0.0793
1863	463.536	0.0760	94.03	0.1382	9.5	0.0793
1864	463.536	0.0760	94.03	0.1386	9.5	0.0793
1865	463.536	0.0760	94.03	0.1390	9.5	0.0793
1866	463.536	0.0760	94.03	0.1394	9.5	0.0793
1867	463.536	0.0760	94.03	0.1398	9.5	0.0793
1868	463.536	0.0760	94.03	0.1401	9.5	0.0794
1869	463.536	0.0760	94.03	0.1405	9.5	0.0794
1870	463.536	0.0760	94.03	0.1409	9.5	0.0794
1871	463.536	0.0760	94.03	0.1410	9.5	0.0794
1872	463.536	0.0760	94.03	0.1411	9.5	0.0794
1873	463.536	0.0760	94.03	0.1412	9.5	0.0794
1874	463.536	0.0760	94.03	0.1414	9.5	0.0794
1875	463.536	0.0760	94.03	0.1415	9.5	0.0794
1876	463.536	0.0760	94.03	0.1416	9.5	0.0794
1877	463.536	0.0760	94.03	0.1417	9.5	0.0794
1878	463.536	0.0760	94.03	0.1418	9.5	0.0794
1879	463.536	0.0760	94.03	0.1419	9.5	0.0794
1880	463.536	0.0760	94.03	0.1420	9.5	0.0794
1881	463.536	0.0760	94.03	0.1421	9.5	0.0794

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1882	463.536	0.0760	94.03	0.1422	9.5	0.0795
1883	463.536	0.0760	94.03	0.1423	9.5	0.0795
1884	463.536	0.0760	94.03	0.1424	9.5	0.0795
1885	463.536	0.0760	94.03	0.1425	9.5	0.0795
1886	463.536	0.0760	94.03	0.1427	9.5	0.0795
1887	463.536	0.0760	94.03	0.1428	9.5	0.0795
1888	463.536	0.0760	94.03	0.1429	9.5	0.0795
1889	463.536	0.0760	94.03	0.1430	9.5	0.0795
1890	463.536	0.0760	94.03	0.1431	9.5	0.0795
1891	463.536	0.0761	94.03	0.1432	9.5	0.0795
1892	463.536	0.0761	94.03	0.1433	9.5	0.0795
1893	463.536	0.0761	94.03	0.1434	9.5	0.0795
1894	463.536	0.0761	94.03	0.1435	9.5	0.0795
1895	463.536	0.0761	94.03	0.1436	9.5	0.0796
1896	463.536	0.0761	94.03	0.1437	9.5	0.0796
1897	463.536	0.0761	94.03	0.1438	9.5	0.0796
1898	463.536	0.0761	94.03	0.1440	9.5	0.0796
1899	463.536	0.0761	94.03	0.1441	9.5	0.0796
1900	463.536	0.0761	94.03	0.1442	9.5	0.0796
1901	463.536	0.0761	94.03	0.1443	9.5	0.0796
1902	463.536	0.0761	94.03	0.1444	9.5	0.0796
1903	463.536	0.0761	94.03	0.1445	9.5	0.0796
1904	463.536	0.0761	94.03	0.1446	9.5	0.0796
1905	463.536	0.0761	94.03	0.1447	9.5	0.0796
1906	463.536	0.0761	94.03	0.1448	9.5	0.0796
1907	463.536	0.0761	94.03	0.1449	9.5	0.0796
1908	463.536	0.0761	94.03	0.1450	9.5	0.0796
1909	463.536	0.0761	94.03	0.1451	9.5	0.0797
1910	463.536	0.0761	94.03	0.1452	9.5	0.0797
1911	463.536	0.0761	94.03	0.1454	9.5	0.0797
1912	463.536	0.0761	94.03	0.1455	9.5	0.0797
1913	463.536	0.0761	94.03	0.1456	9.5	0.0797
1914	463.536	0.0761	94.03	0.1457	9.5	0.0797
1915	463.536	0.0761	94.03	0.1458	9.5	0.0797
1916	463.536	0.0761	94.03	0.1459	9.5	0.0797
1917	463.536	0.0761	94.03	0.1460	9.5	0.0797
1918	463.536	0.0761	94.03	0.1461	9.5	0.0797
1919	463.536	0.0761	94.03	0.1462	9.5	0.0797
1920	463.536	0.0761	94.03	0.1463	9.5	0.0797
1921	463.536	0.0761	94.03	0.1464	9.5	0.0797
1922	463.536	0.0761	94.03	0.1465	9.5	0.0797

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1923	463.536	0.0761	94.03	0.1466	9.5	0.0798
1924	463.536	0.0762	94.03	0.1467	9.5	0.0798
1925	463.536	0.0762	94.03	0.1469	9.5	0.0798
1926	463.536	0.0762	94.03	0.1472	9.5	0.0798
1927	463.536	0.0762	94.03	0.1476	9.5	0.0798
1928	463.536	0.0762	94.03	0.1481	9.5	0.0798
1929	463.536	0.0762	94.03	0.1485	9.5	0.0798
1930	463.536	0.0762	94.03	0.1490	9.5	0.0798
1931	463.536	0.0762	94.03	0.1494	9.5	0.0798
1932	463.536	0.0762	94.03	0.1498	9.5	0.0798
1933	463.536	0.0762	94.03	0.1503	9.5	0.0798
1934	463.536	0.0762	94.03	0.1507	9.5	0.0798
1935	463.536	0.0762	94.03	0.1512	9.5	0.0798
1936	463.536	0.0762	94.03	0.1516	9.5	0.0799
1937	463.536	0.0762	94.03	0.1520	9.5	0.0799
1938	463.536	0.0762	94.03	0.1525	9.5	0.0799
1939	463.536	0.0762	94.03	0.1529	9.5	0.0799
1940	463.536	0.0762	94.03	0.1534	9.5	0.0799
1941	463.536	0.0762	94.03	0.1538	9.5	0.0799
1942	463.536	0.0762	94.03	0.1542	9.5	0.0799
1943	463.536	0.0762	94.03	0.1547	9.5	0.0799
1944	463.536	0.0762	94.03	0.1551	9.5	0.0799
1945	463.536	0.0762	94.03	0.1556	9.5	0.0799
1946	463.536	0.0762	94.03	0.1560	9.5	0.0799
1947	463.536	0.0762	94.03	0.1564	9.5	0.0799
1948	463.536	0.0762	94.03	0.1569	9.5	0.0799
1949	463.536	0.0762	94.03	0.1573	9.5	0.0799
1950	463.536	0.0762	94.03	0.1577	9.5	0.0800
1951	463.536	0.0762	94.03	0.1582	9.5	0.0800
1952	463.536	0.0762	94.03	0.1586	9.5	0.0800
1953	463.536	0.0762	94.03	0.1590	9.5	0.0800
1954	463.536	0.0762	94.03	0.1595	9.5	0.0800
1955	463.536	0.0762	94.03	0.1599	9.5	0.0800
1956	463.536	0.0762	94.03	0.1603	9.5	0.0800
1957	463.536	0.0762	94.03	0.1607	9.5	0.0800
1958	463.536	0.0762	94.03	0.1612	9.5	0.0800
1959	463.536	0.0763	94.03	0.1616	9.5	0.0800
1960	463.536	0.0763	94.03	0.1620	9.5	0.0800
1961	463.536	0.0763	94.03	0.1625	9.5	0.0800
1962	463.536	0.0763	94.03	0.1629	9.5	0.0800
1963	463.536	0.0763	94.03	0.1633	9.5	0.0800

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1964	463.536	0.0763	94.03	0.1638	9.5	0.0801
1965	463.536	0.0763	94.03	0.1642	9.5	0.0801
1966	463.536	0.0763	94.03	0.1646	9.5	0.0801
1967	463.536	0.0763	94.03	0.1650	9.5	0.0801
1968	463.536	0.0763	94.03	0.1655	9.5	0.0801
1969	463.536	0.0763	94.03	0.1659	9.5	0.0801
1970	463.536	0.0763	94.03	0.1663	9.5	0.0801
1971	463.536	0.0763	94.03	0.1667	9.5	0.0801
1972	463.536	0.0763	94.03	0.1672	9.5	0.0801
1973	463.536	0.0763	94.03	0.1676	9.5	0.0801
1974	463.536	0.0763	94.03	0.1680	9.5	0.0801
1975	463.536	0.0763	94.03	0.1684	9.5	0.0801
1976	463.536	0.0763	94.03	0.1688	9.5	0.0801
1977	463.536	0.0763	94.03	0.1693	9.5	0.0802
1978	463.536	0.0763	94.03	0.1697	9.5	0.0802
1979	463.536	0.0763	94.03	0.1701	9.5	0.0802
1980	463.536	0.0763	94.03	0.1705	9.5	0.0802
1981	463.536	0.0763	94.03	0.1709	9.5	0.0802
1982	463.536	0.0763	94.03	0.1714	9.5	0.0802
1983	463.536	0.0763	94.03	0.1717	9.5	0.0802
1984	463.536	0.0763	94.03	0.1718	9.5	0.0802
1985	463.536	0.0763	94.03	0.1718	9.5	0.0802
1986	463.536	0.0763	94.03	0.1719	9.5	0.0802
1987	463.536	0.0763	94.03	0.1719	9.5	0.0802
1988	463.536	0.0763	94.03	0.1720	9.5	0.0802
1989	463.536	0.0763	94.03	0.1720	9.5	0.0802
1990	463.536	0.0763	94.03	0.1721	9.5	0.0802
1991	463.536	0.0763	94.03	0.1721	9.5	0.0803
1992	463.536	0.0763	94.03	0.1722	9.5	0.0803
1993	463.536	0.0763	94.03	0.1722	9.5	0.0803
1994	463.536	0.0764	94.03	0.1723	9.5	0.0803
1995	463.536	0.0764	94.03	0.1723	9.5	0.0803
1996	463.536	0.0764	94.03	0.1724	9.5	0.0803
1997	463.536	0.0764	94.03	0.1724	9.5	0.0803
1998	463.536	0.0764	94.03	0.1725	9.5	0.0803
1999	463.536	0.0764	94.03	0.1725	9.5	0.0803
2000	463.536	0.0764	94.03	0.1726	9.5	0.0803
2001	463.536	0.0764	94.03	0.1726	9.5	0.0803
2002	463.536	0.0764	94.03	0.1727	9.5	0.0803
2003	463.536	0.0764	94.03	0.1727	9.5	0.0803
2004	463.536	0.0764	94.03	0.1728	9.5	0.0804

Attachment 1

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
2005	463.536	0.0764	94.03	0.1728	9.5	0.0804
2006	463.536	0.0764	94.03	0.1729	9.5	0.0804
2007	463.536	0.0764	94.03	0.1729	9.5	0.0804
2008	463.536	0.0764	94.03	0.1730	9.5	0.0804
2009	463.536	0.0764	94.03	0.1730	9.5	0.0804
2010	463.536	0.0764	94.03	0.1731	9.5	0.0804
2011	463.536	0.0764	94.03	0.1731	9.5	0.0804
2012	463.536	0.0764	94.03	0.1732	9.5	0.0804
2013	463.536	0.0764	94.03	0.1732	9.5	0.0804
2014	463.536	0.0764	94.03	0.1733	9.5	0.0804
2015	463.536	0.0764	94.03	0.1733	9.5	0.0804
2016	463.536	0.0764	94.03	0.1734	9.5	0.0804
2017	463.536	0.0764	94.03	0.1734	9.5	0.0804
2018	463.536	0.0764	94.03	0.1735	9.5	0.0805
2019	463.536	0.0764	94.03	0.1735	9.5	0.0805
2020	463.536	0.0764	94.03	0.1736	9.5	0.0805
2021	463.536	0.0764	94.03	0.1736	9.5	0.0805
2022	463.536	0.0764	94.03	0.1737	9.5	0.0805
2023	463.536	0.0764	94.03	0.1737	9.5	0.0805

	X	Y	Z	AA	AB
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19	$x=0.5777893*(7.51+(0.0209*AG24)-(1.45E-5*AG24^2)+(7.67E-9*AG24^3))$		$x=AZ24$	$x=0.5777893*(7.51+(0.0209*AH24)-(1.45E-5*AH24^2)+(7.67E-9*AH24^3))$	
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
23	7.5072	17.45	0.0682	7.5072	45.20
24	7.5072	17.45	0.0682	7.5072	45.20
25	7.5072	17.45	0.0682	7.5072	45.20
26	7.5072	17.45	0.0682	7.5072	45.20
27	7.5072	17.45	0.0682	7.5072	45.20
28	7.5072	17.45	0.0682	7.5073	45.20
29	7.5073	17.45	0.0682	7.5073	45.20
30	7.5073	17.45	0.0682	7.5073	45.20
31	7.5073	17.45	0.0682	7.5073	45.20
32	7.5073	17.45	0.0682	7.5074	45.20
33	7.5073	17.45	0.0682	7.5074	45.20
34	7.5074	17.45	0.0682	7.5075	45.20
35	7.5074	17.45	0.0682	7.5075	45.20
36	7.5074	17.45	0.0682	7.5076	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
37	7.5075	17.45	0.0682	7.5076	45.20
38	7.5075	17.45	0.0682	7.5077	45.20
39	7.5076	17.45	0.0682	7.5078	45.20
40	7.5076	17.45	0.0682	7.5079	45.20
41	7.5077	17.45	0.0682	7.5079	45.20
42	7.5077	17.45	0.0682	7.5080	45.20
43	7.5078	17.45	0.0682	7.5081	45.20
44	7.5078	17.45	0.0682	7.5082	45.20
45	7.5079	17.45	0.0682	7.5083	45.20
46	7.5079	17.45	0.0682	7.5084	45.20
47	7.5080	17.45	0.0682	7.5085	45.20
48	7.5081	17.45	0.0682	7.5086	45.20
49	7.5082	17.45	0.0682	7.5087	45.20
50	7.5082	17.45	0.0682	7.5088	45.20
51	7.5083	17.45	0.0682	7.5090	45.20
52	7.5084	17.45	0.0682	7.5091	45.20
53	7.5085	17.45	0.0682	7.5092	45.20
54	7.5086	17.45	0.0682	7.5094	45.20
55	7.5086	17.45	0.0682	7.5095	45.20
56	7.5087	17.45	0.0682	7.5096	45.20
57	7.5088	17.45	0.0682	7.5098	45.20
58	7.5089	17.45	0.0682	7.5099	45.20
59	7.5090	17.45	0.0682	7.5101	45.20
60	7.5091	17.45	0.0682	7.5103	45.20
61	7.5092	17.45	0.0682	7.5104	45.20
62	7.5093	17.45	0.0682	7.5106	45.20
63	7.5094	17.45	0.0682	7.5108	45.20
64	7.5096	17.45	0.0682	7.5110	45.20
65	7.5097	17.45	0.0682	7.5111	45.20
66	7.5098	17.45	0.0682	7.5113	45.20
67	7.5099	17.45	0.0682	7.5115	45.20
68	7.5100	17.45	0.0682	7.5117	45.20
69	7.5102	17.45	0.0683	7.5119	45.20
70	7.5103	17.45	0.0683	7.5121	45.20
71	7.5104	17.45	0.0683	7.5123	45.20
72	7.5105	17.45	0.0683	7.5125	45.20
73	7.5107	17.45	0.0683	7.5128	45.20
74	7.5108	17.45	0.0683	7.5130	45.20
75	7.5110	17.45	0.0683	7.5132	45.20
76	7.5111	17.45	0.0683	7.5134	45.20
77	7.5112	17.45	0.0683	7.5137	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
78	7.5114	17.45	0.0683	7.5139	45.20
79	7.5115	17.45	0.0683	7.5141	45.20
80	7.5117	17.45	0.0683	7.5144	45.20
81	7.5119	17.45	0.0683	7.5146	45.20
82	7.5120	17.45	0.0683	7.5149	45.20
83	7.5122	17.45	0.0683	7.5151	45.20
84	7.5123	17.45	0.0683	7.5154	45.20
85	7.5125	17.45	0.0683	7.5157	45.20
86	7.5127	17.45	0.0683	7.5159	45.20
87	7.5128	17.45	0.0683	7.5162	45.20
88	7.5130	17.45	0.0683	7.5165	45.20
89	7.5132	17.45	0.0683	7.5168	45.20
90	7.5134	17.45	0.0683	7.5170	45.20
91	7.5136	17.45	0.0683	7.5173	45.20
92	7.5137	17.45	0.0683	7.5176	45.20
93	7.5139	17.45	0.0683	7.5179	45.20
94	7.5141	17.45	0.0683	7.5182	45.20
95	7.5143	17.45	0.0683	7.5185	45.20
96	7.5145	17.45	0.0683	7.5188	45.20
97	7.5147	17.45	0.0683	7.5191	45.20
98	7.5149	17.45	0.0683	7.5195	45.20
99	7.5151	17.45	0.0683	7.5198	45.20
100	7.5153	17.45	0.0683	7.5201	45.20
101	7.5155	17.45	0.0683	7.5204	45.20
102	7.5157	17.45	0.0683	7.5207	45.20
103	7.5159	17.45	0.0683	7.5211	45.20
104	7.5161	17.45	0.0683	7.5214	45.20
105	7.5164	17.45	0.0683	7.5218	45.20
106	7.5166	17.45	0.0683	7.5221	45.20
107	7.5168	17.45	0.0683	7.5225	45.20
108	7.5170	17.45	0.0683	7.5228	45.20
109	7.5172	17.45	0.0683	7.5232	45.20
110	7.5175	17.45	0.0683	7.5235	45.20
111	7.5177	17.45	0.0683	7.5239	45.20
112	7.5179	17.45	0.0683	7.5243	45.20
113	7.5182	17.45	0.0683	7.5246	45.20
114	7.5184	17.45	0.0683	7.5250	45.20
115	7.5186	17.45	0.0683	7.5254	45.20
116	7.5189	17.45	0.0683	7.5258	45.20
117	7.5191	17.45	0.0683	7.5261	45.20
118	7.5194	17.45	0.0683	7.5265	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
119	7.5196	17.45	0.0683	7.5269	45.20
120	7.5199	17.45	0.0683	7.5273	45.20
121	7.5201	17.45	0.0683	7.5277	45.20
122	7.5204	17.45	0.0684	7.5281	45.20
123	7.5206	17.45	0.0684	7.5285	45.20
124	7.5209	17.45	0.0684	7.5289	45.20
125	7.5212	17.45	0.0684	7.5293	45.20
126	7.5214	17.45	0.0684	7.5298	45.20
127	7.5217	17.45	0.0684	7.5302	45.20
128	7.5220	17.45	0.0684	7.5306	45.20
129	7.5222	17.45	0.0684	7.5310	45.20
130	7.5225	17.45	0.0684	7.5315	45.20
131	7.5228	17.45	0.0684	7.5319	45.20
132	7.5231	17.45	0.0684	7.5323	45.20
133	7.5233	17.45	0.0684	7.5328	45.20
134	7.5236	17.45	0.0684	7.5332	45.20
135	7.5239	17.45	0.0684	7.5337	45.20
136	7.5242	17.45	0.0684	7.5341	45.20
137	7.5245	17.45	0.0684	7.5346	45.20
138	7.5248	17.45	0.0684	7.5350	45.20
139	7.5251	17.45	0.0684	7.5355	45.20
140	7.5254	17.45	0.0684	7.5360	45.20
141	7.5257	17.45	0.0684	7.5364	45.20
142	7.5260	17.45	0.0684	7.5369	45.20
143	7.5263	17.45	0.0684	7.5374	45.20
144	7.5266	17.45	0.0684	7.5379	45.20
145	7.5269	17.45	0.0684	7.5383	45.20
146	7.5272	17.45	0.0684	7.5388	45.20
147	7.5275	17.45	0.0684	7.5393	45.20
148	7.5278	17.45	0.0684	7.5398	45.20
149	7.5281	17.45	0.0684	7.5403	45.20
150	7.5284	17.45	0.0684	7.5408	45.20
151	7.5288	17.45	0.0684	7.5413	45.20
152	7.5291	17.45	0.0684	7.5418	45.20
153	7.5294	17.45	0.0684	7.5423	45.20
154	7.5297	17.45	0.0684	7.5428	45.20
155	7.5301	17.45	0.0684	7.5433	45.20
156	7.5304	17.45	0.0684	7.5439	45.20
157	7.5307	17.45	0.0685	7.5444	45.20
158	7.5311	17.45	0.0685	7.5449	45.20
159	7.5314	17.45	0.0685	7.5454	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
160	7.5317	17.45	0.0685	7.5460	45.20
161	7.5321	17.45	0.0685	7.5465	45.20
162	7.5324	17.45	0.0685	7.5470	45.20
163	7.5328	17.45	0.0685	7.5476	45.20
164	7.5331	17.45	0.0685	7.5481	45.20
165	7.5335	17.45	0.0685	7.5487	45.20
166	7.5338	17.45	0.0685	7.5492	45.20
167	7.5342	17.45	0.0685	7.5498	45.20
168	7.5345	17.45	0.0685	7.5503	45.20
169	7.5349	17.45	0.0685	7.5509	45.20
170	7.5352	17.45	0.0685	7.5515	45.20
171	7.5356	17.45	0.0685	7.5520	45.20
172	7.5360	17.45	0.0685	7.5526	45.20
173	7.5363	17.45	0.0685	7.5532	45.20
174	7.5367	17.45	0.0685	7.5537	45.20
175	7.5371	17.45	0.0685	7.5543	45.20
176	7.5374	17.45	0.0685	7.5549	45.20
177	7.5378	17.45	0.0685	7.5555	45.20
178	7.5382	17.45	0.0685	7.5561	45.20
179	7.5386	17.45	0.0685	7.5567	45.20
180	7.5390	17.45	0.0685	7.5572	45.20
181	7.5393	17.45	0.0685	7.5578	45.20
182	7.5397	17.45	0.0685	7.5584	45.20
183	7.5401	17.45	0.0685	7.5590	45.20
184	7.5405	17.45	0.0685	7.5597	45.20
185	7.5409	17.45	0.0686	7.5603	45.20
186	7.5413	17.45	0.0686	7.5609	45.20
187	7.5417	17.45	0.0686	7.5615	45.20
188	7.5421	17.45	0.0686	7.5621	45.20
189	7.5425	17.45	0.0686	7.5627	45.20
190	7.5429	17.45	0.0686	7.5633	45.20
191	7.5433	17.45	0.0686	7.5640	45.20
192	7.5437	17.45	0.0686	7.5646	45.20
193	7.5441	17.45	0.0686	7.5652	45.20
194	7.5445	17.45	0.0686	7.5659	45.20
195	7.5449	17.45	0.0686	7.5665	45.20
196	7.5453	17.45	0.0686	7.5671	45.20
197	7.5457	17.45	0.0686	7.5678	45.20
198	7.5461	17.45	0.0686	7.5684	45.20
199	7.5466	17.45	0.0686	7.5691	45.20
200	7.5470	17.45	0.0686	7.5697	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
201	7.5474	17.45	0.0686	7.5704	45.20
202	7.5478	17.45	0.0686	7.5711	45.20
203	7.5483	17.45	0.0686	7.5717	45.20
204	7.5487	17.45	0.0686	7.5724	45.20
205	7.5491	17.45	0.0686	7.5730	45.20
206	7.5495	17.45	0.0686	7.5737	45.20
207	7.5500	17.45	0.0686	7.5744	45.20
208	7.5504	17.45	0.0686	7.5751	45.20
209	7.5509	17.45	0.0686	7.5757	45.20
210	7.5513	17.45	0.0687	7.5764	45.20
211	7.5517	17.45	0.0687	7.5771	45.20
212	7.5522	17.45	0.0687	7.5778	45.20
213	7.5526	17.45	0.0687	7.5785	45.20
214	7.5531	17.45	0.0687	7.5792	45.20
215	7.5535	17.45	0.0687	7.5799	45.20
216	7.5540	17.45	0.0687	7.5806	45.20
217	7.5544	17.45	0.0687	7.5813	45.20
218	7.5549	17.45	0.0687	7.5820	45.20
219	7.5553	17.45	0.0687	7.5827	45.20
220	7.5558	17.45	0.0687	7.5834	45.20
221	7.5563	17.45	0.0687	7.5841	45.20
222	7.5567	17.45	0.0687	7.5848	45.20
223	7.5572	17.45	0.0687	7.5855	45.20
224	7.5576	17.45	0.0687	7.5863	45.20
225	7.5581	17.45	0.0687	7.5870	45.20
226	7.5586	17.45	0.0687	7.5877	45.20
227	7.5591	17.45	0.0687	7.5884	45.20
228	7.5595	17.45	0.0687	7.5892	45.20
229	7.5600	17.45	0.0687	7.5899	45.20
230	7.5605	17.45	0.0687	7.5906	45.20
231	7.5610	17.45	0.0687	7.5914	45.20
232	7.5614	17.45	0.0688	7.5921	45.20
233	7.5619	17.45	0.0688	7.5928	45.20
234	7.5624	17.45	0.0688	7.5936	45.20
235	7.5629	17.45	0.0688	7.5943	45.20
236	7.5634	17.45	0.0688	7.5951	45.20
237	7.5639	17.45	0.0688	7.5959	45.20
238	7.5644	17.45	0.0688	7.5966	45.20
239	7.5648	17.45	0.0688	7.5974	45.20
240	7.5653	17.45	0.0688	7.5981	45.20
241	7.5658	17.45	0.0688	7.5989	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
242	7.5663	17.45	0.0688	7.5997	45.20
243	7.5668	17.45	0.0688	7.6004	45.20
244	7.5673	17.45	0.0688	7.6012	45.20
245	7.5678	17.45	0.0688	7.6020	45.20
246	7.5684	17.45	0.0688	7.6028	45.20
247	7.5689	17.45	0.0688	7.6035	45.20
248	7.5694	17.45	0.0688	7.6043	45.20
249	7.5699	17.45	0.0688	7.6051	45.20
250	7.5704	17.45	0.0688	7.6059	45.20
251	7.5709	17.45	0.0688	7.6067	45.20
252	7.5714	17.45	0.0688	7.6075	45.20
253	7.5719	17.45	0.0689	7.6083	45.20
254	7.5725	17.45	0.0689	7.6091	45.20
255	7.5730	17.45	0.0689	7.6099	45.20
256	7.5735	17.45	0.0689	7.6107	45.20
257	7.5740	17.45	0.0689	7.6115	45.20
258	7.5746	17.45	0.0689	7.6123	45.20
259	7.5751	17.45	0.0689	7.6131	45.20
260	7.5756	17.45	0.0689	7.6139	45.20
261	7.5762	17.45	0.0689	7.6147	45.20
262	7.5767	17.45	0.0689	7.6156	45.20
263	7.5772	17.45	0.0689	7.6164	45.20
264	7.5778	17.45	0.0689	7.6172	45.20
265	7.5783	17.45	0.0689	7.6180	45.20
266	7.5788	17.45	0.0689	7.6189	45.20
267	7.5794	17.45	0.0689	7.6197	45.20
268	7.5799	17.45	0.0689	7.6205	45.20
269	7.5805	17.45	0.0689	7.6214	45.20
270	7.5810	17.45	0.0689	7.6222	45.20
271	7.5816	17.45	0.0689	7.6230	45.20
272	7.5821	17.45	0.0690	7.6239	45.20
273	7.5827	17.45	0.0690	7.6247	45.20
274	7.5832	17.45	0.0690	7.6256	45.20
275	7.5838	17.45	0.0690	7.6264	45.20
276	7.5843	17.45	0.0690	7.6273	45.20
277	7.5849	17.45	0.0690	7.6281	45.20
278	7.5855	17.45	0.0690	7.6290	45.20
279	7.5860	17.45	0.0690	7.6298	45.20
280	7.5866	17.45	0.0690	7.6307	45.20
281	7.5872	17.45	0.0690	7.6316	45.20
282	7.5877	17.45	0.0690	7.6324	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
283	7.5883	17.45	0.0690	7.6333	45.20
284	7.5889	17.45	0.0690	7.6342	45.20
285	7.5894	17.45	0.0690	7.6351	45.20
286	7.5900	17.45	0.0690	7.6359	45.20
287	7.5906	17.45	0.0690	7.6368	45.20
288	7.5912	17.45	0.0690	7.6377	45.20
289	7.5917	17.45	0.0690	7.6386	45.20
290	7.5923	17.45	0.0691	7.6395	45.20
291	7.5929	17.45	0.0691	7.6403	45.20
292	7.5935	17.45	0.0691	7.6412	45.20
293	7.5941	17.45	0.0691	7.6421	45.20
294	7.5947	17.45	0.0691	7.6430	45.20
295	7.5953	17.45	0.0691	7.6439	45.20
296	7.5959	17.45	0.0691	7.6448	45.20
297	7.5964	17.45	0.0691	7.6457	45.20
298	7.5970	17.45	0.0691	7.6466	45.20
299	7.5976	17.45	0.0691	7.6475	45.20
300	7.5982	17.45	0.0691	7.6485	45.20
301	7.5988	17.45	0.0691	7.6494	45.20
302	7.5994	17.45	0.0691	7.6503	45.20
303	7.6000	17.45	0.0691	7.6512	45.20
304	7.6006	17.45	0.0691	7.6521	45.20
305	7.6012	17.45	0.0691	7.6530	45.20
306	7.6019	17.45	0.0691	7.6540	45.20
307	7.6025	17.45	0.0691	7.6549	45.20
308	7.6031	17.45	0.0692	7.6558	45.20
309	7.6037	17.45	0.0692	7.6567	45.20
310	7.6043	17.45	0.0692	7.6577	45.20
311	7.6049	17.45	0.0692	7.6586	45.20
312	7.6055	17.45	0.0692	7.6595	45.20
313	7.6062	17.45	0.0692	7.6605	45.20
314	7.6068	17.45	0.0692	7.6614	45.20
315	7.6074	17.45	0.0692	7.6624	45.20
316	7.6080	17.45	0.0692	7.6633	45.20
317	7.6087	17.45	0.0692	7.6643	45.20
318	7.6093	17.45	0.0692	7.6652	45.20
319	7.6099	17.45	0.0692	7.6662	45.20
320	7.6105	17.45	0.0692	7.6671	45.20
321	7.6112	17.45	0.0692	7.6681	45.20
322	7.6118	17.45	0.0692	7.6690	45.20
323	7.6124	17.45	0.0692	7.6700	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
324	7.6131	17.45	0.0693	7.6710	45.20
325	7.6137	17.45	0.0693	7.6719	45.20
326	7.6144	17.45	0.0693	7.6729	45.20
327	7.6150	17.45	0.0693	7.6739	45.20
328	7.6156	17.45	0.0693	7.6748	45.20
329	7.6163	17.45	0.0693	7.6758	45.20
330	7.6169	17.45	0.0693	7.6768	45.20
331	7.6176	17.45	0.0693	7.6778	45.20
332	7.6182	17.45	0.0693	7.6787	45.20
333	7.6189	17.45	0.0693	7.6797	45.20
334	7.6195	17.45	0.0693	7.6807	45.20
335	7.6202	17.45	0.0693	7.6817	45.20
336	7.6208	17.45	0.0693	7.6827	45.20
337	7.6215	17.45	0.0693	7.6837	45.20
338	7.6222	17.45	0.0693	7.6847	45.20
339	7.6228	17.45	0.0693	7.6857	45.20
340	7.6235	17.45	0.0694	7.6867	45.20
341	7.6241	17.45	0.0694	7.6877	45.20
342	7.6248	17.45	0.0694	7.6887	45.20
343	7.6255	17.45	0.0694	7.6897	45.20
344	7.6261	17.45	0.0694	7.6907	45.20
345	7.6268	17.45	0.0694	7.6917	45.20
346	7.6275	17.45	0.0694	7.6927	45.20
347	7.6282	17.45	0.0694	7.6937	45.20
348	7.6288	17.45	0.0694	7.6947	45.20
349	7.6295	17.45	0.0694	7.6957	45.20
350	7.6302	17.45	0.0694	7.6968	45.20
351	7.6309	17.45	0.0694	7.6978	45.20
352	7.6315	17.45	0.0694	7.6988	45.20
353	7.6322	17.45	0.0694	7.6998	45.20
354	7.6329	17.45	0.0694	7.7009	45.20
355	7.6336	17.45	0.0694	7.7019	45.20
356	7.6343	17.45	0.0695	7.7029	45.20
357	7.6350	17.45	0.0695	7.7040	45.20
358	7.6357	17.45	0.0695	7.7050	45.20
359	7.6364	17.45	0.0695	7.7060	45.20
360	7.6370	17.45	0.0695	7.7071	45.20
361	7.6377	17.45	0.0695	7.7081	45.20
362	7.6384	17.45	0.0695	7.7092	45.20
363	7.6391	17.45	0.0695	7.7102	45.20
364	7.6398	17.45	0.0695	7.7113	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
365	7.6405	17.45	0.0695	7.7123	45.20
366	7.6412	17.45	0.0695	7.7134	45.20
367	7.6419	17.45	0.0695	7.7144	45.20
368	7.6426	17.45	0.0695	7.7155	45.20
369	7.6433	17.45	0.0695	7.7165	45.20
370	7.6441	17.45	0.0695	7.7176	45.20
371	7.6448	17.45	0.0696	7.7187	45.20
372	7.6455	17.45	0.0696	7.7197	45.20
373	7.6462	17.45	0.0696	7.7208	45.20
374	7.6469	17.45	0.0696	7.7219	45.20
375	7.6476	17.45	0.0696	7.7229	45.20
376	7.6483	17.45	0.0696	7.7240	45.20
377	7.6491	17.45	0.0696	7.7251	45.20
378	7.6498	17.45	0.0696	7.7262	45.20
379	7.6505	17.45	0.0696	7.7272	45.20
380	7.6512	17.45	0.0696	7.7283	45.20
381	7.6519	17.45	0.0696	7.7294	45.20
382	7.6527	17.45	0.0696	7.7305	45.20
383	7.6534	17.45	0.0696	7.7316	45.20
384	7.6541	17.45	0.0696	7.7327	45.20
385	7.6549	17.45	0.0697	7.7338	45.20
386	7.6556	17.45	0.0697	7.7348	45.20
387	7.6563	17.45	0.0697	7.7359	45.20
388	7.6571	17.45	0.0697	7.7370	45.20
389	7.6578	17.45	0.0697	7.7381	45.20
390	7.6585	17.45	0.0697	7.7392	45.20
391	7.6593	17.45	0.0697	7.7403	45.20
392	7.6600	17.45	0.0697	7.7415	45.20
393	7.6608	17.45	0.0697	7.7426	45.20
394	7.6615	17.45	0.0697	7.7437	45.20
395	7.6622	17.45	0.0697	7.7448	45.20
396	7.6630	17.45	0.0697	7.7459	45.20
397	7.6637	17.45	0.0697	7.7470	45.20
398	7.6645	17.45	0.0697	7.7481	45.20
399	7.6652	17.45	0.0698	7.7492	45.20
400	7.6660	17.45	0.0698	7.7504	45.20
401	7.6667	17.45	0.0698	7.7515	45.20
402	7.6675	17.45	0.0698	7.7526	45.20
403	7.6683	17.45	0.0698	7.7537	45.20
404	7.6690	17.45	0.0698	7.7549	45.20
405	7.6698	17.45	0.0698	7.7560	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
406	7.6705	17.45	0.0698	7.7571	45.20
407	7.6713	17.45	0.0698	7.7583	45.20
408	7.6721	17.45	0.0698	7.7594	45.20
409	7.6728	17.45	0.0698	7.7605	45.20
410	7.6736	17.45	0.0698	7.7617	45.20
411	7.6744	17.45	0.0698	7.7628	45.20
412	7.6751	17.45	0.0698	7.7640	45.20
413	7.6759	17.45	0.0699	7.7651	45.20
414	7.6767	17.45	0.0699	7.7663	45.20
415	7.6775	17.45	0.0699	7.7674	45.20
416	7.6782	17.45	0.0699	7.7686	45.20
417	7.6790	17.45	0.0699	7.7697	45.20
418	7.6798	17.45	0.0699	7.7709	45.20
419	7.6806	17.45	0.0699	7.7720	45.20
420	7.6814	17.45	0.0699	7.7732	45.20
421	7.6821	17.45	0.0699	7.7744	45.20
422	7.6829	17.45	0.0699	7.7755	45.20
423	7.6837	17.45	0.0699	7.7767	45.20
424	7.6845	17.45	0.0699	7.7779	45.20
425	7.6853	17.45	0.0699	7.7790	45.20
426	7.6861	17.45	0.0699	7.7802	45.20
427	7.6869	17.45	0.0700	7.7814	45.20
428	7.6877	17.45	0.0700	7.7825	45.20
429	7.6885	17.45	0.0700	7.7837	45.20
430	7.6893	17.45	0.0700	7.7849	45.20
431	7.6901	17.45	0.0700	7.7861	45.20
432	7.6909	17.45	0.0700	7.7873	45.20
433	7.6917	17.45	0.0700	7.7884	45.20
434	7.6925	17.45	0.0700	7.7896	45.20
435	7.6933	17.45	0.0700	7.7908	45.20
436	7.6941	17.45	0.0700	7.7920	45.20
437	7.6949	17.45	0.0700	7.7932	45.20
438	7.6957	17.45	0.0700	7.7944	45.20
439	7.6965	17.45	0.0700	7.7956	45.20
440	7.6973	17.45	0.0701	7.7968	45.20
441	7.6981	17.45	0.0701	7.7980	45.20
442	7.6989	17.45	0.0701	7.7992	45.20
443	7.6997	17.45	0.0701	7.8004	45.20
444	7.7006	17.45	0.0701	7.8016	45.20
445	7.7014	17.45	0.0701	7.8028	45.20
446	7.7022	17.45	0.0701	7.8040	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
447	7.7030	17.45	0.0701	7.8052	45.20
448	7.7038	17.45	0.0701	7.8064	45.20
449	7.7047	17.45	0.0701	7.8076	45.20
450	7.7055	17.45	0.0701	7.8089	45.20
451	7.7063	17.45	0.0701	7.8101	45.20
452	7.7071	17.45	0.0701	7.8113	45.20
453	7.7080	17.45	0.0702	7.8125	45.20
454	7.7088	17.45	0.0702	7.8137	45.20
455	7.7096	17.45	0.0702	7.8150	45.20
456	7.7105	17.45	0.0702	7.8162	45.20
457	7.7113	17.45	0.0702	7.8174	45.20
458	7.7121	17.45	0.0702	7.8186	45.20
459	7.7130	17.45	0.0702	7.8199	45.20
460	7.7138	17.45	0.0702	7.8211	45.20
461	7.7147	17.45	0.0702	7.8223	45.20
462	7.7155	17.45	0.0702	7.8236	45.20
463	7.7163	17.45	0.0702	7.8248	45.20
464	7.7172	17.45	0.0702	7.8261	45.20
465	7.7180	17.45	0.0703	7.8273	45.20
466	7.7189	17.45	0.0703	7.8286	45.20
467	7.7197	17.45	0.0703	7.8298	45.20
468	7.7206	17.45	0.0703	7.8310	45.20
469	7.7214	17.45	0.0703	7.8323	45.20
470	7.7223	17.45	0.0703	7.8336	45.20
471	7.7231	17.45	0.0703	7.8348	45.20
472	7.7240	17.45	0.0703	7.8361	45.20
473	7.7248	17.45	0.0703	7.8373	45.20
474	7.7257	17.45	0.0703	7.8386	45.20
475	7.7266	17.45	0.0703	7.8398	45.20
476	7.7274	17.45	0.0703	7.8411	45.20
477	7.7283	17.45	0.0704	7.8424	45.20
478	7.7292	17.45	0.0704	7.8436	45.20
479	7.7300	17.45	0.0704	7.8449	45.20
480	7.7309	17.45	0.0704	7.8462	45.20
481	7.7318	17.45	0.0704	7.8474	45.20
482	7.7326	17.45	0.0704	7.8487	45.20
483	7.7335	17.45	0.0704	7.8500	45.20
484	7.7344	17.45	0.0704	7.8513	45.20
485	7.7352	17.45	0.0704	7.8525	45.20
486	7.7361	17.45	0.0704	7.8538	45.20
487	7.7370	17.45	0.0704	7.8551	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
488	7.7379	17.45	0.0704	7.8564	45.20
489	7.7387	17.45	0.0705	7.8577	45.20
490	7.7396	17.45	0.0705	7.8590	45.20
491	7.7405	17.45	0.0705	7.8602	45.20
492	7.7414	17.45	0.0705	7.8615	45.20
493	7.7423	17.45	0.0705	7.8628	45.20
494	7.7432	17.45	0.0705	7.8641	45.20
495	7.7440	17.45	0.0705	7.8654	45.20
496	7.7449	17.45	0.0705	7.8667	45.20
497	7.7458	17.45	0.0705	7.8680	45.20
498	7.7467	17.45	0.0705	7.8693	45.20
499	7.7476	17.45	0.0705	7.8706	45.20
500	7.7485	17.45	0.0705	7.8719	45.20
501	7.7494	17.45	0.0706	7.8732	45.20
502	7.7503	17.45	0.0706	7.8745	45.20
503	7.7512	17.45	0.0706	7.8758	45.20
504	7.7521	17.45	0.0706	7.8772	45.20
505	7.7530	17.45	0.0706	7.8785	45.20
506	7.7539	17.45	0.0706	7.8798	45.20
507	7.7548	17.45	0.0706	7.8811	45.20
508	7.7557	17.45	0.0706	7.8824	45.20
509	7.7566	17.45	0.0706	7.8837	45.20
510	7.7575	17.45	0.0706	7.8851	45.20
511	7.7584	17.45	0.0706	7.8864	45.20
512	7.7593	17.45	0.0706	7.8877	45.20
513	7.7602	17.45	0.0707	7.8890	45.20
514	7.7612	17.45	0.0707	7.8904	45.20
515	7.7621	17.45	0.0707	7.8917	45.20
516	7.7630	17.45	0.0707	7.8930	45.20
517	7.7639	17.45	0.0707	7.8943	45.20
518	7.7648	17.45	0.0707	7.8957	45.20
519	7.7657	17.45	0.0707	7.8970	45.20
520	7.7667	17.45	0.0707	7.8984	45.20
521	7.7676	17.45	0.0707	7.8997	45.20
522	7.7685	17.45	0.0707	7.9010	45.20
523	7.7694	17.45	0.0707	7.9024	45.20
524	7.7704	17.45	0.0708	7.9037	45.20
525	7.7713	17.45	0.0708	7.9051	45.20
526	7.7722	17.45	0.0708	7.9064	45.20
527	7.7731	17.45	0.0708	7.9078	45.20
528	7.7741	17.45	0.0708	7.9091	45.20

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
529	7.7750	17.45	0.0708	7.9105	45.20
530	7.7759	17.45	0.0708	7.9118	45.20
531	7.7769	17.45	0.0708	7.9132	45.20
532	7.7778	17.45	0.0708	7.9145	45.20
533	7.7788	17.45	0.0708	7.9159	45.20
534	7.7797	17.45	0.0708	7.9173	45.20
535	7.7806	17.45	0.0708	7.9186	45.20
536	7.7816	17.45	0.0709	7.9200	45.20
537	7.7825	17.45	0.0709	7.9214	45.20
538	7.7835	17.45	0.0709	7.9227	45.20
539	7.7844	17.45	0.0709	7.9241	45.20
540	7.7854	17.45	0.0709	7.9255	45.20
541	7.7863	17.45	0.0709	7.9268	45.20
542	7.7873	17.45	0.0709	7.9282	45.20
543	7.7882	17.45	0.0709	7.9296	45.20
544	7.7892	17.45	0.0709	7.9310	45.20
545	7.7901	17.45	0.0709	7.9323	45.20
546	7.7911	17.45	0.0709	7.9337	45.20
547	7.7920	17.45	0.0710	7.9351	45.20
548	7.7930	17.45	0.0710	7.9365	45.20
549	7.7939	17.45	0.0710	7.9379	45.20
550	7.7949	17.45	0.0710	7.9393	45.20
551	7.7959	17.45	0.0710	7.9406	45.20
552	7.7968	17.45	0.0710	7.9420	45.20
553	7.7978	17.45	0.0710	7.9434	45.20
554	7.7988	17.45	0.0710	7.9448	45.20
555	7.7997	17.45	0.0710	7.9462	45.20
556	7.8007	17.45	0.0710	7.9476	45.20
557	7.8017	17.45	0.0710	7.9490	45.20
558	7.8026	17.45	0.0711	7.9504	45.20
559	7.8036	17.45	0.0711	7.9518	45.20
560	7.8046	17.45	0.0711	7.9532	45.20
561	7.8055	17.45	0.0711	7.9546	45.20
562	7.8065	17.45	0.0711	7.9560	45.20
563	7.8075	17.45	0.0711	7.9574	45.20
564	7.8085	17.45	0.0711	7.9588	45.20
565	7.8095	17.45	0.0711	7.9602	45.20
566	7.8104	17.45	0.0711	7.9617	45.20
567	7.8114	17.45	0.0711	7.9631	45.20
568	7.8124	17.45	0.0711	7.9645	45.20
569	7.8134	17.45	0.0712	7.9659	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
570	7.8144	17.45	0.0712	7.9673	45.20
571	7.8154	17.45	0.0712	7.9687	45.20
572	7.8163	17.45	0.0712	7.9702	45.20
573	7.8173	17.45	0.0712	7.9716	45.20
574	7.8183	17.45	0.0712	7.9730	45.20
575	7.8193	17.45	0.0712	7.9744	45.20
576	7.8203	17.45	0.0712	7.9759	45.20
577	7.8213	17.45	0.0712	7.9773	45.20
578	7.8223	17.45	0.0712	7.9787	45.20
579	7.8233	17.45	0.0713	7.9801	45.20
580	7.8243	17.45	0.0713	7.9816	45.20
581	7.8253	17.45	0.0713	7.9830	45.20
582	7.8263	17.45	0.0713	7.9844	45.20
583	7.8273	17.45	0.0713	7.9859	45.20
584	7.8283	17.45	0.0713	7.9873	45.20
585	7.8293	17.45	0.0713	7.9888	45.20
586	7.8303	17.45	0.0713	7.9902	45.20
587	7.8313	17.45	0.0713	7.9916	45.20
588	7.8323	17.45	0.0713	7.9931	45.20
589	7.8333	17.45	0.0713	7.9945	45.20
590	7.8344	17.45	0.0714	7.9960	45.20
591	7.8354	17.45	0.0714	7.9974	45.20
592	7.8364	17.45	0.0714	7.9989	45.20
593	7.8374	17.45	0.0714	8.0003	45.20
594	7.8384	17.45	0.0714	8.0018	45.20
595	7.8394	17.45	0.0714	8.0033	45.20
596	7.8404	17.45	0.0714	8.0047	45.20
597	7.8415	17.45	0.0714	8.0062	45.20
598	7.8425	17.45	0.0714	8.0076	45.20
599	7.8435	17.45	0.0714	8.0091	45.20
600	7.8445	17.45	0.0715	8.0106	45.20
601	7.8456	17.45	0.0715	8.0120	45.20
602	7.8466	17.45	0.0715	8.0135	45.20
603	7.8476	17.45	0.0715	8.0150	45.20
604	7.8486	17.45	0.0715	8.0164	45.20
605	7.8497	17.45	0.0715	8.0179	45.20
606	7.8507	17.45	0.0715	8.0194	45.20
607	7.8517	17.45	0.0715	8.0208	45.20
608	7.8528	17.45	0.0715	8.0223	45.20
609	7.8538	17.45	0.0715	8.0238	45.20
610	7.8548	17.45	0.0715	8.0253	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
611	7.8559	17.45	0.0716	8.0267	45.20
612	7.8569	17.45	0.0716	8.0282	45.20
613	7.8579	17.45	0.0716	8.0297	45.20
614	7.8590	17.45	0.0716	8.0312	45.20
615	7.8600	17.45	0.0716	8.0327	45.20
616	7.8611	17.45	0.0716	8.0342	45.20
617	7.8621	17.45	0.0716	8.0356	45.20
618	7.8632	17.45	0.0716	8.0371	45.20
619	7.8642	17.45	0.0716	8.0386	45.20
620	7.8652	17.45	0.0716	8.0401	45.20
621	7.8663	17.45	0.0717	8.0416	45.20
622	7.8673	17.45	0.0717	8.0431	45.20
623	7.8684	17.45	0.0717	8.0446	45.20
624	7.8695	17.45	0.0717	8.0461	45.20
625	7.8705	17.45	0.0717	8.0476	45.20
626	7.8716	17.45	0.0717	8.0491	45.20
627	7.8726	17.45	0.0717	8.0506	45.20
628	7.8737	17.45	0.0717	8.0521	45.20
629	7.8747	17.45	0.0717	8.0536	45.20
630	7.8758	17.45	0.0717	8.0551	45.20
631	7.8769	17.45	0.0718	8.0566	45.20
632	7.8779	17.45	0.0718	8.0581	45.20
633	7.8790	17.45	0.0718	8.0596	45.20
634	7.8800	17.45	0.0718	8.0612	45.20
635	7.8811	17.45	0.0718	8.0627	45.20
636	7.8822	17.45	0.0718	8.0642	45.20
637	7.8832	17.45	0.0718	8.0657	45.20
638	7.8843	17.45	0.0718	8.0672	45.20
639	7.8854	17.45	0.0718	8.0687	45.20
640	7.8865	17.45	0.0718	8.0703	45.20
641	7.8875	17.45	0.0719	8.0718	45.20
642	7.8886	17.45	0.0719	8.0733	45.20
643	7.8897	17.45	0.0719	8.0748	45.20
644	7.8907	17.45	0.0719	8.0764	45.20
645	7.8918	17.45	0.0719	8.0779	45.20
646	7.8929	17.45	0.0719	8.0794	45.20
647	7.8940	17.45	0.0719	8.0809	45.20
648	7.8951	17.45	0.0719	8.0825	45.20
649	7.8961	17.45	0.0719	8.0840	45.20
650	7.8972	17.45	0.0720	8.0855	45.20
651	7.8983	17.45	0.0720	8.0871	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
652	7.8994	17.45	0.0720	8.0886	45.20
653	7.9005	17.45	0.0720	8.0901	45.20
654	7.9016	17.45	0.0720	8.0917	45.20
655	7.9027	17.45	0.0720	8.0932	45.20
656	7.9038	17.45	0.0720	8.0948	45.20
657	7.9048	17.45	0.0720	8.0963	45.20
658	7.9059	17.45	0.0720	8.0979	45.20
659	7.9070	17.45	0.0720	8.0994	45.20
660	7.9081	17.45	0.0721	8.1009	45.20
661	7.9092	17.45	0.0721	8.1025	45.20
662	7.9103	17.45	0.0721	8.1040	45.20
663	7.9114	17.45	0.0721	8.1056	45.20
664	7.9125	17.45	0.0721	8.1071	45.20
665	7.9136	17.45	0.0721	8.1087	45.20
666	7.9147	17.45	0.0721	8.1103	45.20
667	7.9158	17.45	0.0721	8.1118	45.20
668	7.9169	17.45	0.0721	8.1134	45.20
669	7.9180	17.45	0.0721	8.1149	45.20
670	7.9191	17.45	0.0721	8.1165	45.20
671	7.9202	17.45	0.0722	8.1181	45.20
672	7.9214	17.45	0.0722	8.1196	45.20
673	7.9225	17.45	0.0722	8.1212	45.20
674	7.9236	17.45	0.0722	8.1227	45.20
675	7.9247	17.45	0.0722	8.1243	45.20
676	7.9258	17.45	0.0722	8.1259	45.20
677	7.9269	17.45	0.0722	8.1275	45.20
678	7.9280	17.45	0.0722	8.1290	45.20
679	7.9291	17.45	0.0722	8.1306	45.20
680	7.9303	17.45	0.0722	8.1322	45.20
681	7.9314	17.45	0.0722	8.1338	45.20
682	7.9325	17.45	0.0722	8.1353	45.20
683	7.9336	17.45	0.0722	8.1369	45.20
684	7.9347	17.45	0.0722	8.1385	45.20
685	7.9359	17.45	0.0722	8.1401	45.20
686	7.9370	17.45	0.0722	8.1417	45.20
687	7.9381	17.45	0.0722	8.1432	45.20
688	7.9392	17.45	0.0723	8.1448	45.20
689	7.9404	17.45	0.0723	8.1464	45.20
690	7.9415	17.45	0.0723	8.1480	45.20
691	7.9426	17.45	0.0723	8.1496	45.20
692	7.9438	17.45	0.0723	8.1512	45.20

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
693	7.9449	17.45	0.0723	8.1528	45.20
694	7.9460	17.45	0.0723	8.1544	45.20
695	7.9472	17.45	0.0723	8.1560	45.20
696	7.9483	17.45	0.0723	8.1576	45.20
697	7.9494	17.45	0.0723	8.1592	45.20
698	7.9506	17.45	0.0723	8.1608	45.20
699	7.9517	17.45	0.0723	8.1624	45.20
700	7.9529	17.45	0.0723	8.1640	45.20
701	7.9540	17.45	0.0723	8.1656	45.20
702	7.9551	17.45	0.0723	8.1672	45.20
703	7.9563	17.45	0.0723	8.1688	45.20
704	7.9574	17.45	0.0724	8.1704	45.20
705	7.9586	17.45	0.0724	8.1720	45.20
706	7.9597	17.45	0.0724	8.1736	45.20
707	7.9609	17.45	0.0724	8.1752	45.20
708	7.9620	17.45	0.0724	8.1768	45.20
709	7.9632	17.45	0.0724	8.1784	45.20
710	7.9643	17.45	0.0724	8.1801	45.20
711	7.9655	17.45	0.0724	8.1817	45.20
712	7.9666	17.45	0.0724	8.1833	45.20
713	7.9678	17.45	0.0724	8.1849	45.20
714	7.9689	17.45	0.0724	8.1865	45.20
715	7.9701	17.45	0.0724	8.1881	45.20
716	7.9713	17.45	0.0724	8.1898	45.20
717	7.9724	17.45	0.0724	8.1914	45.20
718	7.9736	17.45	0.0724	8.1930	45.20
719	7.9747	17.45	0.0724	8.1946	45.20
720	7.9759	17.45	0.0725	8.1963	45.20
721	7.9771	17.45	0.0725	8.1979	45.20
722	7.9782	17.45	0.0725	8.1995	45.20
723	7.9794	17.45	0.0725	8.2012	45.20
724	7.9806	17.45	0.0725	8.2028	45.20
725	7.9817	17.45	0.0725	8.2044	45.20
726	7.9829	17.45	0.0725	8.2061	45.20
727	7.9841	17.45	0.0725	8.2077	45.20
728	7.9852	17.45	0.0725	8.2094	45.20
729	7.9864	17.45	0.0725	8.2110	45.20
730	7.9876	17.45	0.0725	8.2126	45.20
731	7.9887	17.45	0.0725	8.2143	45.20
732	7.9899	17.45	0.0725	8.2159	45.20
733	7.9911	17.45	0.0725	8.2176	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
734	7.9923	17.45	0.0725	8.2192	45.20
735	7.9935	17.45	0.0726	8.2209	45.20
736	7.9946	17.45	0.0726	8.2225	45.20
737	7.9958	17.45	0.0726	8.2242	45.20
738	7.9970	17.45	0.0726	8.2258	45.20
739	7.9982	17.45	0.0726	8.2275	45.20
740	7.9994	17.45	0.0726	8.2291	45.20
741	8.0005	17.45	0.0726	8.2308	45.20
742	8.0017	17.45	0.0726	8.2324	45.20
743	8.0029	17.45	0.0726	8.2341	45.20
744	8.0041	17.45	0.0726	8.2358	45.20
745	8.0053	17.45	0.0726	8.2374	45.20
746	8.0065	17.45	0.0726	8.2391	45.20
747	8.0077	17.45	0.0726	8.2407	45.20
748	8.0089	17.45	0.0726	8.2424	45.20
749	8.0101	17.45	0.0726	8.2441	45.20
750	8.0113	17.45	0.0726	8.2457	45.20
751	8.0125	17.45	0.0727	8.2474	45.20
752	8.0136	17.45	0.0727	8.2491	45.20
753	8.0148	17.45	0.0727	8.2507	45.20
754	8.0160	17.45	0.0727	8.2524	45.20
755	8.0172	17.45	0.0727	8.2541	45.20
756	8.0184	17.45	0.0727	8.2558	45.20
757	8.0196	17.45	0.0727	8.2574	45.20
758	8.0208	17.45	0.0727	8.2591	45.20
759	8.0221	17.45	0.0727	8.2608	45.20
760	8.0233	17.45	0.0727	8.2625	45.20
761	8.0245	17.45	0.0727	8.2642	45.20
762	8.0257	17.45	0.0727	8.2658	45.20
763	8.0269	17.45	0.0727	8.2675	45.20
764	8.0281	17.45	0.0727	8.2692	45.20
765	8.0293	17.45	0.0727	8.2709	45.20
766	8.0305	17.45	0.0728	8.2726	45.20
767	8.0317	17.45	0.0728	8.2743	45.20
768	8.0329	17.45	0.0728	8.2760	45.20
769	8.0341	17.45	0.0728	8.2776	45.20
770	8.0354	17.45	0.0728	8.2793	45.20
771	8.0366	17.45	0.0728	8.2810	45.20
772	8.0378	17.45	0.0728	8.2827	45.20
773	8.0390	17.45	0.0728	8.2844	45.20
774	8.0402	17.45	0.0728	8.2861	45.20

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
775	8.0414	17.45	0.0728	8.2878	45.20
776	8.0427	17.45	0.0728	8.2895	45.20
777	8.0439	17.45	0.0728	8.2912	45.20
778	8.0451	17.45	0.0728	8.2929	45.20
779	8.0463	17.45	0.0728	8.2946	45.20
780	8.0476	17.45	0.0728	8.2963	45.20
781	8.0488	17.45	0.0729	8.2980	45.20
782	8.0500	17.45	0.0729	8.2997	45.20
783	8.0512	17.45	0.0729	8.3014	45.20
784	8.0525	17.45	0.0729	8.3031	45.20
785	8.0537	17.45	0.0729	8.3049	45.20
786	8.0549	17.45	0.0729	8.3066	45.20
787	8.0562	17.45	0.0729	8.3083	45.20
788	8.0574	17.45	0.0729	8.3100	45.20
789	8.0586	17.45	0.0729	8.3117	45.20
790	8.0599	17.45	0.0729	8.3134	45.20
791	8.0611	17.45	0.0729	8.3151	45.20
792	8.0623	17.45	0.0729	8.3169	45.20
793	8.0636	17.45	0.0729	8.3186	45.20
794	8.0648	17.45	0.0729	8.3203	45.20
795	8.0661	17.45	0.0729	8.3220	45.20
796	8.0673	17.45	0.0730	8.3237	45.20
797	8.0685	17.45	0.0730	8.3255	45.20
798	8.0698	17.45	0.0730	8.3272	45.20
799	8.0710	17.45	0.0730	8.3289	45.20
800	8.0723	17.45	0.0730	8.3306	45.20
801	8.0735	17.45	0.0730	8.3324	45.20
802	8.0748	17.45	0.0730	8.3341	45.20
803	8.0760	17.45	0.0730	8.3358	45.20
804	8.0773	17.45	0.0730	8.3376	45.20
805	8.0785	17.45	0.0730	8.3393	45.20
806	8.0798	17.45	0.0730	8.3410	45.20
807	8.0810	17.45	0.0730	8.3428	45.20
808	8.0823	17.45	0.0730	8.3445	45.20
809	8.0835	17.45	0.0730	8.3462	45.20
810	8.0848	17.45	0.0730	8.3480	45.20
811	8.0860	17.45	0.0731	8.3497	45.20
812	8.0873	17.45	0.0731	8.3515	45.20
813	8.0886	17.45	0.0731	8.3532	45.20
814	8.0898	17.45	0.0731	8.3550	45.20
815	8.0911	17.45	0.0731	8.3567	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
816	8.0923	17.45	0.0731	8.3584	45.20
817	8.0936	17.45	0.0731	8.3602	45.20
818	8.0949	17.45	0.0731	8.3619	45.20
819	8.0961	17.45	0.0731	8.3637	45.20
820	8.0974	17.45	0.0731	8.3654	45.20
821	8.0987	17.45	0.0731	8.3672	45.20
822	8.0999	17.45	0.0731	8.3689	45.20
823	8.1012	17.45	0.0731	8.3707	45.20
824	8.1025	17.45	0.0731	8.3725	45.20
825	8.1037	17.45	0.0732	8.3742	45.20
826	8.1050	17.45	0.0732	8.3760	45.20
827	8.1063	17.45	0.0732	8.3777	45.20
828	8.1075	17.45	0.0732	8.3795	45.20
829	8.1088	17.45	0.0732	8.3812	45.20
830	8.1101	17.45	0.0732	8.3830	45.20
831	8.1114	17.45	0.0732	8.3848	45.20
832	8.1126	17.45	0.0732	8.3865	45.20
833	8.1139	17.45	0.0732	8.3883	45.20
834	8.1152	17.45	0.0732	8.3901	45.20
835	8.1165	17.45	0.0732	8.3918	45.20
836	8.1178	17.45	0.0732	8.3936	45.20
837	8.1190	17.45	0.0732	8.3954	45.20
838	8.1203	17.45	0.0732	8.3971	45.20
839	8.1216	17.45	0.0732	8.3989	45.20
840	8.1229	17.45	0.0733	8.4007	45.20
841	8.1242	17.45	0.0733	8.4025	45.20
842	8.1255	17.45	0.0733	8.4042	45.20
843	8.1267	17.45	0.0733	8.4060	45.20
844	8.1280	17.45	0.0733	8.4078	45.20
845	8.1293	17.45	0.0733	8.4096	45.20
846	8.1306	17.45	0.0733	8.4113	45.20
847	8.1319	17.45	0.0733	8.4131	45.20
848	8.1332	17.45	0.0733	8.4149	45.20
849	8.1345	17.45	0.0733	8.4167	45.20
850	8.1358	17.45	0.0733	8.4185	45.20
851	8.1371	17.45	0.0733	8.4202	45.20
852	8.1384	17.45	0.0733	8.4220	45.20
853	8.1397	17.45	0.0733	8.4238	45.20
854	8.1410	17.45	0.0734	8.4256	45.20
855	8.1423	17.45	0.0734	8.4274	45.20
856	8.1436	17.45	0.0734	8.4292	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
857	8.1449	17.45	0.0734	8.4310	45.20
858	8.1462	17.45	0.0734	8.4328	45.20
859	8.1475	17.45	0.0734	8.4346	45.20
860	8.1488	17.45	0.0734	8.4364	45.20
861	8.1501	17.45	0.0734	8.4382	45.20
862	8.1514	17.45	0.0734	8.4400	45.20
863	8.1527	17.45	0.0734	8.4417	45.20
864	8.1540	17.45	0.0734	8.4435	45.20
865	8.1553	17.45	0.0734	8.4453	45.20
866	8.1566	17.45	0.0734	8.4471	45.20
867	8.1579	17.45	0.0734	8.4489	45.20
868	8.1593	17.45	0.0735	8.4508	45.20
869	8.1606	17.45	0.0735	8.4526	45.20
870	8.1619	17.45	0.0735	8.4544	45.20
871	8.1632	17.45	0.0735	8.4562	45.20
872	8.1645	17.45	0.0735	8.4580	45.20
873	8.1658	17.45	0.0735	8.4598	45.20
874	8.1672	17.45	0.0735	8.4616	45.20
875	8.1685	17.45	0.0735	8.4634	45.20
876	8.1698	17.45	0.0735	8.4652	45.20
877	8.1711	17.45	0.0735	8.4670	45.20
878	8.1724	17.45	0.0735	8.4688	45.20
879	8.1738	17.45	0.0735	8.4706	45.20
880	8.1751	17.45	0.0735	8.4725	45.20
881	8.1764	17.45	0.0735	8.4743	45.20
882	8.1777	17.45	0.0736	8.4761	45.20
883	8.1791	17.45	0.0736	8.4779	45.20
884	8.1804	17.45	0.0736	8.4797	45.20
885	8.1817	17.45	0.0736	8.4816	45.20
886	8.1831	17.45	0.0736	8.4834	45.20
887	8.1844	17.45	0.0736	8.4852	45.20
888	8.1857	17.45	0.0736	8.4870	45.20
889	8.1870	17.45	0.0736	8.4888	45.20
890	8.1884	17.45	0.0736	8.4907	45.20
891	8.1897	17.45	0.0736	8.4925	45.20
892	8.1911	17.45	0.0736	8.4943	45.20
893	8.1924	17.45	0.0736	8.4962	45.20
894	8.1937	17.45	0.0736	8.4980	45.20
895	8.1951	17.45	0.0737	8.4998	45.20
896	8.1964	17.45	0.0737	8.5016	45.20
897	8.1977	17.45	0.0737	8.5035	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
898	8.1991	17.45	0.0737	8.5053	45.20
899	8.2004	17.45	0.0737	8.5071	45.20
900	8.2018	17.45	0.0737	8.5090	45.20
901	8.2031	17.45	0.0737	8.5108	45.20
902	8.2045	17.45	0.0737	8.5127	45.20
903	8.2058	17.45	0.0737	8.5145	45.20
904	8.2072	17.45	0.0737	8.5163	45.20
905	8.2085	17.45	0.0737	8.5182	45.20
906	8.2099	17.45	0.0737	8.5200	45.20
907	8.2112	17.45	0.0737	8.5219	45.20
908	8.2126	17.45	0.0737	8.5237	45.20
909	8.2139	17.45	0.0738	8.5255	45.20
910	8.2153	17.45	0.0738	8.5274	45.20
911	8.2166	17.45	0.0738	8.5292	45.20
912	8.2180	17.45	0.0738	8.5311	45.20
913	8.2193	17.45	0.0738	8.5329	45.20
914	8.2207	17.45	0.0738	8.5348	45.20
915	8.2220	17.45	0.0738	8.5366	45.20
916	8.2234	17.45	0.0738	8.5385	45.20
917	8.2248	17.45	0.0738	8.5403	45.20
918	8.2261	17.45	0.0738	8.5422	45.20
919	8.2275	17.45	0.0738	8.5440	45.20
920	8.2288	17.45	0.0738	8.5459	45.20
921	8.2302	17.45	0.0738	8.5478	45.20
922	8.2316	17.45	0.0739	8.5496	45.20
923	8.2329	17.45	0.0739	8.5515	45.20
924	8.2343	17.45	0.0739	8.5533	45.20
925	8.2357	17.45	0.0739	8.5552	45.20
926	8.2370	17.45	0.0739	8.5571	45.20
927	8.2384	17.45	0.0739	8.5589	45.20
928	8.2398	17.45	0.0739	8.5608	45.20
929	8.2411	17.45	0.0739	8.5626	45.20
930	8.2425	17.45	0.0739	8.5645	45.20
931	8.2439	17.45	0.0739	8.5664	45.20
932	8.2453	17.45	0.0739	8.5682	45.20
933	8.2466	17.45	0.0739	8.5701	45.20
934	8.2480	17.45	0.0739	8.5720	45.20
935	8.2494	17.45	0.0739	8.5738	45.20
936	8.2508	17.45	0.0740	8.5757	45.20
937	8.2521	17.45	0.0740	8.5776	45.20
938	8.2535	17.45	0.0740	8.5795	45.20

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
939	8.2549	17.45	0.0740	8.5813	45.20
940	8.2563	17.45	0.0740	8.5832	45.20
941	8.2577	17.45	0.0740	8.5851	45.20
942	8.2591	17.45	0.0740	8.5870	45.20
943	8.2604	17.45	0.0740	8.5888	45.20
944	8.2618	17.45	0.0740	8.5907	45.20
945	8.2632	17.45	0.0740	8.5926	45.20
946	8.2646	17.45	0.0740	8.5945	45.20
947	8.2660	17.45	0.0740	8.5964	45.20
948	8.2674	17.45	0.0740	8.5982	45.20
949	8.2688	17.45	0.0741	8.6001	45.20
950	8.2701	17.45	0.0741	8.6020	45.20
951	8.2715	17.45	0.0741	8.6039	45.20
952	8.2729	17.45	0.0741	8.6058	45.20
953	8.2743	17.45	0.0741	8.6077	45.20
954	8.2757	17.45	0.0741	8.6095	45.20
955	8.2771	17.45	0.0741	8.6114	45.20
956	8.2785	17.45	0.0741	8.6133	45.20
957	8.2799	17.45	0.0741	8.6152	45.20
958	8.2813	17.45	0.0741	8.6171	45.20
959	8.2827	17.45	0.0741	8.6190	45.20
960	8.2841	17.45	0.0741	8.6209	45.20
961	8.2855	17.45	0.0741	8.6228	45.20
962	8.2869	17.45	0.0742	8.6247	45.20
963	8.2883	17.45	0.0742	8.6266	45.20
964	8.2897	17.45	0.0742	8.6285	45.20
965	8.2911	17.45	0.0742	8.6304	45.20
966	8.2925	17.45	0.0742	8.6323	45.20
967	8.2939	17.45	0.0742	8.6342	45.20
968	8.2953	17.45	0.0742	8.6361	45.20
969	8.2967	17.45	0.0742	8.6380	45.20
970	8.2981	17.45	0.0742	8.6399	45.20
971	8.2995	17.45	0.0742	8.6418	45.20
972	8.3010	17.45	0.0742	8.6437	45.20
973	8.3024	17.45	0.0742	8.6456	45.20
974	8.3038	17.45	0.0742	8.6475	45.20
975	8.3052	17.45	0.0743	8.6494	45.20
976	8.3066	17.45	0.0743	8.6513	45.20
977	8.3080	17.45	0.0743	8.6532	45.20
978	8.3094	17.45	0.0743	8.6551	45.20
979	8.3108	17.45	0.0743	8.6570	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
980	8.3123	17.45	0.0743	8.6589	45.20
981	8.3137	17.45	0.0743	8.6609	45.20
982	8.3151	17.45	0.0743	8.6628	45.20
983	8.3165	17.45	0.0743	8.6647	45.20
984	8.3179	17.45	0.0743	8.6666	45.20
985	8.3194	17.45	0.0743	8.6685	45.20
986	8.3208	17.45	0.0743	8.6704	45.20
987	8.3222	17.45	0.0743	8.6723	45.20
988	8.3236	17.45	0.0744	8.6743	45.20
989	8.3251	17.45	0.0744	8.6762	45.20
990	8.3265	17.45	0.0744	8.6781	45.20
991	8.3279	17.45	0.0744	8.6800	45.20
992	8.3293	17.45	0.0744	8.6820	45.20
993	8.3308	17.45	0.0744	8.6839	45.20
994	8.3322	17.45	0.0744	8.6858	45.20
995	8.3336	17.45	0.0744	8.6877	45.20
996	8.3351	17.45	0.0744	8.6896	45.20
997	8.3365	17.45	0.0744	8.6916	45.20
998	8.3379	17.45	0.0744	8.6935	45.20
999	8.3394	17.45	0.0744	8.6954	45.20
1000	8.3408	17.45	0.0744	8.6974	45.20
1001	8.3422	17.45	0.0745	8.6993	45.20
1002	8.3437	17.45	0.0745	8.7012	45.20
1003	8.3451	17.45	0.0745	8.7031	45.20
1004	8.3465	17.45	0.0745	8.7051	45.20
1005	8.3480	17.45	0.0745	8.7070	45.20
1006	8.3494	17.45	0.0745	8.7089	45.20
1007	8.3509	17.45	0.0745	8.7109	45.20
1008	8.3523	17.45	0.0745	8.7128	45.20
1009	8.3537	17.45	0.0745	8.7148	45.20
1010	8.3552	17.45	0.0745	8.7167	45.20
1011	8.3566	17.45	0.0745	8.7186	45.20
1012	8.3581	17.45	0.0745	8.7206	45.20
1013	8.3595	17.45	0.0746	8.7225	45.20
1014	8.3610	17.45	0.0746	8.7245	45.20
1015	8.3624	17.45	0.0746	8.7264	45.20
1016	8.3639	17.45	0.0746	8.7283	45.20
1017	8.3653	17.45	0.0746	8.7303	45.20
1018	8.3668	17.45	0.0746	8.7322	45.20
1019	8.3682	17.45	0.0746	8.7342	45.20
1020	8.3697	17.45	0.0746	8.7361	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1021	8.3711	17.45	0.0746	8.7381	45.20
1022	8.3726	17.45	0.0746	8.7400	45.20
1023	8.3740	17.45	0.0746	8.7420	45.20
1024	8.3755	17.45	0.0746	8.7439	45.20
1025	8.3769	17.45	0.0746	8.7459	45.20
1026	8.3784	17.45	0.0747	8.7478	45.20
1027	8.3798	17.45	0.0747	8.7498	45.20
1028	8.3813	17.45	0.0747	8.7517	45.20
1029	8.3828	17.45	0.0747	8.7537	45.20
1030	8.3842	17.45	0.0747	8.7556	45.20
1031	8.3857	17.45	0.0747	8.7576	45.20
1032	8.3871	17.45	0.0747	8.7595	45.20
1033	8.3886	17.45	0.0747	8.7615	45.20
1034	8.3901	17.45	0.0747	8.7635	45.20
1035	8.3915	17.45	0.0747	8.7654	45.20
1036	8.3930	17.45	0.0747	8.7674	45.20
1037	8.3945	17.45	0.0747	8.7693	45.20
1038	8.3959	17.45	0.0747	8.7713	45.20
1039	8.3974	17.45	0.0748	8.7733	45.20
1040	8.3989	17.45	0.0748	8.7752	45.20
1041	8.4003	17.45	0.0748	8.7772	45.20
1042	8.4018	17.45	0.0748	8.7791	45.20
1043	8.4033	17.45	0.0748	8.7811	45.20
1044	8.4048	17.45	0.0748	8.7831	45.20
1045	8.4062	17.45	0.0748	8.7850	45.20
1046	8.4077	17.45	0.0748	8.7870	45.20
1047	8.4092	17.45	0.0748	8.7890	45.20
1048	8.4106	17.45	0.0748	8.7909	45.20
1049	8.4121	17.45	0.0748	8.7929	45.20
1050	8.4136	17.45	0.0748	8.7949	45.20
1051	8.4151	17.45	0.0749	8.7969	45.20
1052	8.4166	17.45	0.0749	8.7988	45.20
1053	8.4180	17.45	0.0749	8.8008	45.20
1054	8.4195	17.45	0.0749	8.8028	45.20
1055	8.4210	17.45	0.0749	8.8048	45.20
1056	8.4225	17.45	0.0749	8.8067	45.20
1057	8.4240	17.45	0.0749	8.8087	45.20
1058	8.4254	17.45	0.0749	8.8107	45.20
1059	8.4269	17.45	0.0749	8.8127	45.20
1060	8.4284	17.45	0.0749	8.8146	45.20
1061	8.4299	17.45	0.0749	8.8166	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1062	8.4314	17.45	0.0749	8.8186	45.20
1063	8.4329	17.45	0.0750	8.8206	45.20
1064	8.4344	17.45	0.0750	8.8226	45.20
1065	8.4359	17.45	0.0750	8.8246	45.20
1066	8.4373	17.45	0.0750	8.8265	45.20
1067	8.4388	17.45	0.0750	8.8285	45.20
1068	8.4403	17.45	0.0750	8.8305	45.20
1069	8.4418	17.45	0.0750	8.8325	45.20
1070	8.4433	17.45	0.0750	8.8345	45.20
1071	8.4448	17.45	0.0750	8.8365	45.20
1072	8.4463	17.45	0.0750	8.8385	45.20
1073	8.4478	17.45	0.0750	8.8404	45.20
1074	8.4493	17.45	0.0750	8.8424	45.20
1075	8.4508	17.45	0.0750	8.8444	45.20
1076	8.4523	17.45	0.0751	8.8464	45.20
1077	8.4538	17.45	0.0751	8.8484	45.20
1078	8.4553	17.45	0.0751	8.8504	45.20
1079	8.4568	17.45	0.0751	8.8524	45.20
1080	8.4583	17.45	0.0751	8.8544	45.20
1081	8.4598	17.45	0.0751	8.8564	45.20
1082	8.4613	17.45	0.0751	8.8584	45.20
1083	8.4628	17.45	0.0751	8.8604	45.20
1084	8.4643	17.45	0.0751	8.8624	45.20
1085	8.4658	17.45	0.0751	8.8644	45.20
1086	8.4673	17.45	0.0751	8.8664	45.20
1087	8.4688	17.45	0.0751	8.8684	45.20
1088	8.4703	17.45	0.0752	8.8704	45.20
1089	8.4718	17.45	0.0752	8.8724	45.20
1090	8.4733	17.45	0.0752	8.8744	45.20
1091	8.4749	17.45	0.0752	8.8764	45.20
1092	8.4764	17.45	0.0752	8.8784	45.20
1093	8.4779	17.45	0.0752	8.8804	45.20
1094	8.4794	17.45	0.0752	8.8824	45.20
1095	8.4809	17.45	0.0752	8.8844	45.20
1096	8.4824	17.45	0.0752	8.8864	45.20
1097	8.4839	17.45	0.0752	8.8884	45.20
1098	8.4854	17.45	0.0752	8.8904	45.20
1099	8.4870	17.45	0.0752	8.8924	45.20
1100	8.4885	17.45	0.0753	8.8945	45.20
1101	8.4900	17.45	0.0753	8.8965	45.20
1102	8.4915	17.45	0.0753	8.8985	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1103	8.4930	17.45	0.0753	8.9005	45.20
1104	8.4946	17.45	0.0753	8.9025	45.20
1105	8.4961	17.45	0.0753	8.9045	45.20
1106	8.4976	17.45	0.0753	8.9065	45.20
1107	8.4991	17.45	0.0753	8.9086	45.20
1108	8.5006	17.45	0.0753	8.9106	45.20
1109	8.5022	17.45	0.0753	8.9126	45.20
1110	8.5037	17.45	0.0753	8.9146	45.20
1111	8.5052	17.45	0.0753	8.9166	45.20
1112	8.5067	17.45	0.0754	8.9186	45.20
1113	8.5083	17.45	0.0754	8.9207	45.20
1114	8.5098	17.45	0.0754	8.9227	45.20
1115	8.5113	17.45	0.0754	8.9247	45.20
1116	8.5129	17.45	0.0754	8.9267	45.20
1117	8.5144	17.45	0.0754	8.9288	45.20
1118	8.5159	17.45	0.0754	8.9308	45.20
1119	8.5174	17.45	0.0754	8.9328	45.20
1120	8.5190	17.45	0.0754	8.9348	45.20
1121	8.5205	17.45	0.0754	8.9369	45.20
1122	8.5220	17.45	0.0754	8.9389	45.20
1123	8.5236	17.45	0.0754	8.9409	45.20
1124	8.5251	17.45	0.0755	8.9429	45.20
1125	8.5267	17.45	0.0755	8.9450	45.20
1126	8.5282	17.45	0.0755	8.9470	45.20
1127	8.5297	17.45	0.0755	8.9490	45.20
1128	8.5313	17.45	0.0755	8.9511	45.20
1129	8.5328	17.45	0.0755	8.9531	45.20
1130	8.5344	17.45	0.0755	8.9551	45.20
1131	8.5359	17.45	0.0755	8.9572	45.20
1132	8.5374	17.45	0.0755	8.9592	45.20
1133	8.5390	17.45	0.0755	8.9612	45.20
1134	8.5405	17.45	0.0755	8.9633	45.20
1135	8.5421	17.45	0.0755	8.9653	45.20
1136	8.5436	17.45	0.0756	8.9673	45.20
1137	8.5452	17.45	0.0756	8.9694	45.20
1138	8.5467	17.45	0.0756	8.9714	45.20
1139	8.5482	17.45	0.0756	8.9735	45.20
1140	8.5498	17.45	0.0756	8.9755	45.20
1141	8.5513	17.45	0.0756	8.9775	45.20
1142	8.5529	17.45	0.0756	8.9796	45.20
1143	8.5544	17.45	0.0756	8.9816	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1144	8.5560	17.45	0.0756	8.9837	45.20
1145	8.5575	17.45	0.0756	8.9857	45.20
1146	8.5591	17.45	0.0756	8.9878	45.20
1147	8.5607	17.45	0.0757	8.9898	45.20
1148	8.5622	17.45	0.0757	8.9919	45.20
1149	8.5638	17.45	0.0757	8.9939	45.20
1150	8.5653	17.45	0.0757	8.9960	45.20
1151	8.5669	17.45	0.0757	8.9980	45.20
1152	8.5684	17.45	0.0757	9.0001	45.20
1153	8.5700	17.45	0.0757	9.0021	45.20
1154	8.5715	17.45	0.0757	9.0042	45.20
1155	8.5731	17.45	0.0757	9.0062	45.20
1156	8.5747	17.45	0.0757	9.0083	45.20
1157	8.5762	17.45	0.0757	9.0103	45.20
1158	8.5778	17.45	0.0757	9.0124	45.20
1159	8.5794	17.45	0.0758	9.0144	45.20
1160	8.5809	17.45	0.0758	9.0165	45.20
1161	8.5825	17.45	0.0758	9.0185	45.20
1162	8.5840	17.45	0.0758	9.0206	45.20
1163	8.5856	17.45	0.0758	9.0226	45.20
1164	8.5872	17.45	0.0758	9.0247	45.20
1165	8.5887	17.45	0.0758	9.0268	45.20
1166	8.5903	17.45	0.0758	9.0288	45.20
1167	8.5919	17.45	0.0758	9.0309	45.20
1168	8.5934	17.45	0.0758	9.0329	45.20
1169	8.5950	17.45	0.0758	9.0350	45.20
1170	8.5966	17.45	0.0758	9.0371	45.20
1171	8.5982	17.45	0.0759	9.0391	45.20
1172	8.5997	17.45	0.0759	9.0412	45.20
1173	8.6013	17.45	0.0759	9.0433	45.20
1174	8.6029	17.45	0.0759	9.0453	45.20
1175	8.6045	17.45	0.0759	9.0474	45.20
1176	8.6060	17.45	0.0759	9.0495	45.20
1177	8.6076	17.45	0.0759	9.0515	45.20
1178	8.6092	17.45	0.0759	9.0536	45.20
1179	8.6108	17.45	0.0759	9.0557	45.20
1180	8.6123	17.45	0.0759	9.0577	45.20
1181	8.6139	17.45	0.0759	9.0598	45.20
1182	8.6155	17.45	0.0760	9.0619	45.20
1183	8.6171	17.45	0.0760	9.0639	45.20
1184	8.6187	17.45	0.0760	9.0660	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1185	8.6202	17.45	0.0760	9.0681	45.20
1186	8.6218	17.45	0.0760	9.0702	45.20
1187	8.6234	17.45	0.0760	9.0722	45.20
1188	8.6250	17.45	0.0760	9.0743	45.20
1189	8.6266	17.45	0.0760	9.0764	45.20
1190	8.6282	17.45	0.0760	9.0785	45.20
1191	8.6297	17.45	0.0760	9.0805	45.20
1192	8.6313	17.45	0.0760	9.0826	45.20
1193	8.6329	17.45	0.0760	9.0847	45.20
1194	8.6345	17.45	0.0761	9.0868	45.20
1195	8.6361	17.45	0.0761	9.0889	45.20
1196	8.6377	17.45	0.0761	9.0909	45.20
1197	8.6393	17.45	0.0761	9.0930	45.20
1198	8.6409	17.45	0.0761	9.0951	45.20
1199	8.6425	17.45	0.0761	9.0972	45.20
1200	8.6440	17.45	0.0761	9.0993	45.20
1201	8.6456	17.45	0.0761	9.1014	45.20
1202	8.6472	17.45	0.0761	9.1034	45.20
1203	8.6488	17.45	0.0761	9.1055	45.20
1204	8.6504	17.45	0.0761	9.1076	45.20
1205	8.6520	17.45	0.0761	9.1097	45.20
1206	8.6536	17.45	0.0762	9.1118	45.20
1207	8.6552	17.45	0.0762	9.1139	45.20
1208	8.6568	17.45	0.0762	9.1160	45.20
1209	8.6584	17.45	0.0762	9.1180	45.20
1210	8.6600	17.45	0.0762	9.1201	45.20
1211	8.6616	17.45	0.0762	9.1222	45.20
1212	8.6632	17.45	0.0762	9.1243	45.20
1213	8.6648	17.45	0.0762	9.1264	45.20
1214	8.6664	17.45	0.0762	9.1285	45.20
1215	8.6680	17.45	0.0762	9.1306	45.20
1216	8.6696	17.45	0.0762	9.1327	45.20
1217	8.6712	17.45	0.0763	9.1348	45.20
1218	8.6728	17.45	0.0763	9.1369	45.20
1219	8.6744	17.45	0.0763	9.1390	45.20
1220	8.6760	17.45	0.0763	9.1411	45.20
1221	8.6776	17.45	0.0763	9.1432	45.20
1222	8.6793	17.45	0.0763	9.1453	45.20
1223	8.6809	17.45	0.0763	9.1474	45.20
1224	8.6825	17.45	0.0763	9.1495	45.20
1225	8.6841	17.45	0.0763	9.1516	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1226	8.6857	17.45	0.0763	9.1537	45.20
1227	8.6873	17.45	0.0763	9.1558	45.20
1228	8.6889	17.45	0.0764	9.1579	45.20
1229	8.6905	17.45	0.0764	9.1600	45.20
1230	8.6921	17.45	0.0764	9.1621	45.20
1231	8.6938	17.45	0.0764	9.1642	45.20
1232	8.6954	17.45	0.0764	9.1663	45.20
1233	8.6970	17.45	0.0764	9.1684	45.20
1234	8.6986	17.45	0.0764	9.1705	45.20
1235	8.7002	17.45	0.0764	9.1726	45.20
1236	8.7018	17.45	0.0764	9.1747	45.20
1237	8.7035	17.45	0.0764	9.1769	45.20
1238	8.7051	17.45	0.0764	9.1790	45.20
1239	8.7067	17.45	0.0764	9.1811	45.20
1240	8.7083	17.45	0.0765	9.1832	45.20
1241	8.7100	17.45	0.0765	9.1853	45.20
1242	8.7116	17.45	0.0765	9.1874	45.20
1243	8.7132	17.45	0.0765	9.1895	45.20
1244	8.7148	17.45	0.0765	9.1917	45.20
1245	8.7165	17.45	0.0765	9.1938	45.20
1246	8.7181	17.45	0.0765	9.1959	45.20
1247	8.7197	17.45	0.0765	9.1980	45.20
1248	8.7213	17.45	0.0765	9.2001	45.20
1249	8.7230	17.45	0.0765	9.2023	45.20
1250	8.7246	17.45	0.0765	9.2044	45.20
1251	8.7262	17.45	0.0766	9.2065	45.20
1252	8.7279	17.45	0.0766	9.2086	45.20
1253	8.7295	17.45	0.0766	9.2108	45.20
1254	8.7311	17.45	0.0766	9.2129	45.20
1255	8.7328	17.45	0.0766	9.2150	45.20
1256	8.7344	17.45	0.0766	9.2172	45.20
1257	8.7361	17.45	0.0766	9.2193	45.20
1258	8.7377	17.45	0.0766	9.2214	45.20
1259	8.7393	17.45	0.0766	9.2235	45.20
1260	8.7410	17.45	0.0766	9.2257	45.20
1261	8.7426	17.45	0.0766	9.2278	45.20
1262	8.7443	17.45	0.0767	9.2300	45.20
1263	8.7459	17.45	0.0767	9.2321	45.20
1264	8.7475	17.45	0.0767	9.2342	45.20
1265	8.7492	17.45	0.0767	9.2364	45.20
1266	8.7508	17.45	0.0767	9.2385	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1267	8.7525	17.45	0.0767	9.2406	45.20
1268	8.7541	17.45	0.0767	9.2428	45.20
1269	8.7558	17.45	0.0767	9.2449	45.20
1270	8.7574	17.45	0.0767	9.2471	45.20
1271	8.7591	17.45	0.0767	9.2492	45.20
1272	8.7607	17.45	0.0767	9.2514	45.20
1273	8.7624	17.45	0.0768	9.2535	45.20
1274	8.7640	17.45	0.0768	9.2557	45.20
1275	8.7657	17.45	0.0768	9.2578	45.20
1276	8.7673	17.45	0.0768	9.2600	45.20
1277	8.7690	17.45	0.0768	9.2621	45.20
1278	8.7707	17.45	0.0768	9.2643	45.20
1279	8.7723	17.45	0.0768	9.2664	45.20
1280	8.7740	17.45	0.0768	9.2686	45.20
1281	8.7756	17.45	0.0768	9.2707	45.20
1282	8.7773	17.45	0.0768	9.2729	45.20
1283	8.7790	17.45	0.0768	9.2750	45.20
1284	8.7806	17.45	0.0769	9.2772	45.20
1285	8.7823	17.45	0.0769	9.2794	45.20
1286	8.7839	17.45	0.0769	9.2815	45.20
1287	8.7856	17.45	0.0769	9.2837	45.20
1288	8.7873	17.45	0.0769	9.2858	45.20
1289	8.7889	17.45	0.0769	9.2880	45.20
1290	8.7906	17.45	0.0769	9.2902	45.20
1291	8.7923	17.45	0.0769	9.2923	45.20
1292	8.7939	17.45	0.0769	9.2945	45.20
1293	8.7956	17.45	0.0769	9.2967	45.20
1294	8.7973	17.45	0.0769	9.2988	45.20
1295	8.7990	17.45	0.0770	9.3010	45.20
1296	8.8006	17.45	0.0770	9.3032	45.20
1297	8.8023	17.45	0.0770	9.3053	45.20
1298	8.8040	17.45	0.0770	9.3075	45.20
1299	8.8056	17.45	0.0770	9.3097	45.20
1300	8.8073	17.45	0.0770	9.3118	45.20
1301	8.8090	17.45	0.0770	9.3140	45.20
1302	8.8107	17.45	0.0770	9.3162	45.20
1303	8.8124	17.45	0.0770	9.3184	45.20
1304	8.8140	17.45	0.0770	9.3205	45.20
1305	8.8157	17.45	0.0770	9.3227	45.20
1306	8.8174	17.45	0.0771	9.3249	45.20
1307	8.8191	17.45	0.0771	9.3271	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1308	8.8208	17.45	0.0771	9.3293	45.20
1309	8.8224	17.45	0.0771	9.3314	45.20
1310	8.8241	17.45	0.0771	9.3336	45.20
1311	8.8258	17.45	0.0771	9.3358	45.20
1312	8.8275	17.45	0.0771	9.3380	45.20
1313	8.8292	17.45	0.0771	9.3402	45.20
1314	8.8309	17.45	0.0771	9.3424	45.20
1315	8.8326	17.45	0.0771	9.3446	45.20
1316	8.8342	17.45	0.0771	9.3467	45.20
1317	8.8359	17.45	0.0772	9.3489	45.20
1318	8.8376	17.45	0.0772	9.3511	45.20
1319	8.8393	17.45	0.0772	9.3533	45.20
1320	8.8410	17.45	0.0772	9.3555	45.20
1321	8.8427	17.45	0.0772	9.3577	45.20
1322	8.8444	17.45	0.0772	9.3599	45.20
1323	8.8461	17.45	0.0772	9.3621	45.20
1324	8.8478	17.45	0.0772	9.3643	45.20
1325	8.8495	17.45	0.0772	9.3665	45.20
1326	8.8512	17.45	0.0772	9.3687	45.20
1327	8.8529	17.45	0.0772	9.3709	45.20
1328	8.8546	17.45	0.0773	9.3731	45.20
1329	8.8563	17.45	0.0773	9.3753	45.20
1330	8.8580	17.45	0.0773	9.3775	45.20
1331	8.8597	17.45	0.0773	9.3797	45.20
1332	8.8614	17.45	0.0773	9.3819	45.20
1333	8.8631	17.45	0.0773	9.3841	45.20
1334	8.8648	17.45	0.0773	9.3863	45.20
1335	8.8665	17.45	0.0773	9.3885	45.20
1336	8.8682	17.45	0.0773	9.3907	45.20
1337	8.8699	17.45	0.0773	9.3929	45.20
1338	8.8716	17.45	0.0774	9.3951	45.20
1339	8.8733	17.45	0.0774	9.3973	45.20
1340	8.8750	17.45	0.0774	9.3995	45.20
1341	8.8768	17.45	0.0774	9.4018	45.20
1342	8.8785	17.45	0.0774	9.4040	45.20
1343	8.8802	17.45	0.0774	9.4062	45.20
1344	8.8819	17.45	0.0774	9.4084	45.20
1345	8.8836	17.45	0.0774	9.4106	45.20
1346	8.8853	17.45	0.0774	9.4128	45.20
1347	8.8870	17.45	0.0774	9.4150	45.20
1348	8.8887	17.45	0.0774	9.4173	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1349	8.8905	17.45	0.0775	9.4195	45.20
1350	8.8922	17.45	0.0775	9.4217	45.20
1351	8.8939	17.45	0.0775	9.4239	45.20
1352	8.8956	17.45	0.0775	9.4261	45.20
1353	8.8973	17.45	0.0775	9.4284	45.20
1354	8.8991	17.45	0.0775	9.4306	45.20
1355	8.9008	17.45	0.0775	9.4328	45.20
1356	8.9025	17.45	0.0775	9.4350	45.20
1357	8.9042	17.45	0.0775	9.4373	45.20
1358	8.9060	17.45	0.0775	9.4395	45.20
1359	8.9077	17.45	0.0775	9.4417	45.20
1360	8.9094	17.45	0.0776	9.4439	45.20
1361	8.9111	17.45	0.0776	9.4462	45.20
1362	8.9129	17.45	0.0776	9.4484	45.20
1363	8.9146	17.45	0.0776	9.4506	45.20
1364	8.9163	17.45	0.0776	9.4529	45.20
1365	8.9180	17.45	0.0776	9.4551	45.20
1366	8.9198	17.45	0.0776	9.4573	45.20
1367	8.9215	17.45	0.0776	9.4596	45.20
1368	8.9232	17.45	0.0776	9.4618	45.20
1369	8.9250	17.45	0.0776	9.4641	45.20
1370	8.9267	17.45	0.0777	9.4663	45.20
1371	8.9284	17.45	0.0777	9.4685	45.20
1372	8.9302	17.45	0.0777	9.4708	45.20
1373	8.9319	17.45	0.0777	9.4730	45.20
1374	8.9337	17.45	0.0777	9.4753	45.20
1375	8.9354	17.45	0.0777	9.4775	45.20
1376	8.9371	17.45	0.0777	9.4797	45.20
1377	8.9389	17.45	0.0777	9.4820	45.20
1378	8.9406	17.45	0.0777	9.4842	45.20
1379	8.9424	17.45	0.0777	9.4865	45.20
1380	8.9441	17.45	0.0777	9.4887	45.20
1381	8.9458	17.45	0.0778	9.4910	45.20
1382	8.9476	17.45	0.0778	9.4932	45.20
1383	8.9493	17.45	0.0778	9.4955	45.20
1384	8.9511	17.45	0.0778	9.4977	45.20
1385	8.9528	17.45	0.0778	9.5000	45.20
1386	8.9546	17.45	0.0778	9.5022	45.20
1387	8.9563	17.45	0.0778	9.5045	45.20
1388	8.9581	17.45	0.0778	9.5067	45.20
1389	8.9598	17.45	0.0778	9.5090	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1390	8.9616	17.45	0.0778	9.5113	45.20
1391	8.9633	17.45	0.0779	9.5135	45.20
1392	8.9651	17.45	0.0779	9.5158	45.20
1393	8.9668	17.45	0.0779	9.5180	45.20
1394	8.9686	17.45	0.0779	9.5203	45.20
1395	8.9703	17.45	0.0779	9.5226	45.20
1396	8.9721	17.45	0.0779	9.5248	45.20
1397	8.9738	17.45	0.0779	9.5271	45.20
1398	8.9756	17.45	0.0779	9.5293	45.20
1399	8.9774	17.45	0.0779	9.5316	45.20
1400	8.9791	17.45	0.0779	9.5339	45.20
1401	8.9809	17.45	0.0779	9.5361	45.20
1402	8.9826	17.45	0.0780	9.5384	45.20
1403	8.9844	17.45	0.0780	9.5407	45.20
1404	8.9862	17.45	0.0780	9.5429	45.20
1405	8.9879	17.45	0.0780	9.5452	45.20
1406	8.9897	17.45	0.0780	9.5475	45.20
1407	8.9914	17.45	0.0780	9.5498	45.20
1408	8.9932	17.45	0.0780	9.5520	45.20
1409	8.9950	17.45	0.0780	9.5543	45.20
1410	8.9967	17.45	0.0780	9.5566	45.20
1411	8.9985	17.45	0.0780	9.5589	45.20
1412	9.0003	17.45	0.0781	9.5611	45.20
1413	9.0020	17.45	0.0781	9.5634	45.20
1414	9.0038	17.45	0.0781	9.5657	45.20
1415	9.0056	17.45	0.0781	9.5680	45.20
1416	9.0074	17.45	0.0781	9.5703	45.20
1417	9.0091	17.45	0.0781	9.5725	45.20
1418	9.0109	17.45	0.0781	9.5748	45.20
1419	9.0127	17.45	0.0781	9.5771	45.20
1420	9.0144	17.45	0.0781	9.5794	45.20
1421	9.0162	17.45	0.0781	9.5817	45.20
1422	9.0180	17.45	0.0781	9.5840	45.20
1423	9.0198	17.45	0.0782	9.5862	45.20
1424	9.0216	17.45	0.0782	9.5885	45.20
1425	9.0233	17.45	0.0782	9.5908	45.20
1426	9.0251	17.45	0.0782	9.5931	45.20
1427	9.0269	17.45	0.0782	9.5954	45.20
1428	9.0287	17.45	0.0782	9.5977	45.20
1429	9.0305	17.45	0.0782	9.6000	45.20
1430	9.0322	17.45	0.0782	9.6023	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1431	9.0340	17.45	0.0782	9.6046	45.20
1432	9.0358	17.45	0.0782	9.6069	45.20
1433	9.0376	17.45	0.0783	9.6092	45.20
1434	9.0394	17.45	0.0783	9.6115	45.20
1435	9.0412	17.45	0.0783	9.6138	45.20
1436	9.0429	17.45	0.0783	9.6161	45.20
1437	9.0447	17.45	0.0783	9.6184	45.20
1438	9.0465	17.45	0.0783	9.6207	45.20
1439	9.0483	17.45	0.0783	9.6230	45.20
1440	9.0501	17.45	0.0783	9.6253	45.20
1441	9.0519	17.45	0.0783	9.6276	45.20
1442	9.0537	17.45	0.0783	9.6299	45.20
1443	9.0555	17.45	0.0784	9.6322	45.20
1444	9.0573	17.45	0.0784	9.6345	45.20
1445	9.0591	17.45	0.0784	9.6368	45.20
1446	9.0609	17.45	0.0784	9.6391	45.20
1447	9.0627	17.45	0.0784	9.6414	45.20
1448	9.0644	17.45	0.0784	9.6437	45.20
1449	9.0662	17.45	0.0784	9.6460	45.20
1450	9.0680	17.45	0.0784	9.6483	45.20
1451	9.0698	17.45	0.0784	9.6506	45.20
1452	9.0716	17.45	0.0784	9.6530	45.20
1453	9.0734	17.45	0.0785	9.6553	45.20
1454	9.0752	17.45	0.0785	9.6576	45.20
1455	9.0770	17.45	0.0785	9.6599	45.20
1456	9.0788	17.45	0.0785	9.6622	45.20
1457	9.0807	17.45	0.0785	9.6645	45.20
1458	9.0825	17.45	0.0785	9.6669	45.20
1459	9.0843	17.45	0.0785	9.6692	45.20
1460	9.0861	17.45	0.0785	9.6715	45.20
1461	9.0879	17.45	0.0785	9.6738	45.20
1462	9.0897	17.45	0.0785	9.6761	45.20
1463	9.0915	17.45	0.0786	9.6785	45.20
1464	9.0933	17.45	0.0786	9.6808	45.20
1465	9.0951	17.45	0.0786	9.6831	45.20
1466	9.0969	17.45	0.0786	9.6854	45.20
1467	9.0987	17.45	0.0786	9.6878	45.20
1468	9.1005	17.45	0.0786	9.6901	45.20
1469	9.1023	17.45	0.0786	9.6924	45.20
1470	9.1042	17.45	0.0786	9.6947	45.20
1471	9.1060	17.45	0.0786	9.6971	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1472	9.1078	17.45	0.0786	9.6994	45.20
1473	9.1096	17.45	0.0786	9.7017	45.20
1474	9.1114	17.45	0.0787	9.7041	45.20
1475	9.1132	17.45	0.0787	9.7064	45.20
1476	9.1151	17.45	0.0787	9.7087	45.20
1477	9.1169	17.45	0.0787	9.7111	45.20
1478	9.1187	17.45	0.0787	9.7134	45.20
1479	9.1205	17.45	0.0787	9.7157	45.20
1480	9.1223	17.45	0.0787	9.7181	45.20
1481	9.1242	17.45	0.0787	9.7204	45.20
1482	9.1260	17.45	0.0787	9.7228	45.20
1483	9.1278	17.45	0.0787	9.7251	45.20
1484	9.1296	17.45	0.0788	9.7274	45.20
1485	9.1315	17.45	0.0788	9.7298	45.20
1486	9.1333	17.45	0.0788	9.7321	45.20
1487	9.1351	17.45	0.0788	9.7345	45.20
1488	9.1369	17.45	0.0788	9.7368	45.20
1489	9.1388	17.45	0.0788	9.7392	45.20
1490	9.1406	17.45	0.0788	9.7415	45.20
1491	9.1424	17.45	0.0788	9.7439	45.20
1492	9.1442	17.45	0.0788	9.7462	45.20
1493	9.1461	17.45	0.0788	9.7486	45.20
1494	9.1479	17.45	0.0789	9.7509	45.20
1495	9.1497	17.45	0.0789	9.7533	45.20
1496	9.1516	17.45	0.0789	9.7556	45.20
1497	9.1534	17.45	0.0789	9.7580	45.20
1498	9.1552	17.45	0.0789	9.7603	45.20
1499	9.1571	17.45	0.0789	9.7627	45.20
1500	9.1589	17.45	0.0789	9.7650	45.20
1501	9.1608	17.45	0.0789	9.7674	45.20
1502	9.1626	17.45	0.0789	9.7698	45.20
1503	9.1644	17.45	0.0789	9.7721	45.20
1504	9.1663	17.45	0.0790	9.7745	45.20
1505	9.1681	17.45	0.0790	9.7768	45.20
1506	9.1699	17.45	0.0790	9.7792	45.20
1507	9.1718	17.45	0.0790	9.7816	45.20
1508	9.1736	17.45	0.0790	9.7839	45.20
1509	9.1755	17.45	0.0790	9.7863	45.20
1510	9.1773	17.45	0.0790	9.7887	45.20
1511	9.1792	17.45	0.0790	9.7910	45.20
1512	9.1810	17.45	0.0790	9.7934	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1513	9.1829	17.45	0.0790	9.7958	45.20
1514	9.1847	17.45	0.0791	9.7981	45.20
1515	9.1866	17.45	0.0791	9.8005	45.20
1516	9.1884	17.45	0.0791	9.8029	45.20
1517	9.1902	17.45	0.0791	9.8052	45.20
1518	9.1921	17.45	0.0791	9.8076	45.20
1519	9.1939	17.45	0.0791	9.8100	45.20
1520	9.1958	17.45	0.0791	9.8124	45.20
1521	9.1977	17.45	0.0791	9.8147	45.20
1522	9.1995	17.45	0.0791	9.8171	45.20
1523	9.2014	17.45	0.0791	9.8195	45.20
1524	9.2032	17.45	0.0791	9.8219	45.20
1525	9.2051	17.45	0.0791	9.8242	45.20
1526	9.2069	17.45	0.0792	9.8266	45.20
1527	9.2088	17.45	0.0792	9.8290	45.20
1528	9.2106	17.45	0.0792	9.8314	45.20
1529	9.2125	17.45	0.0792	9.8338	45.20
1530	9.2144	17.45	0.0792	9.8362	45.20
1531	9.2162	17.45	0.0792	9.8385	45.20
1532	9.2181	17.45	0.0792	9.8409	45.20
1533	9.2199	17.45	0.0792	9.8433	45.20
1534	9.2218	17.45	0.0792	9.8457	45.20
1535	9.2237	17.45	0.0792	9.8481	45.20
1536	9.2255	17.45	0.0792	9.8505	45.20
1537	9.2274	17.45	0.0792	9.8529	45.20
1538	9.2293	17.45	0.0793	9.8553	45.20
1539	9.2311	17.45	0.0793	9.8577	45.20
1540	9.2330	17.45	0.0793	9.8600	45.20
1541	9.2348	17.45	0.0793	9.8624	45.20
1542	9.2367	17.45	0.0793	9.8648	45.20
1543	9.2386	17.45	0.0793	9.8672	45.20
1544	9.2405	17.45	0.0793	9.8696	45.20
1545	9.2423	17.45	0.0793	9.8720	45.20
1546	9.2442	17.45	0.0793	9.8744	45.20
1547	9.2461	17.45	0.0793	9.8768	45.20
1548	9.2479	17.45	0.0793	9.8792	45.20
1549	9.2498	17.45	0.0793	9.8816	45.20
1550	9.2517	17.45	0.0794	9.8840	45.20
1551	9.2536	17.45	0.0794	9.8864	45.20
1552	9.2554	17.45	0.0794	9.8889	45.20
1553	9.2573	17.45	0.0794	9.8913	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1554	9.2592	17.45	0.0794	9.8937	45.20
1555	9.2611	17.45	0.0794	9.8961	45.20
1556	9.2629	17.45	0.0794	9.8985	45.20
1557	9.2648	17.45	0.0794	9.9009	45.20
1558	9.2667	17.45	0.0794	9.9033	45.20
1559	9.2686	17.45	0.0794	9.9057	45.20
1560	9.2705	17.45	0.0794	9.9081	45.20
1561	9.2723	17.45	0.0794	9.9105	45.20
1562	9.2742	17.45	0.0795	9.9130	45.20
1563	9.2761	17.45	0.0795	9.9154	45.20
1564	9.2780	17.45	0.0795	9.9178	45.20
1565	9.2799	17.45	0.0795	9.9202	45.20
1566	9.2818	17.45	0.0795	9.9226	45.20
1567	9.2837	17.45	0.0795	9.9250	45.20
1568	9.2855	17.45	0.0795	9.9275	45.20
1569	9.2874	17.45	0.0795	9.9299	45.20
1570	9.2893	17.45	0.0795	9.9323	45.20
1571	9.2912	17.45	0.0795	9.9347	45.20
1572	9.2931	17.45	0.0795	9.9372	45.20
1573	9.2950	17.45	0.0795	9.9396	45.20
1574	9.2969	17.45	0.0796	9.9420	45.20
1575	9.2988	17.45	0.0796	9.9444	45.20
1576	9.3007	17.45	0.0796	9.9469	45.20
1577	9.3026	17.45	0.0796	9.9493	45.20
1578	9.3045	17.45	0.0796	9.9517	45.20
1579	9.3063	17.45	0.0796	9.9542	45.20
1580	9.3082	17.45	0.0796	9.9566	45.20
1581	9.3101	17.45	0.0796	9.9590	45.20
1582	9.3120	17.45	0.0796	9.9615	45.20
1583	9.3139	17.45	0.0796	9.9639	45.20
1584	9.3158	17.45	0.0796	9.9663	45.20
1585	9.3177	17.45	0.0796	9.9688	45.20
1586	9.3196	17.45	0.0797	9.9712	45.20
1587	9.3215	17.45	0.0797	9.9736	45.20
1588	9.3234	17.45	0.0797	9.9761	45.20
1589	9.3253	17.45	0.0797	9.9785	45.20
1590	9.3272	17.45	0.0797	9.9810	45.20
1591	9.3291	17.45	0.0797	9.9834	45.20
1592	9.3311	17.45	0.0797	9.9859	45.20
1593	9.3330	17.45	0.0797	9.9883	45.20
1594	9.3349	17.45	0.0797	9.9908	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1595	9.3368	17.45	0.0797	9.9932	45.20
1596	9.3387	17.45	0.0797	9.9956	45.20
1597	9.3406	17.45	0.0797	9.9981	45.20
1598	9.3425	17.45	0.0798	10.0005	45.20
1599	9.3444	17.45	0.0798	10.0030	45.20
1600	9.3463	17.45	0.0798	10.0055	45.20
1601	9.3482	17.45	0.0798	10.0079	45.20
1602	9.3501	17.45	0.0798	10.0104	45.20
1603	9.3521	17.45	0.0798	10.0128	45.20
1604	9.3540	17.45	0.0798	10.0153	45.20
1605	9.3559	17.45	0.0798	10.0177	45.20
1606	9.3578	17.45	0.0798	10.0202	45.20
1607	9.3597	17.45	0.0798	10.0226	45.20
1608	9.3616	17.45	0.0798	10.0251	45.20
1609	9.3635	17.45	0.0798	10.0276	45.20
1610	9.3655	17.45	0.0799	10.0300	45.20
1611	9.3674	17.45	0.0799	10.0325	45.20
1612	9.3693	17.45	0.0799	10.0350	45.20
1613	9.3712	17.45	0.0799	10.0374	45.20
1614	9.3731	17.45	0.0799	10.0399	45.20
1615	9.3751	17.45	0.0799	10.0424	45.20
1616	9.3770	17.45	0.0799	10.0448	45.20
1617	9.3789	17.45	0.0799	10.0473	45.20
1618	9.3808	17.45	0.0799	10.0498	45.20
1619	9.3828	17.45	0.0799	10.0522	45.20
1620	9.3847	17.45	0.0799	10.0547	45.20
1621	9.3866	17.45	0.0799	10.0572	45.20
1622	9.3885	17.45	0.0800	10.0596	45.20
1623	9.3905	17.45	0.0800	10.0621	45.20
1624	9.3924	17.45	0.0800	10.0646	45.20
1625	9.3943	17.45	0.0800	10.0671	45.20
1626	9.3963	17.45	0.0800	10.0696	45.20
1627	9.3982	17.45	0.0800	10.0720	45.20
1628	9.4001	17.45	0.0800	10.0745	45.20
1629	9.4020	17.45	0.0800	10.0770	45.20
1630	9.4040	17.45	0.0800	10.0795	45.20
1631	9.4059	17.45	0.0800	10.0820	45.20
1632	9.4078	17.45	0.0800	10.0844	45.20
1633	9.4098	17.45	0.0800	10.0869	45.20
1634	9.4117	17.45	0.0801	10.0894	45.20
1635	9.4137	17.45	0.0801	10.0919	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1636	9.4156	17.45	0.0801	10.0944	45.20
1637	9.4175	17.45	0.0801	10.0969	45.20
1638	9.4195	17.45	0.0801	10.0994	45.20
1639	9.4214	17.45	0.0801	10.1019	45.20
1640	9.4233	17.45	0.0801	10.1043	45.20
1641	9.4253	17.45	0.0801	10.1068	45.20
1642	9.4272	17.45	0.0801	10.1093	45.20
1643	9.4292	17.45	0.0801	10.1118	45.20
1644	9.4311	17.45	0.0801	10.1143	45.20
1645	9.4331	17.45	0.0802	10.1168	45.20
1646	9.4350	17.45	0.0802	10.1193	45.20
1647	9.4369	17.45	0.0802	10.1218	45.20
1648	9.4389	17.45	0.0802	10.1243	45.20
1649	9.4408	17.45	0.0802	10.1268	45.20
1650	9.4428	17.45	0.0802	10.1293	45.20
1651	9.4447	17.45	0.0802	10.1318	45.20
1652	9.4467	17.45	0.0802	10.1343	45.20
1653	9.4486	17.45	0.0802	10.1368	45.20
1654	9.4506	17.45	0.0802	10.1393	45.20
1655	9.4525	17.45	0.0802	10.1418	45.20
1656	9.4545	17.45	0.0802	10.1444	45.20
1657	9.4564	17.45	0.0803	10.1469	45.20
1658	9.4584	17.45	0.0803	10.1494	45.20
1659	9.4603	17.45	0.0803	10.1519	45.20
1660	9.4623	17.45	0.0803	10.1544	45.20
1661	9.4643	17.45	0.0803	10.1569	45.20
1662	9.4662	17.45	0.0803	10.1594	45.20
1663	9.4682	17.45	0.0803	10.1619	45.20
1664	9.4701	17.45	0.0803	10.1645	45.20
1665	9.4721	17.45	0.0803	10.1670	45.20
1666	9.4740	17.45	0.0803	10.1695	45.20
1667	9.4760	17.45	0.0803	10.1720	45.20
1668	9.4780	17.45	0.0803	10.1745	45.20
1669	9.4799	17.45	0.0804	10.1770	45.20
1670	9.4819	17.45	0.0804	10.1796	45.20
1671	9.4838	17.45	0.0804	10.1821	45.20
1672	9.4858	17.45	0.0804	10.1846	45.20
1673	9.4878	17.45	0.0804	10.1871	45.20
1674	9.4897	17.45	0.0804	10.1897	45.20
1675	9.4917	17.45	0.0804	10.1922	45.20
1676	9.4937	17.45	0.0804	10.1947	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1677	9.4956	17.45	0.0804	10.1973	45.20
1678	9.4976	17.45	0.0804	10.1998	45.20
1679	9.4996	17.45	0.0804	10.2023	45.20
1680	9.5015	17.45	0.0805	10.2048	45.20
1681	9.5035	17.45	0.0805	10.2074	45.20
1682	9.5055	17.45	0.0805	10.2099	45.20
1683	9.5075	17.45	0.0805	10.2125	45.20
1684	9.5094	17.45	0.0805	10.2150	45.20
1685	9.5114	17.45	0.0805	10.2175	45.20
1686	9.5134	17.45	0.0805	10.2201	45.20
1687	9.5153	17.45	0.0805	10.2226	45.20
1688	9.5173	17.45	0.0805	10.2251	45.20
1689	9.5193	17.45	0.0805	10.2277	45.20
1690	9.5213	17.45	0.0805	10.2302	45.20
1691	9.5232	17.45	0.0805	10.2328	45.20
1692	9.5252	17.45	0.0806	10.2353	45.20
1693	9.5272	17.45	0.0806	10.2379	45.20
1694	9.5292	17.45	0.0806	10.2404	45.20
1695	9.5312	17.45	0.0806	10.2430	45.20
1696	9.5331	17.45	0.0806	10.2455	45.20
1697	9.5351	17.45	0.0806	10.2481	45.20
1698	9.5371	17.45	0.0806	10.2506	45.20
1699	9.5391	17.45	0.0806	10.2532	45.20
1700	9.5411	17.45	0.0806	10.2557	45.20
1701	9.5431	17.45	0.0806	10.2583	45.20
1702	9.5450	17.45	0.0806	10.2608	45.20
1703	9.5470	17.45	0.0807	10.2634	45.20
1704	9.5490	17.45	0.0807	10.2659	45.20
1705	9.5510	17.45	0.0807	10.2685	45.20
1706	9.5530	17.45	0.0807	10.2711	45.20
1707	9.5550	17.45	0.0807	10.2736	45.20
1708	9.5570	17.45	0.0807	10.2762	45.20
1709	9.5590	17.45	0.0807	10.2787	45.20
1710	9.5610	17.45	0.0807	10.2813	45.20
1711	9.5629	17.45	0.0807	10.2839	45.20
1712	9.5649	17.45	0.0807	10.2864	45.20
1713	9.5669	17.45	0.0807	10.2890	45.20
1714	9.5689	17.45	0.0807	10.2916	45.20
1715	9.5709	17.45	0.0808	10.2941	45.20
1716	9.5729	17.45	0.0808	10.2967	45.20
1717	9.5749	17.45	0.0808	10.2993	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1718	9.5769	17.45	0.0808	10.3018	45.20
1719	9.5789	17.45	0.0808	10.3044	45.20
1720	9.5809	17.45	0.0808	10.3070	45.20
1721	9.5829	17.45	0.0808	10.3096	45.20
1722	9.5849	17.45	0.0808	10.3121	45.20
1723	9.5869	17.45	0.0808	10.3147	45.20
1724	9.5889	17.45	0.0808	10.3173	45.20
1725	9.5909	17.45	0.0808	10.3199	45.20
1726	9.5929	17.45	0.0809	10.3225	45.20
1727	9.5949	17.45	0.0809	10.3250	45.20
1728	9.5969	17.45	0.0809	10.3276	45.20
1729	9.5989	17.45	0.0809	10.3302	45.20
1730	9.6009	17.45	0.0809	10.3328	45.20
1731	9.6029	17.45	0.0809	10.3354	45.20
1732	9.6049	17.45	0.0809	10.3380	45.20
1733	9.6069	17.45	0.0809	10.3405	45.20
1734	9.6090	17.45	0.0809	10.3431	45.20
1735	9.6110	17.45	0.0809	10.3457	45.20
1736	9.6130	17.45	0.0809	10.3483	45.20
1737	9.6150	17.45	0.0809	10.3509	45.20
1738	9.6170	17.45	0.0810	10.3535	45.20
1739	9.6190	17.45	0.0810	10.3561	45.20
1740	9.6210	17.45	0.0810	10.3587	45.20
1741	9.6230	17.45	0.0810	10.3613	45.20
1742	9.6251	17.45	0.0810	10.3639	45.20
1743	9.6271	17.45	0.0810	10.3665	45.20
1744	9.6291	17.45	0.0810	10.3691	45.20
1745	9.6311	17.45	0.0810	10.3717	45.20
1746	9.6331	17.45	0.0810	10.3743	45.20
1747	9.6351	17.45	0.0810	10.3769	45.20
1748	9.6372	17.45	0.0810	10.3795	45.20
1749	9.6392	17.45	0.0811	10.3821	45.20
1750	9.6412	17.45	0.0811	10.3847	45.20
1751	9.6432	17.45	0.0811	10.3873	45.20
1752	9.6452	17.45	0.0811	10.3899	45.20
1753	9.6473	17.45	0.0811	10.3925	45.20
1754	9.6493	17.45	0.0811	10.3951	45.20
1755	9.6513	17.45	0.0811	10.3977	45.20
1756	9.6533	17.45	0.0811	10.4004	45.20
1757	9.6554	17.45	0.0811	10.4030	45.20
1758	9.6574	17.45	0.0811	10.4056	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1759	9.6594	17.45	0.0811	10.4082	45.20
1760	9.6614	17.45	0.0811	10.4108	45.20
1761	9.6635	17.45	0.0812	10.4134	45.20
1762	9.6655	17.45	0.0812	10.4161	45.20
1763	9.6675	17.45	0.0812	10.4187	45.20
1764	9.6696	17.45	0.0812	10.4213	45.20
1765	9.6716	17.45	0.0812	10.4239	45.20
1766	9.6736	17.45	0.0812	10.4265	45.20
1767	9.6757	17.45	0.0812	10.4292	45.20
1768	9.6777	17.45	0.0812	10.4318	45.20
1769	9.6797	17.45	0.0812	10.4344	45.20
1770	9.6818	17.45	0.0812	10.4370	45.20
1771	9.6838	17.45	0.0812	10.4397	45.20
1772	9.6858	17.45	0.0813	10.4423	45.20
1773	9.6879	17.45	0.0813	10.4449	45.20
1774	9.6899	17.45	0.0813	10.4476	45.20
1775	9.6919	17.45	0.0813	10.4502	45.20
1776	9.6940	17.45	0.0813	10.4528	45.20
1777	9.6960	17.45	0.0813	10.4555	45.20
1778	9.6981	17.45	0.0813	10.4581	45.20
1779	9.7001	17.45	0.0813	10.4607	45.20
1780	9.7021	17.45	0.0813	10.4634	45.20
1781	9.7042	17.45	0.0813	10.4660	45.20
1782	9.7062	17.45	0.0813	10.4687	45.20
1783	9.7083	17.45	0.0814	10.4713	45.20
1784	9.7103	17.45	0.0814	10.4740	45.20
1785	9.7124	17.45	0.0814	10.4766	45.20
1786	9.7144	17.45	0.0814	10.4792	45.20
1787	9.7165	17.45	0.0814	10.4819	45.20
1788	9.7185	17.45	0.0814	10.4845	45.20
1789	9.7206	17.45	0.0814	10.4872	45.20
1790	9.7226	17.45	0.0814	10.4898	45.20
1791	9.7247	17.45	0.0814	10.4925	45.20
1792	9.7267	17.45	0.0814	10.4951	45.20
1793	9.7288	17.45	0.0814	10.4978	45.20
1794	9.7308	17.45	0.0815	10.5004	45.20
1795	9.7329	17.45	0.0815	10.5031	45.20
1796	9.7349	17.45	0.0815	10.5058	45.20
1797	9.7370	17.45	0.0815	10.5084	45.20
1798	9.7390	17.45	0.0815	10.5111	45.20
1799	9.7411	17.45	0.0815	10.5137	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1800	9.7432	17.45	0.0815	10.5164	45.20
1801	9.7452	17.45	0.0815	10.5191	45.20
1802	9.7473	17.45	0.0815	10.5217	45.20
1803	9.7493	17.45	0.0815	10.5244	45.20
1804	9.7514	17.45	0.0815	10.5271	45.20
1805	9.7534	17.45	0.0815	10.5297	45.20
1806	9.7555	17.45	0.0816	10.5324	45.20
1807	9.7576	17.45	0.0816	10.5351	45.20
1808	9.7596	17.45	0.0816	10.5377	45.20
1809	9.7617	17.45	0.0816	10.5404	45.20
1810	9.7638	17.45	0.0816	10.5431	45.20
1811	9.7658	17.45	0.0816	10.5457	45.20
1812	9.7679	17.45	0.0816	10.5484	45.20
1813	9.7700	17.45	0.0816	10.5511	45.20
1814	9.7720	17.45	0.0816	10.5538	45.20
1815	9.7741	17.45	0.0816	10.5564	45.20
1816	9.7762	17.45	0.0816	10.5591	45.20
1817	9.7782	17.45	0.0817	10.5618	45.20
1818	9.7803	17.45	0.0817	10.5645	45.20
1819	9.7824	17.45	0.0817	10.5672	45.20
1820	9.7845	17.45	0.0817	10.5699	45.20
1821	9.7865	17.45	0.0817	10.5725	45.20
1822	9.7886	17.45	0.0817	10.5752	45.20
1823	9.7907	17.45	0.0817	10.5779	45.20
1824	9.7927	17.45	0.0817	10.5806	45.20
1825	9.7948	17.45	0.0817	10.5833	45.20
1826	9.7969	17.45	0.0817	10.5860	45.20
1827	9.7990	17.45	0.0817	10.5887	45.20
1828	9.8010	17.45	0.0818	10.5913	45.20
1829	9.8031	17.45	0.0818	10.5940	45.20
1830	9.8052	17.45	0.0818	10.5967	45.20
1831	9.8073	17.45	0.0818	10.5994	45.20
1832	9.8094	17.45	0.0818	10.6021	45.20
1833	9.8114	17.45	0.0818	10.6048	45.20
1834	9.8135	17.45	0.0818	10.6075	45.20
1835	9.8156	17.45	0.0818	10.6102	45.20
1836	9.8177	17.45	0.0818	10.6129	45.20
1837	9.8198	17.45	0.0818	10.6156	45.20
1838	9.8218	17.45	0.0818	10.6183	45.20
1839	9.8239	17.45	0.0819	10.6210	45.20
1840	9.8260	17.45	0.0819	10.6237	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1841	9.8281	17.45	0.0819	10.6264	45.20
1842	9.8302	17.45	0.0819	10.6291	45.20
1843	9.8323	17.45	0.0819	10.6318	45.20
1844	9.8343	17.45	0.0819	10.6345	45.20
1845	9.8364	17.45	0.0819	10.6372	45.20
1846	9.8385	17.45	0.0819	10.6399	45.20
1847	9.8406	17.45	0.0819	10.6426	45.20
1848	9.8427	17.45	0.0819	10.6453	45.20
1849	9.8448	17.45	0.0819	10.6480	45.20
1850	9.8469	17.45	0.0820	10.6507	45.20
1851	9.8490	17.45	0.0820	10.6534	45.20
1852	9.8511	17.45	0.0820	10.6561	45.20
1853	9.8531	17.45	0.0820	10.6589	45.20
1854	9.8552	17.45	0.0820	10.6616	45.20
1855	9.8573	17.45	0.0820	10.6643	45.20
1856	9.8594	17.45	0.0820	10.6670	45.20
1857	9.8615	17.45	0.0820	10.6697	45.20
1858	9.8636	17.45	0.0820	10.6724	45.20
1859	9.8657	17.45	0.0820	10.6751	45.20
1860	9.8678	17.45	0.0820	10.6779	45.20
1861	9.8699	17.45	0.0821	10.6806	45.20
1862	9.8720	17.45	0.0821	10.6833	45.20
1863	9.8741	17.45	0.0821	10.6860	45.20
1864	9.8762	17.45	0.0821	10.6887	45.20
1865	9.8783	17.45	0.0821	10.6915	45.20
1866	9.8804	17.45	0.0821	10.6942	45.20
1867	9.8825	17.45	0.0821	10.6969	45.20
1868	9.8846	17.45	0.0821	10.6996	45.20
1869	9.8867	17.45	0.0821	10.7023	45.20
1870	9.8888	17.45	0.0821	10.7051	45.20
1871	9.8909	17.45	0.0821	10.7078	45.20
1872	9.8930	17.45	0.0822	10.7105	45.20
1873	9.8951	17.45	0.0822	10.7132	45.20
1874	9.8972	17.45	0.0822	10.7160	45.20
1875	9.8993	17.45	0.0822	10.7187	45.20
1876	9.9014	17.45	0.0822	10.7214	45.20
1877	9.9035	17.45	0.0822	10.7242	45.20
1878	9.9056	17.45	0.0822	10.7269	45.20
1879	9.9077	17.45	0.0822	10.7296	45.20
1880	9.9098	17.45	0.0822	10.7323	45.20
1881	9.9119	17.45	0.0822	10.7351	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1882	9.9141	17.45	0.0822	10.7378	45.20
1883	9.9162	17.45	0.0822	10.7406	45.20
1884	9.9183	17.45	0.0823	10.7433	45.20
1885	9.9204	17.45	0.0823	10.7460	45.20
1886	9.9225	17.45	0.0823	10.7488	45.20
1887	9.9246	17.45	0.0823	10.7515	45.20
1888	9.9267	17.45	0.0823	10.7542	45.20
1889	9.9288	17.45	0.0823	10.7570	45.20
1890	9.9309	17.45	0.0823	10.7597	45.20
1891	9.9331	17.45	0.0823	10.7625	45.20
1892	9.9352	17.45	0.0823	10.7652	45.20
1893	9.9373	17.45	0.0823	10.7679	45.20
1894	9.9394	17.45	0.0823	10.7707	45.20
1895	9.9415	17.45	0.0824	10.7734	45.20
1896	9.9436	17.45	0.0824	10.7762	45.20
1897	9.9457	17.45	0.0824	10.7789	45.20
1898	9.9479	17.45	0.0824	10.7817	45.20
1899	9.9500	17.45	0.0824	10.7844	45.20
1900	9.9521	17.45	0.0824	10.7872	45.20
1901	9.9542	17.45	0.0824	10.7899	45.20
1902	9.9563	17.45	0.0824	10.7927	45.20
1903	9.9585	17.45	0.0824	10.7954	45.20
1904	9.9606	17.45	0.0824	10.7982	45.20
1905	9.9627	17.45	0.0824	10.8009	45.20
1906	9.9648	17.45	0.0825	10.8037	45.20
1907	9.9669	17.45	0.0825	10.8064	45.20
1908	9.9691	17.45	0.0825	10.8092	45.20
1909	9.9712	17.45	0.0825	10.8119	45.20
1910	9.9733	17.45	0.0825	10.8147	45.20
1911	9.9754	17.45	0.0825	10.8174	45.20
1912	9.9776	17.45	0.0825	10.8202	45.20
1913	9.9797	17.45	0.0825	10.8230	45.20
1914	9.9818	17.45	0.0825	10.8257	45.20
1915	9.9839	17.45	0.0825	10.8285	45.20
1916	9.9861	17.45	0.0825	10.8312	45.20
1917	9.9882	17.45	0.0826	10.8340	45.20
1918	9.9903	17.45	0.0826	10.8368	45.20
1919	9.9925	17.45	0.0826	10.8395	45.20
1920	9.9946	17.45	0.0826	10.8423	45.20
1921	9.9967	17.45	0.0826	10.8451	45.20
1922	9.9988	17.45	0.0826	10.8478	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1923	10.0010	17.45	0.0826	10.8506	45.20
1924	10.0031	17.45	0.0826	10.8534	45.20
1925	10.0052	17.45	0.0826	10.8561	45.20
1926	10.0074	17.45	0.0826	10.8589	45.20
1927	10.0095	17.45	0.0826	10.8617	45.20
1928	10.0116	17.45	0.0827	10.8644	45.20
1929	10.0138	17.45	0.0827	10.8672	45.20
1930	10.0159	17.45	0.0827	10.8700	45.20
1931	10.0181	17.45	0.0827	10.8727	45.20
1932	10.0202	17.45	0.0827	10.8755	45.20
1933	10.0223	17.45	0.0827	10.8783	45.20
1934	10.0245	17.45	0.0827	10.8811	45.20
1935	10.0266	17.45	0.0827	10.8839	45.20
1936	10.0287	17.45	0.0827	10.8866	45.20
1937	10.0309	17.45	0.0827	10.8894	45.20
1938	10.0330	17.45	0.0827	10.8922	45.20
1939	10.0352	17.45	0.0828	10.8950	45.20
1940	10.0373	17.45	0.0828	10.8977	45.20
1941	10.0394	17.45	0.0828	10.9005	45.20
1942	10.0416	17.45	0.0828	10.9033	45.20
1943	10.0437	17.45	0.0828	10.9061	45.20
1944	10.0459	17.45	0.0828	10.9089	45.20
1945	10.0480	17.45	0.0828	10.9117	45.20
1946	10.0502	17.45	0.0828	10.9144	45.20
1947	10.0523	17.45	0.0828	10.9172	45.20
1948	10.0545	17.45	0.0828	10.9200	45.20
1949	10.0566	17.45	0.0828	10.9228	45.20
1950	10.0587	17.45	0.0829	10.9256	45.20
1951	10.0609	17.45	0.0829	10.9284	45.20
1952	10.0630	17.45	0.0829	10.9312	45.20
1953	10.0652	17.45	0.0829	10.9340	45.20
1954	10.0673	17.45	0.0829	10.9368	45.20
1955	10.0695	17.45	0.0829	10.9395	45.20
1956	10.0716	17.45	0.0829	10.9423	45.20
1957	10.0738	17.45	0.0829	10.9451	45.20
1958	10.0759	17.45	0.0829	10.9479	45.20
1959	10.0781	17.45	0.0829	10.9507	45.20
1960	10.0802	17.45	0.0829	10.9535	45.20
1961	10.0824	17.45	0.0830	10.9563	45.20
1962	10.0846	17.45	0.0830	10.9591	45.20
1963	10.0867	17.45	0.0830	10.9619	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1964	10.0889	17.45	0.0830	10.9647	45.20
1965	10.0910	17.45	0.0830	10.9675	45.20
1966	10.0932	17.45	0.0830	10.9703	45.20
1967	10.0953	17.45	0.0830	10.9731	45.20
1968	10.0975	17.45	0.0830	10.9759	45.20
1969	10.0996	17.45	0.0830	10.9787	45.20
1970	10.1018	17.45	0.0830	10.9815	45.20
1971	10.1040	17.45	0.0830	10.9843	45.20
1972	10.1061	17.45	0.0831	10.9871	45.20
1973	10.1083	17.45	0.0831	10.9899	45.20
1974	10.1104	17.45	0.0831	10.9927	45.20
1975	10.1126	17.45	0.0831	10.9956	45.20
1976	10.1148	17.45	0.0831	10.9984	45.20
1977	10.1169	17.45	0.0831	11.0012	45.20
1978	10.1191	17.45	0.0831	11.0040	45.20
1979	10.1212	17.45	0.0831	11.0068	45.20
1980	10.1234	17.45	0.0831	11.0096	45.20
1981	10.1256	17.45	0.0831	11.0124	45.20
1982	10.1277	17.45	0.0831	11.0152	45.20
1983	10.1299	17.45	0.0832	11.0180	45.20
1984	10.1321	17.45	0.0832	11.0208	45.20
1985	10.1342	17.45	0.0832	11.0237	45.20
1986	10.1364	17.45	0.0832	11.0265	45.20
1987	10.1386	17.45	0.0832	11.0293	45.20
1988	10.1407	17.45	0.0832	11.0321	45.20
1989	10.1429	17.45	0.0832	11.0349	45.20
1990	10.1451	17.45	0.0832	11.0377	45.20
1991	10.1472	17.45	0.0832	11.0406	45.20
1992	10.1494	17.45	0.0832	11.0434	45.20
1993	10.1516	17.45	0.0832	11.0462	45.20
1994	10.1537	17.45	0.0833	11.0490	45.20
1995	10.1559	17.45	0.0833	11.0519	45.20
1996	10.1581	17.45	0.0833	11.0547	45.20
1997	10.1603	17.45	0.0833	11.0575	45.20
1998	10.1624	17.45	0.0833	11.0603	45.20
1999	10.1646	17.45	0.0833	11.0631	45.20
2000	10.1668	17.45	0.0833	11.0660	45.20
2001	10.1689	17.45	0.0833	11.0688	45.20
2002	10.1711	17.45	0.0833	11.0716	45.20
2003	10.1733	17.45	0.0833	11.0745	45.20
2004	10.1755	17.45	0.0833	11.0773	45.20

Attachment 1

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
2005	10.1776	17.45	0.0834	11.0801	45.20
2006	10.1798	17.45	0.0834	11.0829	45.20
2007	10.1820	17.45	0.0834	11.0858	45.20
2008	10.1842	17.45	0.0834	11.0886	45.20
2009	10.1864	17.45	0.0834	11.0914	45.20
2010	10.1885	17.45	0.0834	11.0943	45.20
2011	10.1907	17.45	0.0834	11.0971	45.20
2012	10.1929	17.45	0.0834	11.0999	45.20
2013	10.1951	17.45	0.0834	11.1028	45.20
2014	10.1973	17.45	0.0834	11.1056	45.20
2015	10.1994	17.45	0.0834	11.1085	45.20
2016	10.2016	17.45	0.0835	11.1113	45.20
2017	10.2038	17.45	0.0835	11.1141	45.20
2018	10.2060	17.45	0.0835	11.1170	45.20
2019	10.2082	17.45	0.0835	11.1198	45.20
2020	10.2103	17.45	0.0835	11.1226	45.20
2021	10.2125	17.45	0.0835	11.1255	45.20
2022	10.2147	17.45	0.0835	11.1283	45.20
2023	10.2169	17.45	0.0835	11.1312	45.20

Attachment 1

	AC	AD	AE	AF	AG	AH	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19	x=AV24			$x=(C24-32) * 5/9+273.15$	$x=(D24-32) * 5/9+273.15$	$x=(E24-32) * 5/9+273.15$	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
23	0.0682	22.8000		0.2300	322.038889	322.038889	322.038889
24	0.0682	22.8000		0.2300	322.658733	322.038889	322.038889
25	0.0682	22.8000		0.2300	323.276964	322.039257	322.03948
26	0.0682	22.8000		0.2300	323.893607	322.039992	322.040661
27	0.0682	22.8000		0.2300	324.508682	322.041092	322.042429
28	0.0682	22.8000		0.2300	325.122213	322.042557	322.044783
29	0.0682	22.8000		0.2300	325.734219	322.044385	322.047719
30	0.0682	22.8000		0.2300	326.344721	322.046576	322.051237
31	0.0682	22.8000		0.2300	326.953737	322.049128	322.055334
32	0.0682	22.8000		0.2300	327.561287	322.052039	322.060008
33	0.0682	22.8000		0.2300	328.167388	322.05531	322.065258
34	0.0683	22.8000		0.2300	328.772058	322.058939	322.071081
35	0.0683	22.8000		0.2300	329.375314	322.062924	322.077475
36	0.0683	22.8000		0.2300	329.977172	322.067265	322.084439

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
37	0.0683	22.8000	0.2300	330.577647	322.071961	322.09197
38	0.0683	22.8000	0.2300	331.176755	322.077011	322.100068
39	0.0683	22.8000	0.2300	331.774511	322.082413	322.108729
40	0.0683	22.8000	0.2300	332.370929	322.088168	322.117953
41	0.0683	22.8000	0.2300	332.966022	322.094272	322.127737
42	0.0683	22.8000	0.2300	333.559805	322.100727	322.138079
43	0.0683	22.8000	0.2300	334.152291	322.10753	322.148979
44	0.0683	22.8000	0.2300	334.743491	322.114681	322.160433
45	0.0683	22.8000	0.2300	335.333418	322.122178	322.172441
46	0.0683	22.8000	0.2300	335.922085	322.130022	322.185
47	0.0684	22.8000	0.2300	336.509503	322.13821	322.198109
48	0.0684	22.8000	0.2300	337.095683	322.146742	322.211766
49	0.0684	22.8000	0.2300	337.680636	322.155617	322.225969
50	0.0684	22.8000	0.2300	338.264373	322.164835	322.240717
51	0.0684	22.8000	0.2300	338.846905	322.174393	322.256009
52	0.0684	22.8000	0.2300	339.428241	322.184291	322.271841
53	0.0684	22.8000	0.2300	340.008392	322.194529	322.288214
54	0.0684	22.8000	0.2300	340.587367	322.205105	322.305124
55	0.0684	22.8000	0.2300	341.165175	322.216019	322.322571
56	0.0685	22.8000	0.2300	341.741826	322.22727	322.340553
57	0.0685	22.8000	0.2300	342.317329	322.238856	322.359068
58	0.0685	22.8000	0.2300	342.891693	322.250777	322.378115
59	0.0685	22.8000	0.2300	343.464926	322.263031	322.397692
60	0.0685	22.8000	0.2300	344.037036	322.275619	322.417797
61	0.0685	22.8000	0.2300	344.608032	322.28854	322.43843
62	0.0685	22.8000	0.2300	345.177921	322.301791	322.459588
63	0.0685	22.8000	0.2300	345.746712	322.315374	322.481269
64	0.0686	22.8000	0.2300	346.314412	322.329286	322.503473
65	0.0686	22.8000	0.2300	346.881029	322.343526	322.526198
66	0.0686	22.8000	0.2300	347.44657	322.358095	322.549441
67	0.0686	22.8000	0.2300	348.011043	322.372991	322.573203
68	0.0686	22.8000	0.2300	348.574453	322.388214	322.597481
69	0.0686	22.8000	0.2300	349.136809	322.403762	322.622274
70	0.0686	22.8000	0.2300	349.698117	322.419634	322.64758
71	0.0687	22.8000	0.2300	350.258384	322.435831	322.673397
72	0.0687	22.8000	0.2300	350.817616	322.452351	322.699725
73	0.0687	22.8000	0.2300	351.37582	322.469193	322.726562
74	0.0687	22.8000	0.2300	351.933002	322.486357	322.753906
75	0.0687	22.8000	0.2300	352.489168	322.503841	322.781757
76	0.0687	22.8000	0.2300	353.044324	322.521646	322.810111
77	0.0687	22.8000	0.2300	353.598477	322.539769	322.838969

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
78	0.0688	22.8000		0.2300	354.151632	322.558211	322.868329
79	0.0688	22.8000		0.2300	354.703796	322.576971	322.898189
80	0.0688	22.8000		0.2300	355.254973	322.596047	322.928547
81	0.0688	22.8000		0.2300	355.80517	322.615439	322.959403
82	0.0688	22.8000		0.2300	356.354392	322.635147	322.990755
83	0.0688	22.8000		0.2300	356.902644	322.65517	323.022602
84	0.0689	22.8000		0.2300	357.449932	322.675506	323.054942
85	0.0689	22.8000		0.2300	357.996262	322.696155	323.087774
86	0.0689	22.8000		0.2300	358.541638	322.717116	323.121097
87	0.0689	22.8000		0.2300	359.086065	322.73839	323.154908
88	0.0689	22.8000		0.2300	359.629549	322.759973	323.189208
89	0.0689	22.8000		0.2300	360.172095	322.781867	323.223994
90	0.0690	22.8000		0.2300	360.713708	322.804071	323.259265
91	0.0690	22.8000		0.2300	361.254393	322.826582	323.295019
92	0.0690	22.8000		0.2300	361.794154	322.849402	323.331257
93	0.0690	22.8000		0.2300	362.332996	322.872529	323.367975
94	0.0690	22.8000		0.2300	362.870924	322.895962	323.405173
95	0.0690	22.8000		0.2300	363.407943	322.919702	323.44285
96	0.0691	22.8000		0.2300	363.944058	322.943746	323.481004
97	0.0691	22.8000		0.2300	364.479272	322.968094	323.519634
98	0.0691	22.8000		0.2300	365.013591	322.992746	323.558738
99	0.0691	22.8000		0.2300	365.547018	323.017701	323.598316
100	0.0691	22.8000		0.2300	366.07956	323.042958	323.638365
101	0.0692	22.8000		0.2300	366.611219	323.068516	323.678886
102	0.0692	22.8000		0.2300	367.142	323.094375	323.719876
103	0.0692	22.8000		0.2300	367.671907	323.120535	323.761334
104	0.0692	22.8000		0.2300	368.200946	323.146994	323.803259
105	0.0692	22.8000		0.2300	368.729119	323.173751	323.84565
106	0.0692	22.8000		0.2300	369.256432	323.200806	323.888505
107	0.0693	22.8000		0.2300	369.782888	323.228159	323.931823
108	0.0693	22.8000		0.2300	370.308491	323.255809	323.975603
109	0.0693	22.8000		0.2300	370.833246	323.283754	324.019844
110	0.0693	22.8000		0.2300	371.357157	323.311995	324.064545
111	0.0693	22.8000		0.2300	371.880227	323.340531	324.109703
112	0.0694	22.8000		0.2300	372.402461	323.36936	324.155319
113	0.0694	22.8000		0.2300	372.923863	323.398483	324.201391
114	0.0694	22.8000		0.2300	373.444436	323.427899	324.247917
115	0.0694	22.8000		0.2300	373.964185	323.457606	324.294897
116	0.0694	22.8000		0.2300	374.483113	323.487605	324.342328
117	0.0695	22.8000		0.2300	375.001225	323.517895	324.390211
118	0.0695	22.8000		0.2300	375.518523	323.548474	324.438544

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
119	0.0695	22.8000		0.2300	376.035013	323.579344	324.487325
120	0.0695	22.8000		0.2300	376.550698	323.610501	324.536554
121	0.0695	22.8000		0.2300	377.06558	323.641947	324.586229
122	0.0696	22.8000		0.2300	377.579666	323.673681	324.636349
123	0.0696	22.8000		0.2300	378.092957	323.705701	324.686913
124	0.0696	22.8000		0.2300	378.605458	323.738008	324.73792
125	0.0696	22.8000		0.2300	379.117172	323.7706	324.789369
126	0.0696	22.8000		0.2300	379.628104	323.803477	324.841258
127	0.0697	22.8000		0.2300	380.138256	323.836639	324.893586
128	0.0697	22.8000		0.2300	380.647633	323.870084	324.946353
129	0.0697	22.8000		0.2300	381.156237	323.903812	324.999557
130	0.0697	22.8000		0.2300	381.664073	323.937823	325.053196
131	0.0697	22.8000		0.2300	382.171145	323.972115	325.107271
132	0.0698	22.8000		0.2300	382.677455	324.006689	325.161779
133	0.0698	22.8000		0.2300	383.183008	324.041544	325.216719
134	0.0698	22.8000		0.2300	383.687806	324.076678	325.272091
135	0.0698	22.8000		0.2300	384.191854	324.112092	325.327894
136	0.0698	22.8000		0.2300	384.695155	324.147785	325.384126
137	0.0699	22.8000		0.2300	385.197713	324.183756	325.440785
138	0.0699	22.8000		0.2300	385.69953	324.220005	325.497872
139	0.0699	22.8000		0.2300	386.200611	324.256531	325.555385
140	0.0699	22.8000		0.2300	386.700958	324.293333	325.613323
141	0.0699	22.8000		0.2300	387.200576	324.330411	325.671684
142	0.0700	22.8000		0.2300	387.699468	324.367764	325.730468
143	0.0700	22.8000		0.2300	388.197638	324.405392	325.789674
144	0.0700	22.8000		0.2300	388.695087	324.443294	325.8493
145	0.0700	22.8000		0.2300	389.191821	324.48147	325.909346
146	0.0700	22.8000		0.2300	389.687843	324.519919	325.969811
147	0.0701	22.8000		0.2300	390.183156	324.558639	326.030692
148	0.0701	22.8000		0.2300	390.677763	324.597632	326.09199
149	0.0701	22.8000		0.2300	391.171667	324.636896	326.153703
150	0.0701	22.8000		0.2300	391.664873	324.676431	326.215831
151	0.0702	22.8000		0.2300	392.157384	324.716236	326.278372
152	0.0702	22.8000		0.2300	392.649202	324.75631	326.341325
153	0.0702	22.8000		0.2300	393.140331	324.796653	326.404689
154	0.0702	22.8000		0.2300	393.630775	324.837265	326.468463
155	0.0702	22.8000		0.2300	394.120538	324.878144	326.532646
156	0.0703	22.8000		0.2300	394.609621	324.919291	326.597237
157	0.0703	22.8000		0.2300	395.098029	324.960704	326.662236
158	0.0703	22.8000		0.2300	395.585765	325.002384	326.72764
159	0.0703	22.8000		0.2300	396.072833	325.04433	326.793449

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
160	0.0703	22.8000		0.2300	396.559235	325.08654	326.859663
161	0.0704	22.8000		0.2300	397.044975	325.129015	326.926279
162	0.0704	22.8000		0.2300	397.530056	325.171754	326.993298
163	0.0704	22.8000		0.2300	398.014482	325.214757	327.060718
164	0.0704	22.8000		0.2300	398.498256	325.258022	327.128538
165	0.0705	22.8000		0.2300	398.981381	325.30155	327.196756
166	0.0705	22.8000		0.2300	399.463861	325.34534	327.265373
167	0.0705	22.8000		0.2300	399.945699	325.389392	327.334388
168	0.0705	22.8000		0.2300	400.426898	325.433704	327.403798
169	0.0705	22.8000		0.2300	400.907472	325.478276	327.473603
170	0.0706	22.8000		0.2300	401.387427	325.523108	327.543803
171	0.0706	22.8000		0.2300	401.866766	325.5682	327.614397
172	0.0706	22.8000		0.2300	402.345491	325.61355	327.685382
173	0.0706	22.8000		0.2300	402.823607	325.659159	327.756759
174	0.0707	22.8000		0.2300	403.301116	325.705025	327.828527
175	0.0707	22.8000		0.2300	403.778021	325.751149	327.900684
176	0.0707	22.8000		0.2300	404.254326	325.797529	327.97323
177	0.0707	22.8000		0.2300	404.730033	325.844166	328.046164
178	0.0707	22.8000		0.2300	405.205147	325.891058	328.119484
179	0.0708	22.8000		0.2300	405.679669	325.938206	328.193191
180	0.0708	22.8000		0.2300	406.153604	325.985608	328.267282
181	0.0708	22.8000		0.2300	406.626955	326.033265	328.341758
182	0.0708	22.8000		0.2300	407.099724	326.081176	328.416617
183	0.0709	22.8000		0.2300	407.571915	326.12934	328.491858
184	0.0709	22.8000		0.2300	408.043531	326.177756	328.567481
185	0.0709	22.8000		0.2300	408.514576	326.226426	328.643484
186	0.0709	22.8000		0.2300	408.985052	326.275347	328.719867
187	0.0709	22.8000		0.2300	409.454963	326.324519	328.796628
188	0.0710	22.8000		0.2300	409.924312	326.373943	328.873768
189	0.0710	22.8000		0.2300	410.393102	326.423616	328.951285
190	0.0710	22.8000		0.2300	410.861336	326.47354	329.029178
191	0.0710	22.8000		0.2300	411.329017	326.523714	329.107446
192	0.0711	22.8000		0.2300	411.79615	326.574136	329.186088
193	0.0711	22.8000		0.2300	412.262736	326.624807	329.265105
194	0.0711	22.8000		0.2300	412.728779	326.675727	329.344494
195	0.0711	22.8000		0.2300	413.194283	326.726893	329.424255
196	0.0712	22.8000		0.2300	413.65925	326.778308	329.504387
197	0.0712	22.8000		0.2300	414.123684	326.829969	329.584889
198	0.0712	22.8000		0.2300	414.587588	326.881876	329.66576
199	0.0712	22.8000		0.2300	415.050965	326.934029	329.747001
200	0.0712	22.8000		0.2300	415.513818	326.986428	329.828609

	AC	AD	AE	AF	AG	AH
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21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K
201	0.0713	22.8000		0.2300 415.976151	327.039071	329.910583
202	0.0713	22.8000		0.2300 416.437967	327.091959	329.992924
203	0.0713	22.8000		0.2300 416.899269	327.145091	330.07563
204	0.0713	22.8000		0.2300 417.360059	327.198467	330.158701
205	0.0714	22.8000		0.2300 417.820343	327.252086	330.242135
206	0.0714	22.8000		0.2300 418.280122	327.305948	330.325932
207	0.0714	22.8000		0.2300 418.739399	327.360053	330.410091
208	0.0714	22.8000		0.2300 419.198179	327.414399	330.494612
209	0.0715	22.8000		0.2300 419.656464	327.468986	330.579493
210	0.0715	22.8000		0.2300 420.114258	327.523815	330.664733
211	0.0715	22.8000		0.2300 420.571563	327.578885	330.750332
212	0.0715	22.8000		0.2300 421.028384	327.634194	330.83629
213	0.0715	22.8000		0.2300 421.484722	327.689744	330.922604
214	0.0716	22.8000		0.2300 421.940582	327.745533	331.009276
215	0.0716	22.8000		0.2300 422.395967	327.801561	331.096303
216	0.0716	22.8000		0.2300 422.850879	327.857827	331.183685
217	0.0716	22.8000		0.2300 423.305323	327.914332	331.271421
218	0.0717	22.8000		0.2300 423.759301	327.971074	331.359511
219	0.0717	22.8000		0.2300 424.212816	328.028054	331.447953
220	0.0717	22.8000		0.2300 424.665872	328.08527	331.536748
221	0.0717	22.8000		0.2300 425.118472	328.142724	331.625893
222	0.0718	22.8000		0.2300 425.57062	328.200413	331.715389
223	0.0718	22.8000		0.2300 426.022318	328.258338	331.805235
224	0.0718	22.8000		0.2300 426.473569	328.316499	331.89543
225	0.0718	22.8000		0.2300 426.924378	328.374894	331.985973
226	0.0719	22.8000		0.2300 427.374746	328.433524	332.076864
227	0.0719	22.8000		0.2300 427.824678	328.492388	332.168102
228	0.0719	22.8000		0.2300 428.274177	328.551486	332.259685
229	0.0719	22.8000		0.2300 428.723246	328.610818	332.351614
230	0.0719	22.8000		0.2300 429.171887	328.670382	332.443888
231	0.0720	22.8000		0.2300 429.620105	328.73018	332.536506
232	0.0720	22.8000		0.2300 430.067902	328.790209	332.629466
233	0.0720	22.8000		0.2300 430.515282	328.85047	332.72277
234	0.0720	22.8000		0.2300 430.962249	328.910963	332.816415
235	0.0721	22.8000		0.2300 431.408804	328.971687	332.910402
236	0.0721	22.8000		0.2300 431.854952	329.032642	333.004728
237	0.0721	22.8000		0.2300 432.300695	329.093827	333.099395
238	0.0721	22.8000		0.2300 432.746037	329.155242	333.194401
239	0.0721	22.8000		0.2300 433.190982	329.216887	333.289745
240	0.0722	22.8000		0.2300 433.635531	329.278762	333.385427
241	0.0722	22.8000		0.2300 434.07969	329.340865	333.481446

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
242	0.0722	22.8000		0.2300 434.52346	329.403197	333.577801
243	0.0722	22.8000		0.2300 434.966846	329.465757	333.674493
244	0.0722	22.8000		0.2300 435.409852	329.528545	333.771519
245	0.0722	22.8000		0.2300 435.852479	329.591561	333.868879
246	0.0722	22.8000		0.2300 436.294732	329.654804	333.966574
247	0.0723	22.8000		0.2300 436.736614	329.718274	334.064601
248	0.0723	22.8000		0.2300 437.178128	329.78197	334.162961
249	0.0723	22.8000		0.2300 437.619278	329.845893	334.261653
250	0.0723	22.8000		0.2300 438.060067	329.910041	334.360676
251	0.0723	22.8000		0.2300 438.500498	329.974415	334.46003
252	0.0723	22.8000		0.2300 438.940575	330.039014	334.559713
253	0.0723	22.8000		0.2300 439.3803	330.103838	334.659726
254	0.0724	22.8000		0.2300 439.819678	330.168887	334.760068
255	0.0724	22.8000		0.2300 440.258711	330.234159	334.860737
256	0.0724	22.8000		0.2300 440.697402	330.299656	334.961734
257	0.0724	22.8000		0.2300 441.135755	330.365376	335.063058
258	0.0724	22.8000		0.2300 441.573773	330.43132	335.164708
259	0.0724	22.8000		0.2300 442.01146	330.497486	335.266684
260	0.0724	22.8000		0.2300 442.448818	330.563875	335.368985
261	0.0725	22.8000		0.2300 442.885851	330.630486	335.47161
262	0.0725	22.8000		0.2300 443.322561	330.697319	335.574559
263	0.0725	22.8000		0.2300 443.758953	330.764374	335.677831
264	0.0725	22.8000		0.2300 444.195029	330.83165	335.781426
265	0.0725	22.8000		0.2300 444.630792	330.899147	335.885343
266	0.0725	22.8000		0.2300 445.066246	330.966865	335.989581
267	0.0725	22.8000		0.2300 445.501393	331.034804	336.094141
268	0.0726	22.8000		0.2300 445.936238	331.102962	336.199021
269	0.0726	22.8000		0.2300 446.370782	331.171341	336.30422
270	0.0726	22.8000		0.2300 446.80503	331.239939	336.409739
271	0.0726	22.8000		0.2300 447.238984	331.308756	336.515576
272	0.0726	22.8000		0.2300 447.672647	331.377792	336.621732
273	0.0726	22.8000		0.2300 448.106023	331.447047	336.728205
274	0.0726	22.8000		0.2300 448.539114	331.51652	336.834995
275	0.0727	22.8000		0.2300 448.971924	331.586212	336.942102
276	0.0727	22.8000		0.2300 449.404455	331.656121	337.049524
277	0.0727	22.8000		0.2300 449.836712	331.726248	337.157262
278	0.0727	22.8000		0.2300 450.268696	331.796592	337.265314
279	0.0727	22.8000		0.2300 450.700411	331.867153	337.373681
280	0.0727	22.8000		0.2300 451.13186	331.93793	337.482362
281	0.0727	22.8000		0.2300 451.563046	332.008924	337.591356
282	0.0727	22.8000		0.2300 451.993972	332.080135	337.700663

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
283	0.0728	22.8000	0.2300	452.424641	332.151561	337.810282
284	0.0728	22.8000	0.2300	452.855055	332.223203	337.920212
285	0.0728	22.8000	0.2300	453.285219	332.29506	338.030454
286	0.0728	22.8000	0.2300	453.715134	332.367132	338.141006
287	0.0728	22.8000	0.2300	454.144805	332.439419	338.251869
288	0.0728	22.8000	0.2300	454.574233	332.511921	338.363041
289	0.0728	22.8000	0.2300	455.003422	332.584637	338.474523
290	0.0729	22.8000	0.2300	455.432374	332.657567	338.586313
291	0.0729	22.8000	0.2300	455.861093	332.730711	338.698411
292	0.0729	22.8000	0.2300	456.289582	332.804068	338.810817
293	0.0729	22.8000	0.2300	456.717843	332.877639	338.92353
294	0.0729	22.8000	0.2300	457.145879	332.951423	339.036549
295	0.0729	22.8000	0.2300	457.573693	333.025419	339.149875
296	0.0729	22.8000	0.2300	458.001288	333.099628	339.263507
297	0.0730	22.8000	0.2300	458.428666	333.17405	339.377444
298	0.0730	22.8000	0.2300	458.855832	333.248684	339.491686
299	0.0730	22.8000	0.2300	459.282786	333.323529	339.606232
300	0.0730	22.8000	0.2300	459.709533	333.398586	339.721082
301	0.0730	22.8000	0.2300	460.136075	333.473854	339.836236
302	0.0730	22.8000	0.2300	460.562414	333.549334	339.951692
303	0.0730	22.8000	0.2300	460.988554	333.625024	340.067451
304	0.0731	22.8000	0.2300	461.414497	333.700925	340.183512
305	0.0731	22.8000	0.2300	461.840246	333.777037	340.299874
306	0.0731	22.8000	0.2300	462.265804	333.853359	340.416538
307	0.0731	22.8000	0.2300	462.691173	333.929891	340.533503
308	0.0731	22.8000	0.2300	463.116356	334.006632	340.650767
309	0.0731	22.8000	0.2300	463.541356	334.083583	340.768332
310	0.0731	22.8000	0.2300	463.966174	334.160744	340.886196
311	0.0732	22.8000	0.2300	464.390815	334.238113	341.004358
312	0.0732	22.8000	0.2300	464.815281	334.315692	341.12282
313	0.0732	22.8000	0.2300	465.239573	334.393479	341.241579
314	0.0732	22.8000	0.2300	465.663695	334.471474	341.360637
315	0.0732	22.8000	0.2300	466.08765	334.549678	341.479991
316	0.0732	22.8000	0.2300	466.511439	334.62809	341.599642
317	0.0732	22.8000	0.2300	466.935066	334.70671	341.71959
318	0.0733	22.8000	0.2300	467.358533	334.785537	341.839834
319	0.0733	22.8000	0.2300	467.781842	334.864572	341.960373
320	0.0733	22.8000	0.2300	468.204995	334.943814	342.081208
321	0.0733	22.8000	0.2300	468.627997	335.023263	342.202338
322	0.0733	22.8000	0.2300	469.050847	335.102919	342.323761
323	0.0733	22.8000	0.2300	469.473551	335.182781	342.445479

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
324	0.0733	22.8000		0.2300	469.896108	335.26285	342.567491
325	0.0734	22.8000		0.2300	470.318523	335.343126	342.689796
326	0.0734	22.8000		0.2300	470.740797	335.423607	342.812393
327	0.0734	22.8000		0.2300	471.162933	335.504294	342.935283
328	0.0734	22.8000		0.2300	471.584932	335.585187	343.058465
329	0.0734	22.8000		0.2300	472.006798	335.666285	343.181939
330	0.0734	22.8000		0.2300	472.428533	335.747589	343.305704
331	0.0735	22.8000		0.2300	472.850139	335.829097	343.42976
332	0.0735	22.8000		0.2300	473.271618	335.910811	343.554107
333	0.0735	22.8000		0.2300	473.692972	335.992729	343.678744
334	0.0735	22.8000		0.2300	474.114204	336.074852	343.80367
335	0.0735	22.8000		0.2300	474.535316	336.157179	343.928886
336	0.0735	22.8000		0.2300	474.95631	336.23971	344.054391
337	0.0735	22.8000		0.2300	475.377188	336.322446	344.180185
338	0.0736	22.8000		0.2300	475.797952	336.405385	344.306268
339	0.0736	22.8000		0.2300	476.218605	336.488528	344.432638
340	0.0736	22.8000		0.2300	476.639149	336.571874	344.559296
341	0.0736	22.8000		0.2300	477.059585	336.655424	344.686241
342	0.0736	22.8000		0.2300	477.479916	336.739177	344.813473
343	0.0736	22.8000		0.2300	477.900144	336.823133	344.940992
344	0.0736	22.8000		0.2300	478.32027	336.907291	345.068797
345	0.0737	22.8000		0.2300	478.740297	336.991653	345.196888
346	0.0737	22.8000		0.2300	479.160227	337.076217	345.325265
347	0.0737	22.8000		0.2300	479.580062	337.160983	345.453926
348	0.0737	22.8000		0.2300	479.999803	337.245951	345.582873
349	0.0737	22.8000		0.2300	480.419453	337.331121	345.712105
350	0.0737	22.8000		0.2300	480.839014	337.416493	345.84162
351	0.0737	22.8000		0.2300	481.258487	337.502067	345.97142
352	0.0738	22.8000		0.2300	481.677874	337.587842	346.101503
353	0.0738	22.8000		0.2300	482.097177	337.673819	346.231869
354	0.0738	22.8000		0.2300	482.516398	337.759997	346.362518
355	0.0738	22.8000		0.2300	482.935539	337.846376	346.49345
356	0.0738	22.8000		0.2300	483.354601	337.932956	346.624664
357	0.0738	22.8000		0.2300	483.773587	338.019736	346.75616
358	0.0738	22.8000		0.2300	484.192497	338.106718	346.887938
359	0.0739	22.8000		0.2300	484.611334	338.193899	347.019997
360	0.0739	22.8000		0.2300	485.0301	338.281281	347.152337
361	0.0739	22.8000		0.2300	485.448795	338.368863	347.284958
362	0.0739	22.8000		0.2300	485.867422	338.456645	347.417859
363	0.0739	22.8000		0.2300	486.285983	338.544627	347.551041
364	0.0739	22.8000		0.2300	486.704478	338.632809	347.684502

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
365	0.0739	22.8000		0.2300	487.12291	338.72119	347.818243
366	0.0740	22.8000		0.2300	487.54128	338.809771	347.952263
367	0.0740	22.8000		0.2300	487.95959	338.898551	348.086562
368	0.0740	22.8000		0.2300	488.37784	338.98753	348.221139
369	0.0740	22.8000		0.2300	488.796034	339.076708	348.355995
370	0.0740	22.8000		0.2300	489.214171	339.166085	348.491129
371	0.0740	22.8000		0.2300	489.632254	339.255661	348.62654
372	0.0740	22.8000		0.2300	490.050284	339.345436	348.762229
373	0.0741	22.8000		0.2300	490.468263	339.435408	348.898195
374	0.0741	22.8000		0.2300	490.886191	339.52558	349.034438
375	0.0741	22.8000		0.2300	491.304071	339.615949	349.170958
376	0.0741	22.8000		0.2300	491.721903	339.706517	349.307754
377	0.0741	22.8000		0.2300	492.139689	339.797282	349.444826
378	0.0741	22.8000		0.2300	492.55743	339.888245	349.582173
379	0.0741	22.8000		0.2300	492.975128	339.979406	349.719797
380	0.0742	22.8000		0.2300	493.392783	340.070765	349.857695
381	0.0742	22.8000		0.2300	493.810398	340.162321	349.995868
382	0.0742	22.8000		0.2300	494.227973	340.254074	350.134316
383	0.0742	22.8000		0.2300	494.645509	340.346024	350.273038
384	0.0742	22.8000		0.2300	495.063008	340.438172	350.412034
385	0.0742	22.8000		0.2300	495.480471	340.530516	350.551304
386	0.0742	22.8000		0.2300	495.897899	340.623057	350.690848
387	0.0743	22.8000		0.2300	496.315293	340.715795	350.830665
388	0.0743	22.8000		0.2300	496.732654	340.808729	350.970754
389	0.0743	22.8000		0.2300	497.149984	340.90186	351.111117
390	0.0743	22.8000		0.2300	497.567283	340.995187	351.251752
391	0.0743	22.8000		0.2300	497.984553	341.088711	351.392659
392	0.0743	22.8000		0.2300	498.401794	341.18243	351.533839
393	0.0743	22.8000		0.2300	498.819007	341.276345	351.67529
394	0.0744	22.8000		0.2300	499.236195	341.370457	351.817012
395	0.0744	22.8000		0.2300	499.653356	341.464764	351.959006
396	0.0744	22.8000		0.2300	500.070493	341.559266	352.10127
397	0.0744	22.8000		0.2300	500.487607	341.653964	352.243805
398	0.0744	22.8000		0.2300	500.904697	341.748857	352.386611
399	0.0744	22.8000		0.2300	501.321766	341.843946	352.529686
400	0.0744	22.8000		0.2300	501.738814	341.93923	352.673032
401	0.0744	22.8000		0.2300	502.155842	342.034709	352.816647
402	0.0745	22.8000		0.2300	502.572851	342.130382	352.960532
403	0.0745	22.8000		0.2300	502.989842	342.226251	353.104686
404	0.0745	22.8000		0.2300	503.406814	342.322314	353.249109
405	0.0745	22.8000		0.2300	503.82377	342.418572	353.3938

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
406	0.0745	22.8000	0.2300	504.24071	342.515024	353.53876
407	0.0745	22.8000	0.2300	504.657635	342.611671	353.683988
408	0.0745	22.8000	0.2300	505.074545	342.708512	353.829484
409	0.0746	22.8000	0.2300	505.491442	342.805547	353.975247
410	0.0746	22.8000	0.2300	505.908325	342.902776	354.121278
411	0.0746	22.8000	0.2300	506.325196	343.000199	354.267577
412	0.0746	22.8000	0.2300	506.742055	343.097816	354.414142
413	0.0746	22.8000	0.2300	507.158903	343.195626	354.560974
414	0.0746	22.8000	0.2300	507.575741	343.29363	354.708072
415	0.0746	22.8000	0.2300	507.992568	343.391828	354.855437
416	0.0747	22.8000	0.2300	508.409387	343.490219	355.003067
417	0.0747	22.8000	0.2300	508.826197	343.588803	355.150964
418	0.0747	22.8000	0.2300	509.242998	343.687581	355.299126
419	0.0747	22.8000	0.2300	509.659793	343.786551	355.447553
420	0.0747	22.8000	0.2300	510.07658	343.885715	355.596245
421	0.0747	22.8000	0.2300	510.49336	343.985071	355.745202
422	0.0747	22.8000	0.2300	510.910135	344.084621	355.894424
423	0.0748	22.8000	0.2300	511.326904	344.184362	356.04391
424	0.0748	22.8000	0.2300	511.743668	344.284297	356.19366
425	0.0748	22.8000	0.2300	512.160428	344.384424	356.343674
426	0.0748	22.8000	0.2300	512.577183	344.484743	356.493952
427	0.0748	22.8000	0.2300	512.993935	344.585254	356.644494
428	0.0748	22.8000	0.2300	513.410683	344.685958	356.795298
429	0.0748	22.8000	0.2300	513.827429	344.786854	356.946365
430	0.0749	22.8000	0.2300	514.244172	344.887941	357.097696
431	0.0749	22.8000	0.2300	514.660913	344.989221	357.249288
432	0.0749	22.8000	0.2300	515.077652	345.090692	357.401143
433	0.0749	22.8000	0.2300	515.49439	345.192355	357.553261
434	0.0749	22.8000	0.2300	515.911126	345.29421	357.705639
435	0.0749	22.8000	0.2300	516.327862	345.396255	357.85828
436	0.0749	22.8000	0.2300	516.744598	345.498493	358.011182
437	0.0750	22.8000	0.2300	517.161333	345.600921	358.164345
438	0.0750	22.8000	0.2300	517.578068	345.703541	358.317769
439	0.0750	22.8000	0.2300	517.994804	345.806352	358.471454
440	0.0750	22.8000	0.2300	518.41154	345.909353	358.6254
441	0.0750	22.8000	0.2300	518.828278	346.012546	358.779605
442	0.0750	22.8000	0.2300	519.245016	346.115929	358.934071
443	0.0750	22.8000	0.2300	519.661756	346.219503	359.088796
444	0.0751	22.8000	0.2300	520.078497	346.323268	359.243782
445	0.0751	22.8000	0.2300	520.49524	346.427223	359.399026
446	0.0751	22.8000	0.2300	520.911984	346.531368	359.55453

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
447	0.0751	22.8000		0.2300	521.328731	346.635704	359.710293
448	0.0751	22.8000		0.2300	521.74548	346.74023	359.866314
449	0.0751	22.8000		0.2300	522.162232	346.844946	360.022594
450	0.0751	22.8000		0.2300	522.578985	346.949852	360.179132
451	0.0751	22.8000		0.2300	522.995742	347.054947	360.335929
452	0.0752	22.8000		0.2300	523.412501	347.160233	360.492983
453	0.0752	22.8000		0.2300	523.829264	347.265708	360.650295
454	0.0752	22.8000		0.2300	524.246029	347.371373	360.807864
455	0.0752	22.8000		0.2300	524.662797	347.477228	360.965691
456	0.0752	22.8000		0.2300	525.079568	347.583272	361.123774
457	0.0752	22.8000		0.2300	525.496343	347.689505	361.282115
458	0.0752	22.8000		0.2300	525.91312	347.795927	361.440711
459	0.0753	22.8000		0.2300	526.329901	347.902539	361.599565
460	0.0753	22.8000		0.2300	526.746686	348.009339	361.758674
461	0.0753	22.8000		0.2300	527.163474	348.116329	361.918039
462	0.0753	22.8000		0.2300	527.580265	348.223507	362.07766
463	0.0753	22.8000		0.2300	527.997059	348.330874	362.237536
464	0.0753	22.8000		0.2300	528.413857	348.43843	362.397668
465	0.0753	22.8000		0.2300	528.830659	348.546174	362.558055
466	0.0754	22.8000		0.2300	529.247464	348.654107	362.718696
467	0.0754	22.8000		0.2300	529.664272	348.762228	362.879593
468	0.0754	22.8000		0.2300	530.081083	348.870538	363.040743
469	0.0754	22.8000		0.2300	530.497898	348.979035	363.202148
470	0.0754	22.8000		0.2300	530.914716	349.087721	363.363807
471	0.0754	22.8000		0.2300	531.331538	349.196595	363.525719
472	0.0754	22.8000		0.2300	531.748362	349.305656	363.687885
473	0.0755	22.8000		0.2300	532.16519	349.414906	363.850304
474	0.0755	22.8000		0.2300	532.582021	349.524343	364.012977
475	0.0755	22.8000		0.2300	532.998855	349.633967	364.175902
476	0.0755	22.8000		0.2300	533.415691	349.74378	364.33908
477	0.0755	22.8000		0.2300	533.832531	349.853779	364.502511
478	0.0755	22.8000		0.2300	534.249373	349.963966	364.666194
479	0.0755	22.8000		0.2300	534.666218	350.07434	364.830129
480	0.0755	22.8000		0.2300	535.083065	350.184902	364.994315
481	0.0756	22.8000		0.2300	535.499915	350.29565	365.158754
482	0.0756	22.8000		0.2300	535.916767	350.406585	365.323443
483	0.0756	22.8000		0.2300	536.333621	350.517708	365.488384
484	0.0756	22.8000		0.2300	536.750477	350.629017	365.653576
485	0.0756	22.8000		0.2300	537.167335	350.740512	365.819019
486	0.0756	22.8000		0.2300	537.584195	350.852194	365.984712
487	0.0756	22.8000		0.2300	538.001056	350.964063	366.150655

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
488	0.0757	22.8000	0.2300	538.417919	351.076118	366.316849
489	0.0757	22.8000	0.2300	538.834783	351.18836	366.483293
490	0.0757	22.8000	0.2300	539.251649	351.300787	366.649986
491	0.0757	22.8000	0.2300	539.668515	351.413401	366.816929
492	0.0757	22.8000	0.2300	540.085382	351.5262	366.984121
493	0.0757	22.8000	0.2300	540.50225	351.639186	367.151562
494	0.0757	22.8000	0.2300	540.919119	351.752357	367.319252
495	0.0757	22.8000	0.2300	541.335987	351.865714	367.48719
496	0.0758	22.8000	0.2300	541.752856	351.979257	367.655377
497	0.0758	22.8000	0.2300	542.169725	352.092985	367.823813
498	0.0758	22.8000	0.2300	542.586593	352.206899	367.992496
499	0.0758	22.8000	0.2300	543.003461	352.320998	368.161427
500	0.0758	22.8000	0.2300	543.420328	352.435282	368.330605
501	0.0758	22.8000	0.2300	543.837195	352.549752	368.500031
502	0.0758	22.8000	0.2300	544.254061	352.664406	368.669704
503	0.0759	22.8000	0.2300	544.670925	352.779246	368.839624
504	0.0759	22.8000	0.2300	545.087788	352.89427	369.009791
505	0.0759	22.8000	0.2300	545.504649	353.009479	369.180204
506	0.0759	22.8000	0.2300	545.921508	353.124873	369.350863
507	0.0759	22.8000	0.2300	546.338366	353.240451	369.521769
508	0.0759	22.8000	0.2300	546.755221	353.356214	369.69292
509	0.0759	22.8000	0.2300	547.172073	353.472161	369.864317
510	0.0760	22.8000	0.2300	547.588923	353.588293	370.03596
511	0.0760	22.8000	0.2300	548.005769	353.704608	370.207848
512	0.0760	22.8000	0.2300	548.422613	353.821108	370.37998
513	0.0760	22.8000	0.2300	548.839453	353.937792	370.552358
514	0.0760	22.8000	0.2300	549.25629	354.05466	370.72498
515	0.0760	22.8000	0.2300	549.673123	354.171711	370.897846
516	0.0760	22.8000	0.2300	550.089951	354.288946	371.070957
517	0.0760	22.8000	0.2300	550.506775	354.406365	371.244312
518	0.0761	22.8000	0.2300	550.923595	354.523967	371.41791
519	0.0761	22.8000	0.2300	551.34041	354.641753	371.591752
520	0.0761	22.8000	0.2300	551.75722	354.759722	371.765837
521	0.0761	22.8000	0.2300	552.174025	354.877875	371.940165
522	0.0761	22.8000	0.2300	552.590824	354.99621	372.114736
523	0.0761	22.8000	0.2300	553.007617	355.114728	372.289549
524	0.0761	22.8000	0.2300	553.424405	355.23343	372.464605
525	0.0762	22.8000	0.2300	553.841186	355.352314	372.639904
526	0.0762	22.8000	0.2300	554.25796	355.471381	372.815444
527	0.0762	22.8000	0.2300	554.674728	355.590631	372.991226
528	0.0762	22.8000	0.2300	555.091489	355.710063	373.16725

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
529	0.0762	22.8000		0.2300	555.508243	355.829678	373.343515
530	0.0762	22.8000		0.2300	555.924989	355.949475	373.520021
531	0.0762	22.8000		0.2300	556.341728	356.069454	373.696768
532	0.0762	22.8000		0.2300	556.758459	356.189615	373.873756
533	0.0763	22.8000		0.2300	557.175181	356.309959	374.050984
534	0.0763	22.8000		0.2300	557.591895	356.430484	374.228453
535	0.0763	22.8000		0.2300	558.008601	356.551192	374.406162
536	0.0763	22.8000		0.2300	558.425297	356.672081	374.58411
537	0.0763	22.8000		0.2300	558.841984	356.793151	374.762298
538	0.0763	22.8000		0.2300	559.258662	356.914404	374.940726
539	0.0763	22.8000		0.2300	559.67533	357.035837	375.119393
540	0.0764	22.8000		0.2300	560.091989	357.157453	375.298299
541	0.0764	22.8000		0.2300	560.508637	357.279249	375.477443
542	0.0764	22.8000		0.2300	560.925274	357.401227	375.656826
543	0.0764	22.8000		0.2300	561.341902	357.523385	375.836448
544	0.0764	22.8000		0.2300	561.758518	357.645725	376.016308
545	0.0764	22.8000		0.2300	562.175123	357.768245	376.196405
546	0.0764	22.8000		0.2300	562.591717	357.890947	376.37674
547	0.0764	22.8000		0.2300	563.008299	358.013829	376.557313
548	0.0765	22.8000		0.2300	563.424869	358.136891	376.738123
549	0.0765	22.8000		0.2300	563.841427	358.260134	376.91917
550	0.0765	22.8000		0.2300	564.257973	358.383558	377.100454
551	0.0765	22.8000		0.2300	564.674506	358.507161	377.281974
552	0.0765	22.8000		0.2300	565.091026	358.630945	377.463731
553	0.0765	22.8000		0.2300	565.507534	358.754909	377.645724
554	0.0765	22.8000		0.2300	565.924028	358.879053	377.827953
555	0.0765	22.8000		0.2300	566.340508	359.003377	378.010418
556	0.0766	22.8000		0.2300	566.756975	359.12788	378.193118
557	0.0766	22.8000		0.2300	567.173428	359.252564	378.376054
558	0.0766	22.8000		0.2300	567.589866	359.377426	378.559225
559	0.0766	22.8000		0.2300	568.00629	359.502469	378.74263
560	0.0766	22.8000		0.2300	568.422699	359.627691	378.926271
561	0.0766	22.8000		0.2300	568.839094	359.753091	379.110145
562	0.0766	22.8000		0.2300	569.255473	359.878672	379.294254
563	0.0767	22.8000		0.2300	569.671837	360.004431	379.478597
564	0.0767	22.8000		0.2300	570.088185	360.130369	379.663174
565	0.0767	22.8000		0.2300	570.504517	360.256486	379.847984
566	0.0767	22.8000		0.2300	570.920833	360.382782	380.033028
567	0.0767	22.8000		0.2300	571.337133	360.509257	380.218305
568	0.0767	22.8000		0.2300	571.753417	360.63591	380.403814
569	0.0767	22.8000		0.2300	572.169683	360.762741	380.589557

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
570	0.0767	22.8000		0.2300	572.585933	360.889751	380.775532
571	0.0768	22.8000		0.2300	573.002166	361.016939	380.961739
572	0.0768	22.8000		0.2300	573.418381	361.144306	381.148178
573	0.0768	22.8000		0.2300	573.834578	361.27185	381.334849
574	0.0768	22.8000		0.2300	574.250758	361.399573	381.521752
575	0.0768	22.8000		0.2300	574.666919	361.527473	381.708886
576	0.0768	22.8000		0.2300	575.083063	361.655551	381.896251
577	0.0768	22.8000		0.2300	575.499188	361.783807	382.083848
578	0.0768	22.8000		0.2300	575.915294	361.91224	382.271675
579	0.0769	22.8000		0.2300	576.331381	362.040851	382.459732
580	0.0769	22.8000		0.2300	576.747449	362.169639	382.64802
581	0.0769	22.8000		0.2300	577.163498	362.298604	382.836538
582	0.0769	22.8000		0.2300	577.579528	362.427746	383.025286
583	0.0769	22.8000		0.2300	577.995537	362.557066	383.214263
584	0.0769	22.8000		0.2300	578.411527	362.686562	383.40347
585	0.0769	22.8000		0.2300	578.827497	362.816235	383.592906
586	0.0770	22.8000		0.2300	579.243446	362.946085	383.782571
587	0.0770	22.8000		0.2300	579.659375	363.076112	383.972465
588	0.0770	22.8000		0.2300	580.075283	363.206315	384.162587
589	0.0770	22.8000		0.2300	580.491171	363.336695	384.352938
590	0.0770	22.8000		0.2300	580.907037	363.467251	384.543517
591	0.0770	22.8000		0.2300	581.322882	363.597983	384.734323
592	0.0770	22.8000		0.2300	581.738705	363.728891	384.925358
593	0.0770	22.8000		0.2300	582.154507	363.859975	385.11662
594	0.0771	22.8000		0.2300	582.570287	363.991236	385.308109
595	0.0771	22.8000		0.2300	582.986045	364.122672	385.499825
596	0.0771	22.8000		0.2300	583.401781	364.254283	385.691768
597	0.0771	22.8000		0.2300	583.817495	364.386071	385.883937
598	0.0771	22.8000		0.2300	584.233185	364.518033	386.076333
599	0.0771	22.8000		0.2300	584.648854	364.650172	386.268955
600	0.0771	22.8000		0.2300	585.064499	364.782485	386.461803
601	0.0771	22.8000		0.2300	585.480121	364.914974	386.654877
602	0.0772	22.8000		0.2300	585.89572	365.047637	386.848176
603	0.0772	22.8000		0.2300	586.311295	365.180476	387.041701
604	0.0772	22.8000		0.2300	586.726847	365.31349	387.23545
605	0.0772	22.8000		0.2300	587.142376	365.446678	387.429425
606	0.0772	22.8000		0.2300	587.55788	365.580041	387.623624
607	0.0772	22.8000		0.2300	587.97336	365.713579	387.818047
608	0.0772	22.8000		0.2300	588.388816	365.847291	388.012694
609	0.0772	22.8000		0.2300	588.804247	365.981178	388.207566
610	0.0773	22.8000		0.2300	589.219654	366.115238	388.402661

Attachment 1

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K	
611	0.0773	22.8000		0.2300	589.635036	366.249473	388.59798
612	0.0773	22.8000		0.2300	590.050393	366.383882	388.793522
613	0.0773	22.8000		0.2300	590.465726	366.518465	388.989287
614	0.0773	22.8000		0.2300	590.881033	366.653222	389.185275
615	0.0773	22.8000		0.2300	591.296314	366.788152	389.381486
616	0.0773	22.8000		0.2300	591.71157	366.923256	389.577919
617	0.0774	22.8000		0.2300	592.126801	367.058534	389.774574
618	0.0774	22.8000		0.2300	592.542006	367.193985	389.971452
619	0.0774	22.8000		0.2300	592.957184	367.329609	390.168551
620	0.0774	22.8000		0.2300	593.372337	367.465407	390.365871
621	0.0774	22.8000		0.2300	593.787463	367.601377	390.563413
622	0.0774	22.8000		0.2300	594.202563	367.737521	390.761176
623	0.0774	22.8000		0.2300	594.617637	367.873837	390.95916
624	0.0774	22.8000		0.2300	595.032684	368.010327	391.157365
625	0.0775	22.8000		0.2300	595.447704	368.146989	391.35579
626	0.0775	22.8000		0.2300	595.862697	368.283823	391.554435
627	0.0775	22.8000		0.2300	596.277663	368.420831	391.7533
628	0.0775	22.8000		0.2300	596.692602	368.55801	391.952386
629	0.0775	22.8000		0.2300	597.107514	368.695362	392.15169
630	0.0775	22.8000		0.2300	597.522398	368.832886	392.351214
631	0.0775	22.8000		0.2300	597.937254	368.970582	392.550957
632	0.0775	22.8000		0.2300	598.352083	369.10845	392.75092
633	0.0776	22.8000		0.2300	598.766884	369.246489	392.9511
634	0.0776	22.8000		0.2300	599.181657	369.384701	393.1515
635	0.0776	22.8000		0.2300	599.596402	369.523084	393.352117
636	0.0776	22.8000		0.2300	600.011119	369.661639	393.552953
637	0.0776	22.8000		0.2300	600.425807	369.800365	393.754006
638	0.0776	22.8000		0.2300	600.840467	369.939262	393.955277
639	0.0776	22.8000		0.2300	601.255098	370.078331	394.156766
640	0.0776	22.8000		0.2300	601.669701	370.217571	394.358472
641	0.0777	22.8000		0.2300	602.084275	370.356982	394.560394
642	0.0777	22.8000		0.2300	602.49882	370.496563	394.762533
643	0.0777	22.8000		0.2300	602.913336	370.636316	394.964889
644	0.0777	22.8000		0.2300	603.327823	370.776239	395.167461
645	0.0777	22.8000		0.2300	603.742281	370.916333	395.37025
646	0.0777	22.8000		0.2300	604.156709	371.056597	395.573254
647	0.0777	22.8000		0.2300	604.571108	371.197032	395.776473
648	0.0777	22.8000		0.2300	604.985477	371.337637	395.979909
649	0.0778	22.8000		0.2300	605.399817	371.478412	396.183559
650	0.0778	22.8000		0.2300	605.814127	371.619357	396.387424
651	0.0778	22.8000		0.2300	606.228407	371.760472	396.591505

Attachment 1

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
652	0.0778	22.8000	0.2300	606.642657	371.901757	396.795799
653	0.0778	22.8000	0.2300	607.056877	372.043212	397.000308
654	0.0778	22.8000	0.2300	607.471067	372.184836	397.205031
655	0.0778	22.8000	0.2300	607.885226	372.32663	397.409968
656	0.0778	22.8000	0.2300	608.299356	372.468594	397.615119
657	0.0779	22.8000	0.2300	608.713454	372.610726	397.820483
658	0.0779	22.8000	0.2300	609.127523	372.753028	398.026061
659	0.0779	22.8000	0.2300	609.54156	372.895499	398.231851
660	0.0779	22.8000	0.2300	609.955567	373.038139	398.437855
661	0.0779	22.8000	0.2300	610.369543	373.180948	398.644071
662	0.0779	22.8000	0.2300	610.783489	373.323926	398.850499
663	0.0779	22.8000	0.2300	611.197403	373.467072	399.057139
664	0.0779	22.8000	0.2300	611.611286	373.610388	399.263992
665	0.0780	22.8000	0.2300	612.025138	373.753871	399.471056
666	0.0780	22.8000	0.2300	612.438959	373.897523	399.678331
667	0.0780	22.8000	0.2300	612.852748	374.041343	399.885818
668	0.0780	22.8000	0.2300	613.266506	374.185331	400.093516
669	0.0780	22.8000	0.2300	613.680232	374.329488	400.301431
670	0.0780	22.8000	0.2300	614.093927	374.473812	400.509569
671	0.0780	22.8000	0.2300	614.507591	374.618304	400.71793
672	0.0781	22.8000	0.2300	614.921222	374.762964	400.926514
673	0.0781	22.8000	0.2300	615.334822	374.907792	401.135321
674	0.0781	22.8000	0.2300	615.74839	375.052787	401.344351
675	0.0781	22.8000	0.2300	616.161926	375.197949	401.553603
676	0.0781	22.8000	0.2300	616.57543	375.343279	401.763078
677	0.0781	22.8000	0.2300	616.988901	375.488776	401.972774
678	0.0781	22.8000	0.2300	617.402341	375.634441	402.182693
679	0.0781	22.8000	0.2300	617.815748	375.780272	402.392833
680	0.0782	22.8000	0.2300	618.229124	375.92627	402.603195
681	0.0782	22.8000	0.2300	618.642466	376.072435	402.813778
682	0.0782	22.8000	0.2300	619.055777	376.218766	403.024582
683	0.0782	22.8000	0.2300	619.469054	376.365264	403.235607
684	0.0782	22.8000	0.2300	619.882299	376.511929	403.446853
685	0.0782	22.8000	0.2300	620.295512	376.65876	403.658319
686	0.0782	22.8000	0.2300	620.708692	376.805757	403.870006
687	0.0782	22.8000	0.2300	621.121839	376.952921	404.081912
688	0.0783	22.8000	0.2300	621.534953	377.10025	404.294039
689	0.0783	22.8000	0.2300	621.948034	377.247746	404.506386
690	0.0783	22.8000	0.2300	622.361083	377.395407	404.718952
691	0.0783	22.8000	0.2300	622.774098	377.543234	404.931738
692	0.0783	22.8000	0.2300	623.18708	377.691227	405.144743

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
693	0.0783	22.8000		0.2300	623.600029	377.839385	405.357966
694	0.0783	22.8000		0.2300	624.012945	377.987709	405.571409
695	0.0783	22.8000		0.2300	624.425828	378.136198	405.785071
696	0.0784	22.8000		0.2300	624.838677	378.284852	405.99895
697	0.0784	22.8000		0.2300	625.251493	378.433671	406.213048
698	0.0784	22.8000		0.2300	625.664276	378.582655	406.427365
699	0.0784	22.8000		0.2300	626.077025	378.731805	406.641899
700	0.0784	22.8000		0.2300	626.489741	378.881119	406.85665
701	0.0784	22.8000		0.2300	626.902423	379.030597	407.07162
702	0.0784	22.8000		0.2300	627.315071	379.18024	407.286806
703	0.0784	22.8000		0.2300	627.727686	379.330048	407.50221
704	0.0785	22.8000		0.2300	628.140267	379.48002	407.71783
705	0.0785	22.8000		0.2300	628.552815	379.630157	407.933668
706	0.0785	22.8000		0.2300	628.965328	379.780457	408.149722
707	0.0785	22.8000		0.2300	629.377808	379.930922	408.365992
708	0.0785	22.8000		0.2300	629.790253	380.08155	408.582478
709	0.0785	22.8000		0.2300	630.202665	380.232342	408.799181
710	0.0785	22.8000		0.2300	630.615043	380.383299	409.016099
711	0.0785	22.8000		0.2300	631.027386	380.534418	409.233233
712	0.0786	22.8000		0.2300	631.439696	380.685702	409.450582
713	0.0786	22.8000		0.2300	631.851971	380.837148	409.668147
714	0.0786	22.8000		0.2300	632.264213	380.988758	409.885926
715	0.0786	22.8000		0.2300	632.67642	381.140531	410.10392
716	0.0786	22.8000		0.2300	633.088592	381.292468	410.322129
717	0.0786	22.8000		0.2300	633.500731	381.444567	410.540553
718	0.0786	22.8000		0.2300	633.912835	381.596829	410.759191
719	0.0786	22.8000		0.2300	634.324905	381.749254	410.978043
720	0.0787	22.8000		0.2300	634.73694	381.901842	411.197108
721	0.0787	22.8000		0.2300	635.148941	382.054592	411.416388
722	0.0787	22.8000		0.2300	635.560907	382.207505	411.635881
723	0.0787	22.8000		0.2300	635.972839	382.36058	411.855587
724	0.0787	22.8000		0.2300	636.384736	382.513818	412.075506
725	0.0787	22.8000		0.2300	636.796599	382.667217	412.295639
726	0.0787	22.8000		0.2300	637.208427	382.820779	412.515984
727	0.0787	22.8000		0.2300	637.62022	382.974502	412.736542
728	0.0788	22.8000		0.2300	638.031979	383.128388	412.957312
729	0.0788	22.8000		0.2300	638.443703	383.282435	413.178294
730	0.0788	22.8000		0.2300	638.855392	383.436644	413.399489
731	0.0788	22.8000		0.2300	639.267046	383.591014	413.620895
732	0.0788	22.8000		0.2300	639.678665	383.745546	413.842513
733	0.0788	22.8000		0.2300	640.09025	383.900239	414.064342

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
734	0.0788	22.8000	0.2300	640.5018	384.055093	414.286382
735	0.0788	22.8000	0.2300	640.913317	384.210109	414.508634
736	0.0789	22.8000	0.2300	641.324802	384.365285	414.731096
737	0.0789	22.8000	0.2300	641.736253	384.520623	414.953769
738	0.0789	22.8000	0.2300	642.147672	384.676121	415.176653
739	0.0789	22.8000	0.2300	642.559058	384.83178	415.399747
740	0.0789	22.8000	0.2300	642.97041	384.987599	415.623051
741	0.0789	22.8000	0.2300	643.38173	385.143579	415.846565
742	0.0789	22.8000	0.2300	643.793016	385.299719	416.070289
743	0.0789	22.8000	0.2300	644.20427	385.45602	416.294222
744	0.0790	22.8000	0.2300	644.61549	385.612481	416.518365
745	0.0790	22.8000	0.2300	645.026677	385.769102	416.742717
746	0.0790	22.8000	0.2300	645.437831	385.925882	416.967278
747	0.0790	22.8000	0.2300	645.848951	386.082823	417.192048
748	0.0790	22.8000	0.2300	646.260038	386.239924	417.417026
749	0.0790	22.8000	0.2300	646.671092	386.397184	417.642213
750	0.0790	22.8000	0.2300	647.082112	386.554604	417.867609
751	0.0790	22.8000	0.2300	647.493099	386.712183	418.093212
752	0.0790	22.8000	0.2300	647.904053	386.869921	418.319023
753	0.0791	22.8000	0.2300	648.314972	387.027819	418.545042
754	0.0791	22.8000	0.2300	648.725859	387.185876	418.771269
755	0.0791	22.8000	0.2300	649.136712	387.344092	418.997702
756	0.0791	22.8000	0.2300	649.547531	387.502467	419.224343
757	0.0791	22.8000	0.2300	649.958317	387.661001	419.451191
758	0.0791	22.8000	0.2300	650.36907	387.819693	419.678246
759	0.0791	22.8000	0.2300	650.77979	387.978545	419.905508
760	0.0791	22.8000	0.2300	651.190476	388.137554	420.132975
761	0.0791	22.8000	0.2300	651.601129	388.296722	420.360649
762	0.0792	22.8000	0.2300	652.011749	388.456049	420.58853
763	0.0792	22.8000	0.2300	652.422336	388.615534	420.816616
764	0.0792	22.8000	0.2300	652.832889	388.775176	421.044907
765	0.0792	22.8000	0.2300	653.243409	388.934977	421.273404
766	0.0792	22.8000	0.2300	653.653896	389.094936	421.502107
767	0.0792	22.8000	0.2300	654.06435	389.255053	421.731014
768	0.0792	22.8000	0.2300	654.47477	389.415327	421.960127
769	0.0792	22.8000	0.2300	654.885157	389.575759	422.189444
770	0.0792	22.8000	0.2300	655.295511	389.736348	422.418966
771	0.0792	22.8000	0.2300	655.705831	389.897095	422.648693
772	0.0793	22.8000	0.2300	656.116118	390.057999	422.878623
773	0.0793	22.8000	0.2300	656.526372	390.21906	423.108758
774	0.0793	22.8000	0.2300	656.936593	390.380279	423.339096

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
775	0.0793	22.8000		0.2300	657.34678	390.541654	423.569638
776	0.0793	22.8000		0.2300	657.756934	390.703186	423.800384
777	0.0793	22.8000		0.2300	658.167055	390.864876	424.031333
778	0.0793	22.8000		0.2300	658.577142	391.026721	424.262485
779	0.0793	22.8000		0.2300	658.987196	391.188724	424.49384
780	0.0793	22.8000		0.2300	659.397216	391.350883	424.725397
781	0.0793	22.8000		0.2300	659.807204	391.513198	424.957158
782	0.0794	22.8000		0.2300	660.217157	391.675669	425.18912
783	0.0794	22.8000		0.2300	660.627078	391.838297	425.421285
784	0.0794	22.8000		0.2300	661.036965	392.001081	425.653652
785	0.0794	22.8000		0.2300	661.446818	392.164021	425.88622
786	0.0794	22.8000		0.2300	661.856638	392.327116	426.118991
787	0.0794	22.8000		0.2300	662.266425	392.490368	426.351963
788	0.0794	22.8000		0.2300	662.676178	392.653775	426.585136
789	0.0794	22.8000		0.2300	663.085898	392.817337	426.81851
790	0.0794	22.8000		0.2300	663.495584	392.981055	427.052085
791	0.0794	22.8000		0.2300	663.905237	393.144929	427.285861
792	0.0795	22.8000		0.2300	664.314857	393.308958	427.519837
793	0.0795	22.8000		0.2300	664.724443	393.473142	427.754014
794	0.0795	22.8000		0.2300	665.133995	393.637481	427.988391
795	0.0795	22.8000		0.2300	665.543514	393.801974	428.222968
796	0.0795	22.8000		0.2300	665.953	393.966623	428.457745
797	0.0795	22.8000		0.2300	666.362452	394.131427	428.692721
798	0.0795	22.8000		0.2300	666.77187	394.296385	428.927897
799	0.0795	22.8000		0.2300	667.181255	394.461498	429.163272
800	0.0795	22.8000		0.2300	667.590607	394.626765	429.398846
801	0.0795	22.8000		0.2300	667.999925	394.792186	429.63462
802	0.0795	22.8000		0.2300	668.409209	394.957762	429.870592
803	0.0796	22.8000		0.2300	668.81846	395.123492	430.106762
804	0.0796	22.8000		0.2300	669.227677	395.289376	430.343131
805	0.0796	22.8000		0.2300	669.636861	395.455414	430.579698
806	0.0796	22.8000		0.2300	670.046011	395.621606	430.816463
807	0.0796	22.8000		0.2300	670.455128	395.787951	431.053426
808	0.0796	22.8000		0.2300	670.864211	395.954451	431.290587
809	0.0796	22.8000		0.2300	671.27326	396.121103	431.527945
810	0.0796	22.8000		0.2300	671.682276	396.287909	431.7655
811	0.0796	22.8000		0.2300	672.091258	396.454869	432.003253
812	0.0796	22.8000		0.2300	672.500207	396.621982	432.241202
813	0.0797	22.8000		0.2300	672.909122	396.789248	432.479348
814	0.0797	22.8000		0.2300	673.318004	396.956666	432.717691
815	0.0797	22.8000		0.2300	673.726851	397.124238	432.95623

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
816	0.0797	22.8000		0.2300	674.135666	397.291963	433.194965
817	0.0797	22.8000		0.2300	674.544446	397.45984	433.433896
818	0.0797	22.8000		0.2300	674.953193	397.62787	433.673024
819	0.0797	22.8000		0.2300	675.361907	397.796053	433.912346
820	0.0797	22.8000		0.2300	675.770587	397.964388	434.151865
821	0.0797	22.8000		0.2300	676.179233	398.132875	434.391578
822	0.0797	22.8000		0.2300	676.587845	398.301515	434.631487
823	0.0798	22.8000		0.2300	676.996424	398.470306	434.871591
824	0.0798	22.8000		0.2300	677.404969	398.63925	435.111889
825	0.0798	22.8000		0.2300	677.813481	398.808346	435.352382
826	0.0798	22.8000		0.2300	678.221959	398.977593	435.59307
827	0.0798	22.8000		0.2300	678.630403	399.146992	435.833951
828	0.0798	22.8000		0.2300	679.038814	399.316543	436.075027
829	0.0798	22.8000		0.2300	679.447191	399.486246	436.316297
830	0.0798	22.8000		0.2300	679.855534	399.656099	436.55776
831	0.0798	22.8000		0.2300	680.263844	399.826104	436.799417
832	0.0798	22.8000		0.2300	680.67212	399.996261	437.041267
833	0.0799	22.8000		0.2300	681.080362	400.166568	437.28331
834	0.0799	22.8000		0.2300	681.48857	400.337035	437.525546
835	0.0799	22.8000		0.2300	681.896745	400.507661	437.767975
836	0.0799	22.8000		0.2300	682.304887	400.678447	438.010597
837	0.0799	22.8000		0.2300	682.712994	400.849392	438.253411
838	0.0799	22.8000		0.2300	683.121068	401.020497	438.496417
839	0.0799	22.8000		0.2300	683.529109	401.19176	438.739616
840	0.0799	22.8000		0.2300	683.937115	401.363183	438.983006
841	0.0799	22.8000		0.2300	684.345088	401.534765	439.226588
842	0.0799	22.8000		0.2300	684.753027	401.706505	439.470361
843	0.0800	22.8000		0.2300	685.160933	401.878405	439.714326
844	0.0800	22.8000		0.2300	685.568805	402.050463	439.958482
845	0.0800	22.8000		0.2300	685.976643	402.22268	440.202829
846	0.0800	22.8000		0.2300	686.384447	402.395055	440.447367
847	0.0800	22.8000		0.2300	686.792218	402.567589	440.692096
848	0.0800	22.8000		0.2300	687.199955	402.740282	440.937015
849	0.0800	22.8000		0.2300	687.607659	402.913133	441.182124
850	0.0800	22.8000		0.2300	688.015329	403.086142	441.427424
851	0.0800	22.8000		0.2300	688.422965	403.259309	441.672913
852	0.0800	22.8000		0.2300	688.830567	403.432634	441.918592
853	0.0801	22.8000		0.2300	689.238136	403.606118	442.164461
854	0.0801	22.8000		0.2300	689.645671	403.779759	442.410519
855	0.0801	22.8000		0.2300	690.053173	403.953558	442.656766
856	0.0801	22.8000		0.2300	690.46064	404.127515	442.903203

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
857	0.0801	22.8000		0.2300	690.868074	404.30163	443.149828
858	0.0801	22.8000		0.2300	691.275475	404.475902	443.396642
859	0.0801	22.8000		0.2300	691.682841	404.650332	443.643645
860	0.0801	22.8000		0.2300	692.090174	404.824919	443.890835
861	0.0801	22.8000		0.2300	692.497474	404.999664	444.138214
862	0.0801	22.8000		0.2300	692.90474	405.174565	444.385781
863	0.0802	22.8000		0.2300	693.311972	405.349624	444.633536
864	0.0802	22.8000		0.2300	693.71917	405.524841	444.881479
865	0.0802	22.8000		0.2300	694.126335	405.700214	445.129608
866	0.0802	22.8000		0.2300	694.533466	405.875744	445.377926
867	0.0802	22.8000		0.2300	694.940563	406.051431	445.62643
868	0.0802	22.8000		0.2300	695.347627	406.227275	445.875121
869	0.0802	22.8000		0.2300	695.754657	406.403275	446.123999
870	0.0802	22.8000		0.2300	696.161654	406.579432	446.373063
871	0.0802	22.8000		0.2300	696.568616	406.755746	446.622314
872	0.0802	22.8000		0.2300	696.975546	406.932216	446.871751
873	0.0802	22.8000		0.2300	697.382441	407.108842	447.121375
874	0.0803	22.8000		0.2300	697.789303	407.285625	447.371184
875	0.0803	22.8000		0.2300	698.196131	407.462564	447.621178
876	0.0803	22.8000		0.2300	698.602926	407.639659	447.871359
877	0.0803	22.8000		0.2300	699.009687	407.81691	448.121724
878	0.0803	22.8000		0.2300	699.416414	407.994317	448.372275
879	0.0803	22.8000		0.2300	699.823108	408.17188	448.623011
880	0.0803	22.8000		0.2300	700.229768	408.349599	448.873931
881	0.0803	22.8000		0.2300	700.636395	408.527474	449.125036
882	0.0803	22.8000		0.2300	701.042988	408.705504	449.376326
883	0.0803	22.8000		0.2300	701.449547	408.883689	449.6278
884	0.0804	22.8000		0.2300	701.856073	409.06203	449.879458
885	0.0804	22.8000		0.2300	702.262565	409.240527	450.1313
886	0.0804	22.8000		0.2300	702.669023	409.419179	450.383326
887	0.0804	22.8000		0.2300	703.075448	409.597986	450.635535
888	0.0804	22.8000		0.2300	703.48184	409.776948	450.887928
889	0.0804	22.8000		0.2300	703.888198	409.956065	451.140504
890	0.0804	22.8000		0.2300	704.294522	410.135337	451.393263
891	0.0804	22.8000		0.2300	704.700813	410.314764	451.646205
892	0.0804	22.8000		0.2300	705.10707	410.494346	451.89933
893	0.0804	22.8000		0.2300	705.513293	410.674083	452.152637
894	0.0805	22.8000		0.2300	705.919483	410.853974	452.406126
895	0.0805	22.8000		0.2300	706.32564	411.03402	452.659798
896	0.0805	22.8000		0.2300	706.731763	411.21422	452.913652
897	0.0805	22.8000		0.2300	707.137852	411.394575	453.167688

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
898	0.0805	22.8000	0.2300	707.543908	411.575084	453.421905
899	0.0805	22.8000	0.2300	707.94993	411.755747	453.676304
900	0.0805	22.8000	0.2300	708.355919	411.936565	453.930884
901	0.0805	22.8000	0.2300	708.761874	412.117536	454.185645
902	0.0805	22.8000	0.2300	709.167796	412.298662	454.440587
903	0.0805	22.8000	0.2300	709.573684	412.479941	454.69571
904	0.0806	22.8000	0.2300	709.979539	412.661374	454.951014
905	0.0806	22.8000	0.2300	710.38536	412.842961	455.206498
906	0.0806	22.8000	0.2300	710.791148	413.024702	455.462163
907	0.0806	22.8000	0.2300	711.196902	413.206596	455.718007
908	0.0806	22.8000	0.2300	711.602623	413.388644	455.974031
909	0.0806	22.8000	0.2300	712.008311	413.570845	456.230236
910	0.0806	22.8000	0.2300	712.413965	413.7532	456.486619
911	0.0806	22.8000	0.2300	712.819585	413.935707	456.743183
912	0.0806	22.8000	0.2300	713.225172	414.118368	456.999925
913	0.0806	22.8000	0.2300	713.630726	414.301182	457.256846
914	0.0806	22.8000	0.2300	714.036246	414.484149	457.513947
915	0.0807	22.8000	0.2300	714.441733	414.667269	457.771226
916	0.0807	22.8000	0.2300	714.847186	414.850542	458.028684
917	0.0807	22.8000	0.2300	715.252606	415.033968	458.28632
918	0.0807	22.8000	0.2300	715.657992	415.217546	458.544134
919	0.0807	22.8000	0.2300	716.063345	415.401277	458.802126
920	0.0807	22.8000	0.2300	716.468665	415.58516	459.060296
921	0.0807	22.8000	0.2300	716.873951	415.769196	459.318644
922	0.0807	22.8000	0.2300	717.279204	415.953385	459.577169
923	0.0807	22.8000	0.2300	717.684424	416.137725	459.835872
924	0.0807	22.8000	0.2300	718.08961	416.322218	460.094752
925	0.0808	22.8000	0.2300	718.494763	416.506863	460.353809
926	0.0808	22.8000	0.2300	718.899882	416.691659	460.613043
927	0.0808	22.8000	0.2300	719.304969	416.876608	460.872453
928	0.0808	22.8000	0.2300	719.710021	417.061709	461.13204
929	0.0808	22.8000	0.2300	720.115041	417.246961	461.391803
930	0.0808	22.8000	0.2300	720.520027	417.432366	461.651742
931	0.0808	22.8000	0.2300	720.92498	417.617921	461.911857
932	0.0808	22.8000	0.2300	721.329899	417.803629	462.172148
933	0.0808	22.8000	0.2300	721.734786	417.989488	462.432615
934	0.0808	22.8000	0.2300	722.139639	418.175498	462.693257
935	0.0809	22.8000	0.2300	722.544458	418.361659	462.954075
936	0.0809	22.8000	0.2300	722.949245	418.547972	463.215067
937	0.0809	22.8000	0.2300	723.353998	418.734436	463.476235
938	0.0809	22.8000	0.2300	723.758718	418.921051	463.737577

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
939	0.0809	22.8000		0.2300	724.163405	419.107817	463.999094
940	0.0809	22.8000		0.2300	724.568058	419.294734	464.260785
941	0.0809	22.8000		0.2300	724.972678	419.481802	464.52265
942	0.0809	22.8000		0.2300	725.377265	419.66902	464.78469
943	0.0809	22.8000		0.2300	725.781819	419.856389	465.046904
944	0.0809	22.8000		0.2300	726.18634	420.043909	465.309291
945	0.0809	22.8000		0.2300	726.590827	420.231579	465.571852
946	0.0810	22.8000		0.2300	726.995281	420.4194	465.834586
947	0.0810	22.8000		0.2300	727.399703	420.60737	466.097494
948	0.0810	22.8000		0.2300	727.80409	420.795492	466.360574
949	0.0810	22.8000		0.2300	728.208445	420.983763	466.623828
950	0.0810	22.8000		0.2300	728.612767	421.172184	466.887254
951	0.0810	22.8000		0.2300	729.017055	421.360756	467.150853
952	0.0810	22.8000		0.2300	729.42131	421.549477	467.414624
953	0.0810	22.8000		0.2300	729.825533	421.738348	467.678567
954	0.0810	22.8000		0.2300	730.229722	421.927369	467.942683
955	0.0810	22.8000		0.2300	730.633878	422.11654	468.20697
956	0.0811	22.8000		0.2300	731.038	422.30586	468.471429
957	0.0811	22.8000		0.2300	731.44209	422.49533	468.73606
958	0.0811	22.8000		0.2300	731.846147	422.68495	469.000862
959	0.0811	22.8000		0.2300	732.250171	422.874718	469.265835
960	0.0811	22.8000		0.2300	732.654161	423.064636	469.530979
961	0.0811	22.8000		0.2300	733.058119	423.254703	469.796294
962	0.0811	22.8000		0.2300	733.462043	423.44492	470.06178
963	0.0811	22.8000		0.2300	733.865935	423.635285	470.327436
964	0.0811	22.8000		0.2300	734.269793	423.825799	470.593263
965	0.0811	22.8000		0.2300	734.673618	424.016462	470.859259
966	0.0812	22.8000		0.2300	735.077411	424.207274	471.125426
967	0.0812	22.8000		0.2300	735.48117	424.398235	471.391763
968	0.0812	22.8000		0.2300	735.884897	424.589344	471.658269
969	0.0812	22.8000		0.2300	736.28859	424.780602	471.924945
970	0.0812	22.8000		0.2300	736.692251	424.972008	472.191791
971	0.0812	22.8000		0.2300	737.095878	425.163563	472.458805
972	0.0812	22.8000		0.2300	737.499473	425.355266	472.725989
973	0.0812	22.8000		0.2300	737.903035	425.547118	472.993341
974	0.0812	22.8000		0.2300	738.306563	425.739117	473.260862
975	0.0812	22.8000		0.2300	738.710059	425.931265	473.528552
976	0.0812	22.8000		0.2300	739.113522	426.12356	473.796409
977	0.0813	22.8000		0.2300	739.516952	426.316004	474.064435
978	0.0813	22.8000		0.2300	739.920349	426.508595	474.332629
979	0.0813	22.8000		0.2300	740.323714	426.701334	474.600991

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
980	0.0813	22.8000		0.2300	740.727045	426.894221	474.869521
981	0.0813	22.8000		0.2300	741.130344	427.087255	475.138218
982	0.0813	22.8000		0.2300	741.533609	427.280437	475.407082
983	0.0813	22.8000		0.2300	741.936842	427.473766	475.676114
984	0.0813	22.8000		0.2300	742.340042	427.667243	475.945313
985	0.0813	22.8000		0.2300	742.74321	427.860867	476.214678
986	0.0813	22.8000		0.2300	743.146344	428.054638	476.48421
987	0.0814	22.8000		0.2300	743.549446	428.248556	476.753909
988	0.0814	22.8000		0.2300	743.952515	428.442622	477.023774
989	0.0814	22.8000		0.2300	744.355551	428.636834	477.293805
990	0.0814	22.8000		0.2300	744.758554	428.831193	477.564002
991	0.0814	22.8000		0.2300	745.161525	429.025699	477.834365
992	0.0814	22.8000		0.2300	745.564463	429.220352	478.104894
993	0.0814	22.8000		0.2300	745.967368	429.415151	478.375588
994	0.0814	22.8000		0.2300	746.370241	429.610097	478.646447
995	0.0814	22.8000		0.2300	746.77308	429.805189	478.917472
996	0.0814	22.8000		0.2300	747.175887	430.000428	479.188662
997	0.0815	22.8000		0.2300	747.578662	430.195813	479.460016
998	0.0815	22.8000		0.2300	747.981403	430.391344	479.731536
999	0.0815	22.8000		0.2300	748.384113	430.587022	480.003219
1000	0.0815	22.8000		0.2300	748.786789	430.782845	480.275067
1001	0.0815	22.8000		0.2300	749.189433	430.978815	480.54708
1002	0.0815	22.8000		0.2300	749.592044	431.17493	480.819256
1003	0.0815	22.8000		0.2300	749.994622	431.371191	481.091596
1004	0.0815	22.8000		0.2300	750.397168	431.567598	481.3641
1005	0.0815	22.8000		0.2300	750.799682	431.764151	481.636767
1006	0.0815	22.8000		0.2300	751.202162	431.960849	481.909598
1007	0.0815	22.8000		0.2300	751.60461	432.157693	482.182592
1008	0.0816	22.8000		0.2300	752.007026	432.354682	482.455749
1009	0.0816	22.8000		0.2300	752.409409	432.551817	482.729069
1010	0.0816	22.8000		0.2300	752.81176	432.749097	483.002551
1011	0.0816	22.8000		0.2300	753.214077	432.946522	483.276196
1012	0.0816	22.8000		0.2300	753.616363	433.144092	483.550004
1013	0.0816	22.8000		0.2300	754.018616	433.341807	483.823973
1014	0.0816	22.8000		0.2300	754.420836	433.539668	484.098105
1015	0.0816	22.8000		0.2300	754.823024	433.737673	484.372398
1016	0.0816	22.8000		0.2300	755.22518	433.935823	484.646854
1017	0.0816	22.8000		0.2300	755.627303	434.134117	484.92147
1018	0.0817	22.8000		0.2300	756.029393	434.332557	485.196249
1019	0.0817	22.8000		0.2300	756.431451	434.53114	485.471188
1020	0.0817	22.8000		0.2300	756.833477	434.729869	485.746288

	AC	AD	AE	AF	AG	AH
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21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1021	0.0817	22.8000	0.2300	757.23547	434.928741	486.02155
1022	0.0817	22.8000	0.2300	757.637431	435.127759	486.296972
1023	0.0817	22.8000	0.2300	758.03936	435.32692	486.572554
1024	0.0817	22.8000	0.2300	758.441256	435.526225	486.848298
1025	0.0817	22.8000	0.2300	758.84312	435.725675	487.124201
1026	0.0817	22.8000	0.2300	759.244951	435.925268	487.400264
1027	0.0817	22.8000	0.2300	759.64675	436.125006	487.676487
1028	0.0817	22.8000	0.2300	760.048517	436.324887	487.95287
1029	0.0818	22.8000	0.2300	760.450251	436.524912	488.229413
1030	0.0818	22.8000	0.2300	760.851953	436.725081	488.506115
1031	0.0818	22.8000	0.2300	761.253623	436.925394	488.782976
1032	0.0818	22.8000	0.2300	761.65526	437.12585	489.059997
1033	0.0818	22.8000	0.2300	762.056865	437.326449	489.337176
1034	0.0818	22.8000	0.2300	762.458438	437.527192	489.614514
1035	0.0818	22.8000	0.2300	762.859979	437.728078	489.892011
1036	0.0818	22.8000	0.2300	763.261487	437.929107	490.169666
1037	0.0818	22.8000	0.2300	763.662964	438.13028	490.44748
1038	0.0818	22.8000	0.2300	764.064408	438.331595	490.725451
1039	0.0819	22.8000	0.2300	764.465819	438.533053	491.003581
1040	0.0819	22.8000	0.2300	764.867199	438.734655	491.281868
1041	0.0819	22.8000	0.2300	765.268546	438.936399	491.560313
1042	0.0819	22.8000	0.2300	765.669861	439.138286	491.838915
1043	0.0819	22.8000	0.2300	766.071144	439.340316	492.117675
1044	0.0819	22.8000	0.2300	766.472395	439.542488	492.396592
1045	0.0819	22.8000	0.2300	766.873614	439.744802	492.675666
1046	0.0819	22.8000	0.2300	767.274801	439.947259	492.954897
1047	0.0819	22.8000	0.2300	767.675955	440.149859	493.234284
1048	0.0819	22.8000	0.2300	768.077078	440.352601	493.513828
1049	0.0819	22.8000	0.2300	768.478168	440.555484	493.793528
1050	0.0820	22.8000	0.2300	768.879226	440.75851	494.073385
1051	0.0820	22.8000	0.2300	769.280252	440.961679	494.353397
1052	0.0820	22.8000	0.2300	769.681246	441.164989	494.633566
1053	0.0820	22.8000	0.2300	770.082209	441.36844	494.91389
1054	0.0820	22.8000	0.2300	770.483139	441.572034	495.194369
1055	0.0820	22.8000	0.2300	770.884037	441.775769	495.475004
1056	0.0820	22.8000	0.2300	771.284903	441.979646	495.755794
1057	0.0820	22.8000	0.2300	771.685737	442.183665	496.03674
1058	0.0820	22.8000	0.2300	772.086539	442.387825	496.31784
1059	0.0820	22.8000	0.2300	772.487309	442.592126	496.599095
1060	0.0821	22.8000	0.2300	772.888047	442.796569	496.880504
1061	0.0821	22.8000	0.2300	773.288753	443.001153	497.162068

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1062	0.0821	22.8000		0.2300	773.689427	443.205878	497.443786
1063	0.0821	22.8000		0.2300	774.09007	443.410745	497.725659
1064	0.0821	22.8000		0.2300	774.49068	443.615752	498.007685
1065	0.0821	22.8000		0.2300	774.891259	443.8209	498.289865
1066	0.0821	22.8000		0.2300	775.291805	444.026189	498.572198
1067	0.0821	22.8000		0.2300	775.69232	444.231619	498.854685
1068	0.0821	22.8000		0.2300	776.092803	444.437189	499.137326
1069	0.0821	22.8000		0.2300	776.493254	444.6429	499.420119
1070	0.0821	22.8000		0.2300	776.893673	444.848752	499.703066
1071	0.0822	22.8000		0.2300	777.294061	445.054744	499.986165
1072	0.0822	22.8000		0.2300	777.694416	445.260877	500.269417
1073	0.0822	22.8000		0.2300	778.09474	445.467149	500.552822
1074	0.0822	22.8000		0.2300	778.495032	445.673562	500.836378
1075	0.0822	22.8000		0.2300	778.895292	445.880115	501.120087
1076	0.0822	22.8000		0.2300	779.295521	446.086809	501.403949
1077	0.0822	22.8000		0.2300	779.695717	446.293642	501.687961
1078	0.0822	22.8000		0.2300	780.095882	446.500615	501.972126
1079	0.0822	22.8000		0.2300	780.496016	446.707728	502.256442
1080	0.0822	22.8000		0.2300	780.896117	446.914981	502.54091
1081	0.0823	22.8000		0.2300	781.296187	447.122373	502.825529
1082	0.0823	22.8000		0.2300	781.696225	447.329905	503.110299
1083	0.0823	22.8000		0.2300	782.096232	447.537576	503.395219
1084	0.0823	22.8000		0.2300	782.496206	447.745387	503.680291
1085	0.0823	22.8000		0.2300	782.89615	447.953337	503.965513
1086	0.0823	22.8000		0.2300	783.296061	448.161427	504.250886
1087	0.0823	22.8000		0.2300	783.695941	448.369656	504.536409
1088	0.0823	22.8000		0.2300	784.095789	448.578023	504.822082
1089	0.0823	22.8000		0.2300	784.495606	448.78653	505.107905
1090	0.0823	22.8000		0.2300	784.895391	448.995176	505.393878
1091	0.0823	22.8000		0.2300	785.295144	449.203961	505.68
1092	0.0824	22.8000		0.2300	785.694866	449.412884	505.966272
1093	0.0824	22.8000		0.2300	786.094557	449.621947	506.252694
1094	0.0824	22.8000		0.2300	786.494216	449.831148	506.539264
1095	0.0824	22.8000		0.2300	786.893843	450.040487	506.825984
1096	0.0824	22.8000		0.2300	787.293439	450.249965	507.112852
1097	0.0824	22.8000		0.2300	787.693003	450.459581	507.39987
1098	0.0824	22.8000		0.2300	788.092536	450.669336	507.687035
1099	0.0824	22.8000		0.2300	788.492037	450.879229	507.97435
1100	0.0824	22.8000		0.2300	788.891507	451.08926	508.261812
1101	0.0824	22.8000		0.2300	789.290946	451.29943	508.549422
1102	0.0825	22.8000		0.2300	789.690353	451.509737	508.837181

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1103	0.0825	22.8000		0.2300	790.089728	451.720182	509.125087
1104	0.0825	22.8000		0.2300	790.489072	451.930766	509.413141
1105	0.0825	22.8000		0.2300	790.888385	452.141487	509.701342
1106	0.0825	22.8000		0.2300	791.287667	452.352345	509.989691
1107	0.0825	22.8000		0.2300	791.686917	452.563342	510.278187
1108	0.0825	22.8000		0.2300	792.086135	452.774475	510.566829
1109	0.0825	22.8000		0.2300	792.485322	452.985747	510.855619
1110	0.0825	22.8000		0.2300	792.884478	453.197156	511.144555
1111	0.0825	22.8000		0.2300	793.283603	453.408702	511.433638
1112	0.0825	22.8000		0.2300	793.682696	453.620385	511.722868
1113	0.0826	22.8000		0.2300	794.081758	453.832206	512.012243
1114	0.0826	22.8000		0.2300	794.480789	454.044163	512.301764
1115	0.0826	22.8000		0.2300	794.879788	454.256258	512.591432
1116	0.0826	22.8000		0.2300	795.278757	454.468489	512.881245
1117	0.0826	22.8000		0.2300	795.677694	454.680858	513.171204
1118	0.0826	22.8000		0.2300	796.076599	454.893363	513.461308
1119	0.0826	22.8000		0.2300	796.475474	455.106005	513.751558
1120	0.0826	22.8000		0.2300	796.874317	455.318783	514.041952
1121	0.0826	22.8000		0.2300	797.273129	455.531699	514.332492
1122	0.0826	22.8000		0.2300	797.67191	455.74475	514.623177
1123	0.0827	22.8000		0.2300	798.070659	455.957938	514.914006
1124	0.0827	22.8000		0.2300	798.469378	456.171262	515.204979
1125	0.0827	22.8000		0.2300	798.868065	456.384723	515.496097
1126	0.0827	22.8000		0.2300	799.266722	456.59832	515.78736
1127	0.0827	22.8000		0.2300	799.665347	456.812052	516.078766
1128	0.0827	22.8000		0.2300	800.063941	457.025921	516.370316
1129	0.0827	22.8000		0.2300	800.462504	457.239926	516.66201
1130	0.0827	22.8000		0.2300	800.861035	457.454066	516.953848
1131	0.0827	22.8000		0.2300	801.259536	457.668343	517.245829
1132	0.0827	22.8000		0.2300	801.658006	457.882755	517.537953
1133	0.0827	22.8000		0.2300	802.056445	458.097302	517.830221
1134	0.0828	22.8000		0.2300	802.454852	458.311986	518.122631
1135	0.0828	22.8000		0.2300	802.853229	458.526804	518.415184
1136	0.0828	22.8000		0.2300	803.251574	458.741758	518.70788
1137	0.0828	22.8000		0.2300	803.649889	458.956848	519.000719
1138	0.0828	22.8000		0.2300	804.048172	459.172072	519.2937
1139	0.0828	22.8000		0.2300	804.446425	459.387432	519.586823
1140	0.0828	22.8000		0.2300	804.844647	459.602927	519.880088
1141	0.0828	22.8000		0.2300	805.242837	459.818557	520.173495
1142	0.0828	22.8000		0.2300	805.640997	460.034321	520.467044
1143	0.0828	22.8000		0.2300	806.039126	460.250221	520.760734

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1144	0.0829	22.8000		0.2300	806.437224	460.466255	521.054566
1145	0.0829	22.8000		0.2300	806.835291	460.682424	521.348539
1146	0.0829	22.8000		0.2300	807.233327	460.898728	521.642654
1147	0.0829	22.8000		0.2300	807.631332	461.115166	521.936909
1148	0.0829	22.8000		0.2300	808.029307	461.331739	522.231305
1149	0.0829	22.8000		0.2300	808.42725	461.548446	522.525842
1150	0.0829	22.8000		0.2300	808.825163	461.765287	522.820519
1151	0.0829	22.8000		0.2300	809.223045	461.982263	523.115337
1152	0.0829	22.8000		0.2300	809.620896	462.199373	523.410295
1153	0.0829	22.8000		0.2300	810.018717	462.416616	523.705393
1154	0.0829	22.8000		0.2300	810.416506	462.633994	524.000631
1155	0.0830	22.8000		0.2300	810.814265	462.851506	524.296009
1156	0.0830	22.8000		0.2300	811.211993	463.069151	524.591527
1157	0.0830	22.8000		0.2300	811.60969	463.286931	524.887184
1158	0.0830	22.8000		0.2300	812.007357	463.504844	525.18298
1159	0.0830	22.8000		0.2300	812.404993	463.72289	525.478916
1160	0.0830	22.8000		0.2300	812.802598	463.941071	525.77499
1161	0.0830	22.8000		0.2300	813.200172	464.159384	526.071204
1162	0.0830	22.8000		0.2300	813.597716	464.377831	526.367556
1163	0.0830	22.8000		0.2300	813.995229	464.596412	526.664047
1164	0.0830	22.8000		0.2300	814.392711	464.815125	526.960676
1165	0.0830	22.8000		0.2300	814.790163	465.033972	527.257443
1166	0.0831	22.8000		0.2300	815.187584	465.252951	527.554349
1167	0.0831	22.8000		0.2300	815.584975	465.472064	527.851392
1168	0.0831	22.8000		0.2300	815.982335	465.69131	528.148574
1169	0.0831	22.8000		0.2300	816.379664	465.910688	528.445893
1170	0.0831	22.8000		0.2300	816.776963	466.1302	528.74335
1171	0.0831	22.8000		0.2300	817.174231	466.349844	529.040944
1172	0.0831	22.8000		0.2300	817.571469	466.56962	529.338675
1173	0.0831	22.8000		0.2300	817.968676	466.789529	529.636543
1174	0.0831	22.8000		0.2300	818.365853	467.009571	529.934548
1175	0.0831	22.8000		0.2300	818.762999	467.229745	530.23269
1176	0.0832	22.8000		0.2300	819.160114	467.450051	530.530969
1177	0.0832	22.8000		0.2300	819.557199	467.67049	530.829384
1178	0.0832	22.8000		0.2300	819.954254	467.89106	531.127936
1179	0.0832	22.8000		0.2300	820.351278	468.111763	531.426623
1180	0.0832	22.8000		0.2300	820.748272	468.332598	531.725447
1181	0.0832	22.8000		0.2300	821.145235	468.553564	532.024407
1182	0.0832	22.8000		0.2300	821.542168	468.774663	532.323502
1183	0.0832	22.8000		0.2300	821.93907	468.995893	532.622733
1184	0.0832	22.8000		0.2300	822.335942	469.217255	532.922099

	AC	AD	AE	AF	AG	AH
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21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K
1185	0.0832	22.8000	0.2300	822.732784	469.438749	533.221601
1186	0.0832	22.8000	0.2300	823.129595	469.660374	533.521238
1187	0.0833	22.8000	0.2300	823.526376	469.88213	533.82101
1188	0.0833	22.8000	0.2300	823.923126	470.104018	534.120916
1189	0.0833	22.8000	0.2300	824.319847	470.326038	534.420958
1190	0.0833	22.8000	0.2300	824.716537	470.548188	534.721133
1191	0.0833	22.8000	0.2300	825.113196	470.77047	535.021444
1192	0.0833	22.8000	0.2300	825.509825	470.992882	535.321888
1193	0.0833	22.8000	0.2300	825.906424	471.215426	535.622467
1194	0.0833	22.8000	0.2300	826.302993	471.438101	535.92318
1195	0.0833	22.8000	0.2300	826.699531	471.660906	536.224026
1196	0.0833	22.8000	0.2300	827.09604	471.883843	536.525006
1197	0.0834	22.8000	0.2300	827.492518	472.10691	536.82612
1198	0.0834	22.8000	0.2300	827.888965	472.330107	537.127367
1199	0.0834	22.8000	0.2300	828.285383	472.553435	537.428747
1200	0.0834	22.8000	0.2300	828.68177	472.776894	537.730261
1201	0.0834	22.8000	0.2300	829.078127	473.000483	538.031907
1202	0.0834	22.8000	0.2300	829.474454	473.224203	538.333686
1203	0.0834	22.8000	0.2300	829.870751	473.448052	538.635598
1204	0.0834	22.8000	0.2300	830.267018	473.672032	538.937642
1205	0.0834	22.8000	0.2300	830.663254	473.896142	539.239819
1206	0.0834	22.8000	0.2300	831.059461	474.120382	539.542127
1207	0.0834	22.8000	0.2300	831.455637	474.344751	539.844568
1208	0.0835	22.8000	0.2300	831.851783	474.569251	540.147141
1209	0.0835	22.8000	0.2300	832.247899	474.79388	540.449845
1210	0.0835	22.8000	0.2300	832.643985	475.01864	540.752682
1211	0.0835	22.8000	0.2300	833.040041	475.243528	541.055649
1212	0.0835	22.8000	0.2300	833.436067	475.468547	541.358748
1213	0.0835	22.8000	0.2300	833.832063	475.693695	541.661978
1214	0.0835	22.8000	0.2300	834.228029	475.918972	541.965339
1215	0.0835	22.8000	0.2300	834.623965	476.144378	542.268831
1216	0.0835	22.8000	0.2300	835.019871	476.369914	542.572454
1217	0.0835	22.8000	0.2300	835.415747	476.595579	542.876208
1218	0.0835	22.8000	0.2300	835.811593	476.821373	543.180091
1219	0.0836	22.8000	0.2300	836.207409	477.047296	543.484106
1220	0.0836	22.8000	0.2300	836.603195	477.273348	543.78825
1221	0.0836	22.8000	0.2300	836.998951	477.499529	544.092524
1222	0.0836	22.8000	0.2300	837.394677	477.725839	544.396928
1223	0.0836	22.8000	0.2300	837.790373	477.952277	544.701462
1224	0.0836	22.8000	0.2300	838.18604	478.178845	545.006126
1225	0.0836	22.8000	0.2300	838.581676	478.40554	545.310919

	AC	AD	AE	AF	AG	AH	
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21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1226	0.0836	22.8000		0.2300	838.977283	478.632364	545.615841
1227	0.0836	22.8000		0.2300	839.372859	478.859317	545.920893
1228	0.0837	22.8000		0.2300	839.782155	479.086398	546.226073
1229	0.0837	22.8000		0.2300	840.201134	479.313616	546.531397
1230	0.0837	22.8000		0.2300	840.626932	479.540976	546.836873
1231	0.0837	22.8000		0.2300	841.057524	479.768484	547.14251
1232	0.0837	22.8000		0.2300	841.491477	479.996143	547.448312
1233	0.0837	22.8000		0.2300	841.92778	480.223953	547.754282
1234	0.0837	22.8000		0.2300	842.365722	480.451917	548.060423
1235	0.0838	22.8000		0.2300	842.804801	480.680036	548.366735
1236	0.0838	22.8000		0.2300	843.244665	480.90831	548.673221
1237	0.0838	22.8000		0.2300	843.685066	481.136739	548.979881
1238	0.0838	22.8000		0.2300	844.125829	481.365325	549.286715
1239	0.0838	22.8000		0.2300	844.566833	481.594066	549.593724
1240	0.0838	22.8000		0.2300	845.007992	481.822964	549.900907
1241	0.0838	22.8000		0.2300	845.449246	482.052018	550.208265
1242	0.0838	22.8000		0.2300	845.890554	482.281228	550.515798
1243	0.0838	22.8000		0.2300	846.331884	482.510595	550.823505
1244	0.0838	22.8000		0.2300	846.773218	482.740117	551.131386
1245	0.0839	22.8000		0.2300	847.214541	482.969796	551.439442
1246	0.0839	22.8000		0.2300	847.655843	483.19963	551.747672
1247	0.0839	22.8000		0.2300	848.097116	483.429621	552.056076
1248	0.0839	22.8000		0.2300	848.538356	483.659767	552.364653
1249	0.0839	22.8000		0.2300	848.97956	483.89007	552.673404
1250	0.0839	22.8000		0.2300	849.420725	484.120527	552.982329
1251	0.0839	22.8000		0.2300	849.861849	484.351141	553.291426
1252	0.0839	22.8000		0.2300	850.302932	484.58191	553.600697
1253	0.0839	22.8000		0.2300	850.743973	484.812834	553.91014
1254	0.0840	22.8000		0.2300	851.184971	485.043913	554.219757
1255	0.0840	22.8000		0.2300	851.625925	485.275148	554.529545
1256	0.0840	22.8000		0.2300	852.066837	485.506538	554.839506
1257	0.0840	22.8000		0.2300	852.507704	485.738083	555.149639
1258	0.0840	22.8000		0.2300	852.948528	485.969782	555.459944
1259	0.0840	22.8000		0.2300	853.389308	486.201637	555.77042
1260	0.0840	22.8000		0.2300	853.830045	486.433646	556.081068
1261	0.0840	22.8000		0.2300	854.270737	486.66581	556.391888
1262	0.0840	22.8000		0.2300	854.711386	486.898128	556.702878
1263	0.0840	22.8000		0.2300	855.151991	487.130601	557.01404
1264	0.0841	22.8000		0.2300	855.592552	487.363229	557.325372
1265	0.0841	22.8000		0.2300	856.03307	487.59601	557.636875
1266	0.0841	22.8000		0.2300	856.473543	487.828946	557.948548

	AC	AD	AE	AF	AG	AH	
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21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1267	0.0841	22.8000		0.2300	856.913973	488.062035	558.260391
1268	0.0841	22.8000		0.2300	857.35436	488.295279	558.572405
1269	0.0841	22.8000		0.2300	857.794702	488.528677	558.884588
1270	0.0841	22.8000		0.2300	858.235001	488.762228	559.19694
1271	0.0841	22.8000		0.2300	858.675257	488.995933	559.509463
1272	0.0841	22.8000		0.2300	859.115469	489.229792	559.822154
1273	0.0842	22.8000		0.2300	859.555637	489.463804	560.135015
1274	0.0842	22.8000		0.2300	859.995762	489.69797	560.448044
1275	0.0842	22.8000		0.2300	860.435843	489.932288	560.761242
1276	0.0842	22.8000		0.2300	860.875881	490.166761	561.074609
1277	0.0842	22.8000		0.2300	861.315875	490.401386	561.388144
1278	0.0842	22.8000		0.2300	861.755827	490.636164	561.701847
1279	0.0842	22.8000		0.2300	862.195734	490.871095	562.015718
1280	0.0842	22.8000		0.2300	862.635599	491.106179	562.329757
1281	0.0842	22.8000		0.2300	863.07542	491.341416	562.643963
1282	0.0842	22.8000		0.2300	863.515197	491.576806	562.958337
1283	0.0843	22.8000		0.2300	863.954932	491.812348	563.272878
1284	0.0843	22.8000		0.2300	864.394623	492.048043	563.587586
1285	0.0843	22.8000		0.2300	864.834271	492.283889	563.902461
1286	0.0843	22.8000		0.2300	865.273876	492.519889	564.217502
1287	0.0843	22.8000		0.2300	865.713438	492.75604	564.53271
1288	0.0843	22.8000		0.2300	866.152957	492.992344	564.848084
1289	0.0843	22.8000		0.2300	866.592432	493.228799	565.163624
1290	0.0843	22.8000		0.2300	867.031865	493.465407	565.479331
1291	0.0843	22.8000		0.2300	867.471254	493.702166	565.795203
1292	0.0843	22.8000		0.2300	867.910601	493.939077	566.11124
1293	0.0844	22.8000		0.2300	868.349904	494.17614	566.427443
1294	0.0844	22.8000		0.2300	868.789165	494.413354	566.743811
1295	0.0844	22.8000		0.2300	869.228382	494.65072	567.060344
1296	0.0844	22.8000		0.2300	869.667557	494.888237	567.377041
1297	0.0844	22.8000		0.2300	870.106689	495.125905	567.693904
1298	0.0844	22.8000		0.2300	870.545778	495.363725	568.010931
1299	0.0844	22.8000		0.2300	870.984824	495.601695	568.328122
1300	0.0844	22.8000		0.2300	871.423828	495.839817	568.645477
1301	0.0844	22.8000		0.2300	871.862789	496.078089	568.962996
1302	0.0844	22.8000		0.2300	872.301707	496.316512	569.280679
1303	0.0845	22.8000		0.2300	872.740582	496.555086	569.598525
1304	0.0845	22.8000		0.2300	873.179415	496.793811	569.916534
1305	0.0845	22.8000		0.2300	873.618205	497.032686	570.234707
1306	0.0845	22.8000		0.2300	874.056952	497.271712	570.553043
1307	0.0845	22.8000		0.2300	874.495657	497.510888	570.871541

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1308	0.0845	22.8000		0.2300	874.934319	497.750214	571.190202
1309	0.0845	22.8000		0.2300	875.372939	497.98969	571.509026
1310	0.0845	22.8000		0.2300	875.811516	498.229316	571.828012
1311	0.0845	22.8000		0.2300	876.250051	498.469093	572.147159
1312	0.0846	22.8000		0.2300	876.688543	498.709019	572.466469
1313	0.0846	22.8000		0.2300	877.126993	498.949095	572.78594
1314	0.0846	22.8000		0.2300	877.565401	499.189321	573.105573
1315	0.0846	22.8000		0.2300	878.003766	499.429696	573.425368
1316	0.0846	22.8000		0.2300	878.442089	499.670221	573.745323
1317	0.0846	22.8000		0.2300	878.880369	499.910895	574.065439
1318	0.0846	22.8000		0.2300	879.318607	500.151719	574.385717
1319	0.0846	22.8000		0.2300	879.756803	500.392691	574.706154
1320	0.0846	22.8000		0.2300	880.194957	500.633813	575.026752
1321	0.0846	22.8000		0.2300	880.633068	500.875084	575.347511
1322	0.0847	22.8000		0.2300	881.071138	501.116504	575.668429
1323	0.0847	22.8000		0.2300	881.509165	501.358073	575.989508
1324	0.0847	22.8000		0.2300	881.94715	501.599791	576.310746
1325	0.0847	22.8000		0.2300	882.385093	501.841657	576.632144
1326	0.0847	22.8000		0.2300	882.822994	502.083672	576.953701
1327	0.0847	22.8000		0.2300	883.260852	502.325835	577.275417
1328	0.0847	22.8000		0.2300	883.698669	502.568147	577.597292
1329	0.0847	22.8000		0.2300	884.136444	502.810607	577.919326
1330	0.0847	22.8000		0.2300	884.574177	503.053216	578.241518
1331	0.0847	22.8000		0.2300	885.011868	503.295972	578.56387
1332	0.0848	22.8000		0.2300	885.449517	503.538877	578.886379
1333	0.0848	22.8000		0.2300	885.887124	503.781929	579.209046
1334	0.0848	22.8000		0.2300	886.324689	504.025129	579.531872
1335	0.0848	22.8000		0.2300	886.762212	504.268477	579.854855
1336	0.0848	22.8000		0.2300	887.199694	504.511973	580.177995
1337	0.0848	22.8000		0.2300	887.637134	504.755616	580.501293
1338	0.0848	22.8000		0.2300	888.074532	504.999407	580.824749
1339	0.0848	22.8000		0.2300	888.511888	505.243345	581.148361
1340	0.0848	22.8000		0.2300	888.949203	505.487431	581.47213
1341	0.0849	22.8000		0.2300	889.386476	505.731664	581.796056
1342	0.0849	22.8000		0.2300	889.823707	505.976044	582.120138
1343	0.0849	22.8000		0.2300	890.260897	506.22057	582.444377
1344	0.0849	22.8000		0.2300	890.698045	506.465244	582.768772
1345	0.0849	22.8000		0.2300	891.135151	506.710065	583.093322
1346	0.0849	22.8000		0.2300	891.572216	506.955032	583.418029
1347	0.0849	22.8000		0.2300	892.009239	507.200147	583.742891
1348	0.0849	22.8000		0.2300	892.446221	507.445407	584.067909

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1349	0.0849	22.8000	0.2300	892.883162	507.690814	584.393081
1350	0.0849	22.8000	0.2300	893.320061	507.936368	584.718409
1351	0.0850	22.8000	0.2300	893.756918	508.182068	585.043892
1352	0.0850	22.8000	0.2300	894.193734	508.427914	585.36953
1353	0.0850	22.8000	0.2300	894.630509	508.673906	585.695322
1354	0.0850	22.8000	0.2300	895.067242	508.920044	586.021268
1355	0.0850	22.8000	0.2300	895.503935	509.166329	586.347369
1356	0.0850	22.8000	0.2300	895.940585	509.412759	586.673624
1357	0.0850	22.8000	0.2300	896.377195	509.659334	587.000032
1358	0.0850	22.8000	0.2300	896.813763	509.906056	587.326594
1359	0.0850	22.8000	0.2300	897.25029	510.152923	587.65331
1360	0.0850	22.8000	0.2300	897.686776	510.399935	587.980179
1361	0.0851	22.8000	0.2300	898.123221	510.647093	588.307202
1362	0.0851	22.8000	0.2300	898.559624	510.894397	588.634377
1363	0.0851	22.8000	0.2300	898.995987	511.141845	588.961705
1364	0.0851	22.8000	0.2300	899.432308	511.389439	589.289185
1365	0.0851	22.8000	0.2300	899.868589	511.637177	589.616819
1366	0.0851	22.8000	0.2300	900.304828	511.885061	589.944604
1367	0.0851	22.8000	0.2300	900.741026	512.133089	590.272542
1368	0.0851	22.8000	0.2300	901.177183	512.381262	590.600631
1369	0.0851	22.8000	0.2300	901.613299	512.62958	590.928872
1370	0.0851	22.8000	0.2300	902.049375	512.878042	591.257265
1371	0.0852	22.8000	0.2300	902.485409	513.126649	591.585809
1372	0.0852	22.8000	0.2300	902.921403	513.375401	591.914505
1373	0.0852	22.8000	0.2300	903.357355	513.624296	592.243351
1374	0.0852	22.8000	0.2300	903.793267	513.873336	592.572349
1375	0.0852	22.8000	0.2300	904.229138	514.12252	592.901497
1376	0.0852	22.8000	0.2300	904.664968	514.371848	593.230796
1377	0.0852	22.8000	0.2300	905.100757	514.62132	593.560245
1378	0.0852	22.8000	0.2300	905.536506	514.870936	593.889844
1379	0.0852	22.8000	0.2300	905.972214	515.120695	594.219593
1380	0.0852	22.8000	0.2300	906.407881	515.370598	594.549492
1381	0.0853	22.8000	0.2300	906.843508	515.620645	594.879541
1382	0.0853	22.8000	0.2300	907.279093	515.870835	595.20974
1383	0.0853	22.8000	0.2300	907.714639	516.121169	595.540088
1384	0.0853	22.8000	0.2300	908.150143	516.371646	595.870585
1385	0.0853	22.8000	0.2300	908.585607	516.622266	596.201231
1386	0.0853	22.8000	0.2300	909.021031	516.87303	596.532025
1387	0.0853	22.8000	0.2300	909.456414	517.123936	596.862969
1388	0.0853	22.8000	0.2300	909.891756	517.374986	597.194061
1389	0.0853	22.8000	0.2300	910.327058	517.626178	597.525301

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1390	0.0854	22.8000	0.2300	910.76232	517.877513	597.856689
1391	0.0854	22.8000	0.2300	911.197541	518.128991	598.188226
1392	0.0854	22.8000	0.2300	911.632722	518.380611	598.51991
1393	0.0854	22.8000	0.2300	912.067862	518.632374	598.851742
1394	0.0854	22.8000	0.2300	912.502962	518.884279	599.183721
1395	0.0854	22.8000	0.2300	912.938021	519.136327	599.515848
1396	0.0854	22.8000	0.2300	913.373041	519.388517	599.848122
1397	0.0854	22.8000	0.2300	913.80802	519.640848	600.180543
1398	0.0854	22.8000	0.2300	914.242958	519.893322	600.51311
1399	0.0854	22.8000	0.2300	914.677857	520.145938	600.845824
1400	0.0855	22.8000	0.2300	915.112715	520.398696	601.178685
1401	0.0855	22.8000	0.2300	915.547533	520.651596	601.511692
1402	0.0855	22.8000	0.2300	915.982311	520.904637	601.844845
1403	0.0855	22.8000	0.2300	916.417049	521.15782	602.178144
1404	0.0855	22.8000	0.2300	916.851746	521.411145	602.511589
1405	0.0855	22.8000	0.2300	917.286404	521.664611	602.845179
1406	0.0855	22.8000	0.2300	917.721021	521.918218	603.178915
1407	0.0855	22.8000	0.2300	918.155598	522.171967	603.512796
1408	0.0855	22.8000	0.2300	918.590136	522.425856	603.846822
1409	0.0855	22.8000	0.2300	919.024633	522.679887	604.180993
1410	0.0856	22.8000	0.2300	919.45909	522.934059	604.515309
1411	0.0856	22.8000	0.2300	919.893508	523.188372	604.84977
1412	0.0856	22.8000	0.2300	920.327885	523.442825	605.184375
1413	0.0856	22.8000	0.2300	920.762222	523.697419	605.519124
1414	0.0856	22.8000	0.2300	921.19652	523.952154	605.854018
1415	0.0856	22.8000	0.2300	921.630778	524.207029	606.189055
1416	0.0856	22.8000	0.2300	922.064996	524.462045	606.524236
1417	0.0856	22.8000	0.2300	922.499174	524.717201	606.859561
1418	0.0856	22.8000	0.2300	922.933312	524.972498	607.195029
1419	0.0856	22.8000	0.2300	923.36741	525.227934	607.53064
1420	0.0857	22.8000	0.2300	923.801469	525.483511	607.866395
1421	0.0857	22.8000	0.2300	924.235488	525.739228	608.202292
1422	0.0857	22.8000	0.2300	924.669467	525.995085	608.538333
1423	0.0857	22.8000	0.2300	925.103407	526.251081	608.874515
1424	0.0857	22.8000	0.2300	925.537307	526.507217	609.210841
1425	0.0857	22.8000	0.2300	925.971167	526.763493	609.547308
1426	0.0857	22.8000	0.2300	926.404988	527.019909	609.883918
1427	0.0857	22.8000	0.2300	926.838769	527.276464	610.22067
1428	0.0857	22.8000	0.2300	927.27251	527.533158	610.557563
1429	0.0857	22.8000	0.2300	927.706212	527.789992	610.894598
1430	0.0858	22.8000	0.2300	928.139875	528.046964	611.231775

Attachment 1

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1431	0.0858	22.8000	0.2300	928.573497	528.304076	611.569092
1432	0.0858	22.8000	0.2300	929.007081	528.561327	611.906551
1433	0.0858	22.8000	0.2300	929.440625	528.818717	612.244151
1434	0.0858	22.8000	0.2300	929.874129	529.076246	612.581892
1435	0.0858	22.8000	0.2300	930.307594	529.333914	612.919773
1436	0.0858	22.8000	0.2300	930.741102	529.59172	613.257795
1437	0.0858	22.8000	0.2300	931.174406	529.849665	613.595957
1438	0.0858	22.8000	0.2300	931.607753	530.107748	613.934259
1439	0.0859	22.8000	0.2300	932.041061	530.36597	614.272702
1440	0.0859	22.8000	0.2300	932.474329	530.62433	614.611284
1441	0.0859	22.8000	0.2300	932.907558	530.882828	614.950005
1442	0.0859	22.8000	0.2300	933.340748	531.141465	615.288866
1443	0.0859	22.8000	0.2300	933.773899	531.400239	615.627867
1444	0.0859	22.8000	0.2300	934.20701	531.659152	615.967007
1445	0.0859	22.8000	0.2300	934.640082	531.918202	616.306285
1446	0.0859	22.8000	0.2300	935.073115	532.17739	616.645703
1447	0.0859	22.8000	0.2300	935.506109	532.436716	616.985259
1448	0.0859	22.8000	0.2300	935.939064	532.69618	617.324954
1449	0.0860	22.8000	0.2300	936.371979	532.955781	617.664787
1450	0.0860	22.8000	0.2300	936.804856	533.215519	618.004758
1451	0.0860	22.8000	0.2300	937.237693	533.475395	618.344867
1452	0.0860	22.8000	0.2300	937.670491	533.735408	618.685114
1453	0.0860	22.8000	0.2300	938.103251	533.995559	619.025499
1454	0.0860	22.8000	0.2300	938.535971	534.255846	619.366021
1455	0.0860	22.8000	0.2300	938.968652	534.51627	619.706681
1456	0.0860	22.8000	0.2300	939.401295	534.776832	620.047478
1457	0.0860	22.8000	0.2300	939.833898	535.03753	620.388412
1458	0.0860	22.8000	0.2300	940.266463	535.298365	620.729483
1459	0.0861	22.8000	0.2300	940.698989	535.559336	621.070691
1460	0.0861	22.8000	0.2300	941.131475	535.820444	621.412035
1461	0.0861	22.8000	0.2300	941.563923	536.081689	621.753516
1462	0.0861	22.8000	0.2300	941.996333	536.34307	622.095133
1463	0.0861	22.8000	0.2300	942.428703	536.604587	622.436886
1464	0.0861	22.8000	0.2300	942.861034	536.866241	622.778775
1465	0.0861	22.8000	0.2300	943.293327	537.128031	623.1208
1466	0.0861	22.8000	0.2300	943.725581	537.389956	623.46296
1467	0.0861	22.8000	0.2300	944.157797	537.652018	623.805256
1468	0.0861	22.8000	0.2300	944.589973	537.914216	624.147687
1469	0.0862	22.8000	0.2300	945.022111	538.176549	624.490253
1470	0.0862	22.8000	0.2300	945.45421	538.439018	624.832955
1471	0.0862	22.8000	0.2300	945.886271	538.701623	625.175791

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1472	0.0862	22.8000		0.2300	946.318293	538.964363	625.518762
1473	0.0862	22.8000		0.2300	946.750277	539.227238	625.861867
1474	0.0862	22.8000		0.2300	947.182222	539.490249	626.205107
1475	0.0862	22.8000		0.2300	947.614128	539.753395	626.54848
1476	0.0862	22.8000		0.2300	948.045996	540.016677	626.891988
1477	0.0862	22.8000		0.2300	948.477825	540.280093	627.23563
1478	0.0862	22.8000		0.2300	948.909616	540.543645	627.579406
1479	0.0863	22.8000		0.2300	949.341368	540.807331	627.923315
1480	0.0863	22.8000		0.2300	949.773082	541.071152	628.267357
1481	0.0863	22.8000		0.2300	950.204758	541.335108	628.611533
1482	0.0863	22.8000		0.2300	950.636395	541.599199	628.955842
1483	0.0863	22.8000		0.2300	951.067993	541.863424	629.300283
1484	0.0863	22.8000		0.2300	951.499554	542.127784	629.644858
1485	0.0863	22.8000		0.2300	951.931076	542.392278	629.989565
1486	0.0863	22.8000		0.2300	952.362559	542.656906	630.334404
1487	0.0863	22.8000		0.2300	952.794005	542.921669	630.679376
1488	0.0863	22.8000		0.2300	953.225412	543.186565	631.02448
1489	0.0864	22.8000		0.2300	953.656781	543.451596	631.369716
1490	0.0864	22.8000		0.2300	954.088111	543.716761	631.715084
1491	0.0864	22.8000		0.2300	954.519404	543.982059	632.060584
1492	0.0864	22.8000		0.2300	954.950658	544.247492	632.406215
1493	0.0864	22.8000		0.2300	955.381874	544.513058	632.751977
1494	0.0864	22.8000		0.2300	955.813052	544.778757	633.097871
1495	0.0864	22.8000		0.2300	956.244191	545.04459	633.443896
1496	0.0864	22.8000		0.2300	956.675293	545.310557	633.790051
1497	0.0864	22.8000		0.2300	957.106357	545.576657	634.136337
1498	0.0864	22.8000		0.2300	957.537382	545.84289	634.482754
1499	0.0865	22.8000		0.2300	957.968369	546.109257	634.829302
1500	0.0865	22.8000		0.2300	958.399319	546.375756	635.175979
1501	0.0865	22.8000		0.2300	958.83023	546.642389	635.522787
1502	0.0865	22.8000		0.2300	959.261103	546.909154	635.869725
1503	0.0865	22.8000		0.2300	959.691939	547.176053	636.216793
1504	0.0865	22.8000		0.2300	960.122736	547.443084	636.56399
1505	0.0865	22.8000		0.2300	960.553496	547.710247	636.911317
1506	0.0865	22.8000		0.2300	960.984217	547.977544	637.258773
1507	0.0865	22.8000		0.2300	961.414901	548.244972	637.606358
1508	0.0865	22.8000		0.2300	961.845547	548.512533	637.954073
1509	0.0866	22.8000		0.2300	962.276155	548.780227	638.301916
1510	0.0866	22.8000		0.2300	962.706725	549.048053	638.649888
1511	0.0866	22.8000		0.2300	963.137257	549.316011	638.997989
1512	0.0866	22.8000		0.2300	963.567752	549.584101	639.346218

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1513	0.0866	22.8000		0.2300	963.998208	549.852322	639.694575
1514	0.0866	22.8000		0.2300	964.428627	550.120676	640.04306
1515	0.0866	22.8000		0.2300	964.859009	550.389162	640.391675
1516	0.0866	22.8000		0.2300	965.289352	550.657779	640.740426
1517	0.0866	22.8000		0.2300	965.719658	550.926528	641.089313
1518	0.0866	22.8000		0.2300	966.149926	551.195409	641.438336
1519	0.0867	22.8000		0.2300	966.580157	551.464421	641.787495
1520	0.0867	22.8000		0.2300	967.01035	551.733564	642.136789
1521	0.0867	22.8000		0.2300	967.440505	552.002839	642.486219
1522	0.0867	22.8000		0.2300	967.870623	552.272245	642.835784
1523	0.0867	22.8000		0.2300	968.300703	552.541782	643.185485
1524	0.0867	22.8000		0.2300	968.730745	552.81145	643.535321
1525	0.0867	22.8000		0.2300	969.16075	553.081249	643.885291
1526	0.0867	22.8000		0.2300	969.590718	553.351178	644.235397
1527	0.0867	22.8000		0.2300	970.020648	553.621239	644.585637
1528	0.0868	22.8000		0.2300	970.450541	553.89143	644.936011
1529	0.0868	22.8000		0.2300	970.880396	554.161752	645.28652
1530	0.0868	22.8000		0.2300	971.310213	554.432205	645.637163
1531	0.0868	22.8000		0.2300	971.739994	554.702788	645.98794
1532	0.0868	22.8000		0.2300	972.169736	554.973501	646.338851
1533	0.0868	22.8000		0.2300	972.599442	555.244344	646.689896
1534	0.0868	22.8000		0.2300	973.02911	555.515318	647.041074
1535	0.0868	22.8000		0.2300	973.458741	555.786422	647.392386
1536	0.0868	22.8000		0.2300	973.888334	556.057656	647.743831
1537	0.0868	22.8000		0.2300	974.317891	556.329019	648.095409
1538	0.0869	22.8000		0.2300	974.747409	556.600513	648.44712
1539	0.0869	22.8000		0.2300	975.176891	556.872136	648.798963
1540	0.0869	22.8000		0.2300	975.606335	557.143889	649.15094
1541	0.0869	22.8000		0.2300	976.035743	557.415772	649.503049
1542	0.0869	22.8000		0.2300	976.465113	557.687784	649.85529
1543	0.0869	22.8000		0.2300	976.894445	557.959926	650.207664
1544	0.0869	22.8000		0.2300	977.323741	558.232197	650.56017
1545	0.0869	22.8000		0.2300	977.752999	558.504597	650.912807
1546	0.0869	22.8000		0.2300	978.182221	558.777126	651.265577
1547	0.0869	22.8000		0.2300	978.611405	559.049784	651.618478
1548	0.0870	22.8000		0.2300	979.040552	559.322572	651.97151
1549	0.0870	22.8000		0.2300	979.469662	559.595488	652.324674
1550	0.0870	22.8000		0.2300	979.898735	559.868533	652.677969
1551	0.0870	22.8000		0.2300	980.327771	560.141707	653.031395
1552	0.0870	22.8000		0.2300	980.75677	560.415009	653.384952
1553	0.0870	22.8000		0.2300	981.185732	560.68844	653.738639

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1554	0.0870	22.8000	0.2300	981.614657	560.962	654.092458
1555	0.0870	22.8000	0.2300	982.043546	561.235688	654.446406
1556	0.0870	22.8000	0.2300	982.472397	561.509504	654.800485
1557	0.0870	22.8000	0.2300	982.901211	561.783449	655.154695
1558	0.0871	22.8000	0.2300	983.329988	562.057522	655.509034
1559	0.0871	22.8000	0.2300	983.758729	562.331722	655.863503
1560	0.0871	22.8000	0.2300	984.187432	562.606051	656.218101
1561	0.0871	22.8000	0.2300	984.616099	562.880508	656.57283
1562	0.0871	22.8000	0.2300	985.044729	563.155092	656.927687
1563	0.0871	22.8000	0.2300	985.473322	563.429804	657.282674
1564	0.0871	22.8000	0.2300	985.901879	563.704644	657.63779
1565	0.0871	22.8000	0.2300	986.330398	563.979612	657.993035
1566	0.0871	22.8000	0.2300	986.758881	564.254706	658.348409
1567	0.0871	22.8000	0.2300	987.187327	564.529929	658.703912
1568	0.0872	22.8000	0.2300	987.615736	564.805278	659.059543
1569	0.0872	22.8000	0.2300	988.044109	565.080755	659.415302
1570	0.0872	22.8000	0.2300	988.472445	565.356359	659.77119
1571	0.0872	22.8000	0.2300	988.900745	565.63209	660.127206
1572	0.0872	22.8000	0.2300	989.329007	565.907948	660.483349
1573	0.0872	22.8000	0.2300	989.757234	566.183933	660.839621
1574	0.0872	22.8000	0.2300	990.185423	566.460045	661.19602
1575	0.0872	22.8000	0.2300	990.613576	566.736283	661.552547
1576	0.0872	22.8000	0.2300	991.041692	567.012648	661.909201
1577	0.0872	22.8000	0.2300	991.469772	567.28914	662.265982
1578	0.0873	22.8000	0.2300	991.897816	567.565758	662.622891
1579	0.0873	22.8000	0.2300	992.325822	567.842503	662.979926
1580	0.0873	22.8000	0.2300	992.753793	568.119374	663.337088
1581	0.0873	22.8000	0.2300	993.181727	568.396371	663.694377
1582	0.0873	22.8000	0.2300	993.609624	568.673494	664.051792
1583	0.0873	22.8000	0.2300	994.037485	568.950743	664.409334
1584	0.0873	22.8000	0.2300	994.465309	569.228118	664.767002
1585	0.0873	22.8000	0.2300	994.893098	569.505619	665.124796
1586	0.0873	22.8000	0.2300	995.320849	569.783246	665.482715
1587	0.0873	22.8000	0.2300	995.748565	570.060999	665.840761
1588	0.0874	22.8000	0.2300	996.176244	570.338877	666.198932
1589	0.0874	22.8000	0.2300	996.603887	570.616881	666.557229
1590	0.0874	22.8000	0.2300	997.031493	570.895011	666.915651
1591	0.0874	22.8000	0.2300	997.459063	571.173265	667.274199
1592	0.0874	22.8000	0.2300	997.886597	571.451645	667.632871
1593	0.0874	22.8000	0.2300	998.314095	571.730151	667.991668
1594	0.0874	22.8000	0.2300	998.741556	572.008781	668.35059

Attachment 1

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1595	0.0874	22.8000	0.2300	999.168981	572.287537	668.709637
1596	0.0874	22.8000	0.2300	999.59637	572.566417	669.068808
1597	0.0874	22.8000	0.2300	1000.02372	572.845422	669.428104
1598	0.0875	22.8000	0.2300	1000.45104	573.124553	669.787524
1599	0.0875	22.8000	0.2300	1000.87832	573.403808	670.147068
1600	0.0875	22.8000	0.2300	1001.30556	573.683187	670.506736
1601	0.0875	22.8000	0.2300	1001.73277	573.962691	670.866527
1602	0.0875	22.8000	0.2300	1002.15994	574.24232	671.226442
1603	0.0875	22.8000	0.2300	1002.58708	574.522073	671.586481
1604	0.0875	22.8000	0.2300	1003.01418	574.80195	671.946643
1605	0.0875	22.8000	0.2300	1003.44124	575.081952	672.306929
1606	0.0875	22.8000	0.2300	1003.86827	575.362078	672.667337
1607	0.0875	22.8000	0.2300	1004.29526	575.642327	673.027868
1608	0.0876	22.8000	0.2300	1004.72222	575.922701	673.388523
1609	0.0876	22.8000	0.2300	1005.14914	576.203199	673.749299
1610	0.0876	22.8000	0.2300	1005.57602	576.48382	674.110199
1611	0.0876	22.8000	0.2300	1006.00287	576.764566	674.47122
1612	0.0876	22.8000	0.2300	1006.42968	577.045435	674.832364
1613	0.0876	22.8000	0.2300	1006.85646	577.326427	675.19363
1614	0.0876	22.8000	0.2300	1007.2832	577.607543	675.555018
1615	0.0876	22.8000	0.2300	1007.70991	577.888783	675.916528
1616	0.0876	22.8000	0.2300	1008.13657	578.170145	676.27816
1617	0.0876	22.8000	0.2300	1008.56321	578.451631	676.639913
1618	0.0877	22.8000	0.2300	1008.9898	578.73324	677.001787
1619	0.0877	22.8000	0.2300	1009.41637	579.014973	677.363783
1620	0.0877	22.8000	0.2300	1009.84289	579.296828	677.7259
1621	0.0877	22.8000	0.2300	1010.26938	579.578806	678.088137
1622	0.0877	22.8000	0.2300	1010.69583	579.860907	678.450496
1623	0.0877	22.8000	0.2300	1011.12225	580.143131	678.812975
1624	0.0877	22.8000	0.2300	1011.54864	580.425477	679.175575
1625	0.0877	22.8000	0.2300	1011.97498	580.707946	679.538295
1626	0.0877	22.8000	0.2300	1012.40129	580.990538	679.901136
1627	0.0877	22.8000	0.2300	1012.82757	581.273252	680.264097
1628	0.0878	22.8000	0.2300	1013.25381	581.556088	680.627177
1629	0.0878	22.8000	0.2300	1013.68001	581.839047	680.990378
1630	0.0878	22.8000	0.2300	1014.10618	582.122128	681.353698
1631	0.0878	22.8000	0.2300	1014.53231	582.40533	681.717138
1632	0.0878	22.8000	0.2300	1014.95841	582.688655	682.080698
1633	0.0878	22.8000	0.2300	1015.38447	582.972102	682.444376
1634	0.0878	22.8000	0.2300	1015.8105	583.255671	682.808174
1635	0.0878	22.8000	0.2300	1016.23649	583.539361	683.172091

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1636	0.0878	22.8000	0.2300	1016.66245	583.823174	683.536127
1637	0.0878	22.8000	0.2300	1017.08837	584.107107	683.900282
1638	0.0879	22.8000	0.2300	1017.51425	584.391163	684.264555
1639	0.0879	22.8000	0.2300	1017.9401	584.67534	684.628946
1640	0.0879	22.8000	0.2300	1018.36591	584.959638	684.993457
1641	0.0879	22.8000	0.2300	1018.79169	585.244057	685.358085
1642	0.0879	22.8000	0.2300	1019.21743	585.528598	685.722831
1643	0.0879	22.8000	0.2300	1019.64314	585.81326	686.087695
1644	0.0879	22.8000	0.2300	1020.06881	586.098042	686.452678
1645	0.0879	22.8000	0.2300	1020.49445	586.382946	686.817777
1646	0.0879	22.8000	0.2300	1020.92005	586.667971	687.182995
1647	0.0879	22.8000	0.2300	1021.34562	586.953116	687.548329
1648	0.0880	22.8000	0.2300	1021.77115	587.238383	687.913781
1649	0.0880	22.8000	0.2300	1022.19664	587.52377	688.279351
1650	0.0880	22.8000	0.2300	1022.6221	587.809277	688.645037
1651	0.0880	22.8000	0.2300	1023.04753	588.094905	689.01084
1652	0.0880	22.8000	0.2300	1023.47292	588.380653	689.376759
1653	0.0880	22.8000	0.2300	1023.89827	588.666522	689.742796
1654	0.0880	22.8000	0.2300	1024.32359	588.952511	690.108949
1655	0.0880	22.8000	0.2300	1024.74887	589.23862	690.475218
1656	0.0880	22.8000	0.2300	1025.17412	589.524849	690.841603
1657	0.0880	22.8000	0.2300	1025.59933	589.811198	691.208104
1658	0.0881	22.8000	0.2300	1026.02451	590.097667	691.574721
1659	0.0881	22.8000	0.2300	1026.44966	590.384256	691.941454
1660	0.0881	22.8000	0.2300	1026.87476	590.670964	692.308303
1661	0.0881	22.8000	0.2300	1027.29984	590.957793	692.675267
1662	0.0881	22.8000	0.2300	1027.72487	591.244741	693.042347
1663	0.0881	22.8000	0.2300	1028.14988	591.531808	693.409542
1664	0.0881	22.8000	0.2300	1028.57485	591.818995	693.776852
1665	0.0881	22.8000	0.2300	1028.99978	592.106301	694.144277
1666	0.0881	22.8000	0.2300	1029.42468	592.393726	694.511816
1667	0.0881	22.8000	0.2300	1029.84954	592.681271	694.879471
1668	0.0882	22.8000	0.2300	1030.27437	592.968935	695.24724
1669	0.0882	22.8000	0.2300	1030.69916	593.256718	695.615123
1670	0.0882	22.8000	0.2300	1031.12392	593.544619	695.983121
1671	0.0882	22.8000	0.2300	1031.54864	593.83264	696.351233
1672	0.0882	22.8000	0.2300	1031.97333	594.12078	696.719459
1673	0.0882	22.8000	0.2300	1032.39798	594.409038	697.087799
1674	0.0882	22.8000	0.2300	1032.8226	594.697414	697.456253
1675	0.0882	22.8000	0.2300	1033.24718	594.98591	697.82482
1676	0.0882	22.8000	0.2300	1033.67173	595.274524	698.193501

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1677	0.0882	22.8000		0.2300	1034.09625	595.563256	698.562295
1678	0.0883	22.8000		0.2300	1034.52072	595.852106	698.931203
1679	0.0883	22.8000		0.2300	1034.94517	596.141075	699.300223
1680	0.0883	22.8000		0.2300	1035.36958	596.430162	699.669357
1681	0.0883	22.8000		0.2300	1035.79395	596.719367	700.038604
1682	0.0883	22.8000		0.2300	1036.21829	597.00869	700.407963
1683	0.0883	22.8000		0.2300	1036.6426	597.298131	700.777435
1684	0.0883	22.8000		0.2300	1037.06687	597.58769	701.147019
1685	0.0883	22.8000		0.2300	1037.4911	597.877366	701.516716
1686	0.0883	22.8000		0.2300	1037.9153	598.16716	701.886524
1687	0.0883	22.8000		0.2300	1038.33947	598.457072	702.256445
1688	0.0884	22.8000		0.2300	1038.7636	598.747101	702.626478
1689	0.0884	22.8000		0.2300	1039.1877	599.037248	702.996623
1690	0.0884	22.8000		0.2300	1039.61176	599.327512	703.366879
1691	0.0884	22.8000		0.2300	1040.03579	599.617894	703.737247
1692	0.0884	22.8000		0.2300	1040.45978	599.908392	704.107726
1693	0.0884	22.8000		0.2300	1040.88374	600.199008	704.478317
1694	0.0884	22.8000		0.2300	1041.30766	600.489741	704.849019
1695	0.0884	22.8000		0.2300	1041.73155	600.780591	705.219831
1696	0.0884	22.8000		0.2300	1042.15541	601.071557	705.590755
1697	0.0884	22.8000		0.2300	1042.57923	601.362641	705.96179
1698	0.0884	22.8000		0.2300	1043.00301	601.653841	706.332935
1699	0.0885	22.8000		0.2300	1043.42676	601.945158	706.70419
1700	0.0885	22.8000		0.2300	1043.85048	602.236591	707.075556
1701	0.0885	22.8000		0.2300	1044.27416	602.528141	707.447033
1702	0.0885	22.8000		0.2300	1044.69781	602.819807	707.818619
1703	0.0885	22.8000		0.2300	1045.12142	603.11159	708.190315
1704	0.0885	22.8000		0.2300	1045.545	603.403489	708.562122
1705	0.0885	22.8000		0.2300	1045.96855	603.695504	708.934038
1706	0.0885	22.8000		0.2300	1046.39206	603.987635	709.306063
1707	0.0885	22.8000		0.2300	1046.81553	604.279882	709.678198
1708	0.0885	22.8000		0.2300	1047.23898	604.572245	710.050443
1709	0.0886	22.8000		0.2300	1047.66238	604.864724	710.422796
1710	0.0886	22.8000		0.2300	1048.08576	605.157319	710.795259
1711	0.0886	22.8000		0.2300	1048.50909	605.450029	711.167831
1712	0.0886	22.8000		0.2300	1048.9324	605.742855	711.540512
1713	0.0886	22.8000		0.2300	1049.35567	606.035797	711.913301
1714	0.0886	22.8000		0.2300	1049.7789	606.328854	712.286199
1715	0.0886	22.8000		0.2300	1050.20211	606.622027	712.659205
1716	0.0886	22.8000		0.2300	1050.62527	606.915315	713.03232
1717	0.0886	22.8000		0.2300	1051.04841	607.208718	713.405543

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1718	0.0886	22.8000		0.2300	1051.4715	607.502236	713.778874
1719	0.0887	22.8000		0.2300	1051.89457	607.795869	714.152313
1720	0.0887	22.8000		0.2300	1052.3176	608.089618	714.52586
1721	0.0887	22.8000		0.2300	1052.7406	608.383481	714.899514
1722	0.0887	22.8000		0.2300	1053.16356	608.677459	715.273276
1723	0.0887	22.8000		0.2300	1053.58649	608.971552	715.647146
1724	0.0887	22.8000		0.2300	1054.00938	609.265759	716.021123
1725	0.0887	22.8000		0.2300	1054.43224	609.560081	716.395207
1726	0.0887	22.8000		0.2300	1054.85506	609.854518	716.769398
1727	0.0887	22.8000		0.2300	1055.27786	610.149069	717.143696
1728	0.0887	22.8000		0.2300	1055.70061	610.443735	717.518101
1729	0.0888	22.8000		0.2300	1056.12334	610.738515	717.892612
1730	0.0888	22.8000		0.2300	1056.54603	611.033409	718.26723
1731	0.0888	22.8000		0.2300	1056.96868	611.328417	718.641955
1732	0.0888	22.8000		0.2300	1057.3913	611.623539	719.016786
1733	0.0888	22.8000		0.2300	1057.81389	611.918776	719.391723
1734	0.0888	22.8000		0.2300	1058.23644	612.214126	719.766766
1735	0.0888	22.8000		0.2300	1058.65896	612.50959	720.141916
1736	0.0888	22.8000		0.2300	1059.08145	612.805168	720.51717
1737	0.0888	22.8000		0.2300	1059.5039	613.100859	720.892531
1738	0.0888	22.8000		0.2300	1059.92632	613.396664	721.267997
1739	0.0889	22.8000		0.2300	1060.3487	613.692583	721.643569
1740	0.0889	22.8000		0.2300	1060.77105	613.988615	722.019246
1741	0.0889	22.8000		0.2300	1061.19337	614.28476	722.395028
1742	0.0889	22.8000		0.2300	1061.61565	614.581019	722.770916
1743	0.0889	22.8000		0.2300	1062.0379	614.877391	723.146908
1744	0.0889	22.8000		0.2300	1062.46011	615.173876	723.523005
1745	0.0889	22.8000		0.2300	1062.88229	615.470474	723.899207
1746	0.0889	22.8000		0.2300	1063.30444	615.767186	724.275513
1747	0.0889	22.8000		0.2300	1063.72656	616.06401	724.651924
1748	0.0889	22.8000		0.2300	1064.14863	616.360947	725.028439
1749	0.0890	22.8000		0.2300	1064.57068	616.657996	725.405059
1750	0.0890	22.8000		0.2300	1064.99269	616.955159	725.781782
1751	0.0890	22.8000		0.2300	1065.41467	617.252434	726.15861
1752	0.0890	22.8000		0.2300	1065.83661	617.549821	726.535541
1753	0.0890	22.8000		0.2300	1066.25853	617.847321	726.912576
1754	0.0890	22.8000		0.2300	1066.6804	618.144933	727.289715
1755	0.0890	22.8000		0.2300	1067.10225	618.442658	727.666957
1756	0.0890	22.8000		0.2300	1067.52406	618.740495	728.044303
1757	0.0890	22.8000		0.2300	1067.94583	619.038444	728.421751
1758	0.0890	22.8000		0.2300	1068.36757	619.336505	728.799303

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1759	0.0891	22.8000	0.2300	1068.78928	619.634678	729.176958
1760	0.0891	22.8000	0.2300	1069.21096	619.932963	729.554716
1761	0.0891	22.8000	0.2300	1069.6326	620.23136	729.932576
1762	0.0891	22.8000	0.2300	1070.05421	620.529868	730.310539
1763	0.0891	22.8000	0.2300	1070.47578	620.828488	730.688605
1764	0.0891	22.8000	0.2300	1070.89732	621.12722	731.066773
1765	0.0891	22.8000	0.2300	1071.31883	621.426064	731.445043
1766	0.0891	22.8000	0.2300	1071.74031	621.725019	731.823416
1767	0.0891	22.8000	0.2300	1072.16175	622.024085	732.20189
1768	0.0891	22.8000	0.2300	1072.58315	622.323262	732.580467
1769	0.0892	22.8000	0.2300	1073.00453	622.622551	732.959145
1770	0.0892	22.8000	0.2300	1073.42587	622.921951	733.337925
1771	0.0892	22.8000	0.2300	1073.84717	623.221462	733.716806
1772	0.0892	22.8000	0.2300	1074.26845	623.521084	734.095789
1773	0.0892	22.8000	0.2300	1074.68969	623.820817	734.474873
1774	0.0892	22.8000	0.2300	1075.11089	624.120661	734.854058
1775	0.0892	22.8000	0.2300	1075.53207	624.420615	735.233345
1776	0.0892	22.8000	0.2300	1075.95321	624.720681	735.612732
1777	0.0892	22.8000	0.2300	1076.37431	625.020857	735.99222
1778	0.0892	22.8000	0.2300	1076.79538	625.321143	736.371809
1779	0.0893	22.8000	0.2300	1077.21642	625.62154	736.751499
1780	0.0893	22.8000	0.2300	1077.63743	625.922047	737.131289
1781	0.0893	22.8000	0.2300	1078.0584	626.222665	737.511179
1782	0.0893	22.8000	0.2300	1078.47934	626.523393	737.89117
1783	0.0893	22.8000	0.2300	1078.90025	626.824231	738.27126
1784	0.0893	22.8000	0.2300	1079.32112	627.125179	738.651451
1785	0.0893	22.8000	0.2300	1079.74196	627.426237	739.031742
1786	0.0893	22.8000	0.2300	1080.16277	627.727405	739.412132
1787	0.0893	22.8000	0.2300	1080.58354	628.028683	739.792622
1788	0.0893	22.8000	0.2300	1081.00428	628.330071	740.173211
1789	0.0893	22.8000	0.2300	1081.42499	628.631569	740.5539
1790	0.0894	22.8000	0.2300	1081.84566	628.933176	740.934688
1791	0.0894	22.8000	0.2300	1082.2663	629.234893	741.315576
1792	0.0894	22.8000	0.2300	1082.68691	629.536719	741.696562
1793	0.0894	22.8000	0.2300	1083.10749	629.838654	742.077648
1794	0.0894	22.8000	0.2300	1083.52803	630.140699	742.458832
1795	0.0894	22.8000	0.2300	1083.94854	630.442854	742.840115
1796	0.0894	22.8000	0.2300	1084.36901	630.745117	743.221496
1797	0.0894	22.8000	0.2300	1084.78945	631.04749	743.602976
1798	0.0894	22.8000	0.2300	1085.20986	631.349971	743.984555
1799	0.0894	22.8000	0.2300	1085.63024	631.652562	744.366231

Attachment 1

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1800	0.0895	22.8000		0.2300	1086.05058	631.955261	744.748006
1801	0.0895	22.8000		0.2300	1086.47089	632.25807	745.129879
1802	0.0895	22.8000		0.2300	1086.89117	632.560987	745.511849
1803	0.0895	22.8000		0.2300	1087.31141	632.864013	745.893917
1804	0.0895	22.8000		0.2300	1087.73162	633.167147	746.276084
1805	0.0895	22.8000		0.2300	1088.1518	633.47039	746.658347
1806	0.0895	22.8000		0.2300	1088.57194	633.773741	747.040708
1807	0.0895	22.8000		0.2300	1088.99205	634.077201	747.423166
1808	0.0895	22.8000		0.2300	1089.41213	634.380769	747.805722
1809	0.0895	22.8000		0.2300	1089.83218	634.684445	748.188375
1810	0.0896	22.8000		0.2300	1090.25219	634.988229	748.571124
1811	0.0896	22.8000		0.2300	1090.66988	635.292122	748.953971
1812	0.0930	22.8000		0.2300	1091.0839	635.596121	749.336911
1813	0.0971	22.8000		0.2300	1091.49449	635.900224	749.719942
1814	0.1010	22.8000		0.2300	1091.90098	636.204428	750.103058
1815	0.1049	22.8000		0.2300	1092.30311	636.508732	750.486256
1816	0.1087	22.8000		0.2300	1092.70088	636.813131	750.869531
1817	0.1125	22.8000		0.2300	1093.09437	637.117623	751.252877
1818	0.1163	22.8000		0.2300	1093.48439	637.422205	751.63629
1819	0.1199	22.8000		0.2300	1093.87307	637.726875	752.019765
1820	0.1203	22.8000		0.2300	1094.26034	638.031632	752.403301
1821	0.1207	22.8000		0.2300	1094.64616	638.336474	752.786897
1822	0.1211	22.8000		0.2300	1095.03103	638.641401	753.170551
1823	0.1215	22.8000		0.2300	1095.41519	638.946412	753.554261
1824	0.1219	22.8000		0.2300	1095.79878	639.251507	753.938027
1825	0.1223	22.8000		0.2300	1096.18186	639.556685	754.321849
1826	0.1227	22.8000		0.2300	1096.56448	639.861945	754.705725
1827	0.1231	22.8000		0.2300	1096.94665	640.167288	755.089655
1828	0.1235	22.8000		0.2300	1097.32839	640.472716	755.473638
1829	0.1239	22.8000		0.2300	1097.7097	640.778233	755.857674
1830	0.1243	22.8000		0.2300	1098.09058	641.083837	756.241763
1831	0.1247	22.8000		0.2300	1098.47105	641.389529	756.625903
1832	0.1251	22.8000		0.2300	1098.85109	641.695308	757.010095
1833	0.1255	22.8000		0.2300	1099.23072	642.001174	757.394337
1834	0.1259	22.8000		0.2300	1099.60994	642.307127	757.77863
1835	0.1263	22.8000		0.2300	1099.98874	642.613166	758.162973
1836	0.1267	22.8000		0.2300	1100.36713	642.91929	758.547365
1837	0.1271	22.8000		0.2300	1100.74511	643.225501	758.931805
1838	0.1275	22.8000		0.2300	1101.12267	643.531797	759.316294
1839	0.1279	22.8000		0.2300	1101.49983	643.838177	759.70083
1840	0.1283	22.8000		0.2300	1101.87659	644.144643	760.085414

Attachment 1

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1841	0.1286	22.8000		0.2300	1102.25294	644.451192	760.470045
1842	0.1290	22.8000		0.2300	1102.62888	644.757826	760.854722
1843	0.1294	22.8000		0.2300	1103.00442	645.064544	761.239444
1844	0.1298	22.8000		0.2300	1103.37956	645.371344	761.624212
1845	0.1302	22.8000		0.2300	1103.7543	645.678229	762.009025
1846	0.1306	22.8000		0.2300	1104.12864	645.985195	762.393881
1847	0.1310	22.8000		0.2300	1104.50258	646.292245	762.778782
1848	0.1314	22.8000		0.2300	1104.87612	646.599376	763.163726
1849	0.1318	22.8000		0.2300	1105.24927	646.90659	763.548713
1850	0.1322	22.8000		0.2300	1105.62203	647.213885	763.933742
1851	0.1326	22.8000		0.2300	1105.99439	647.521261	764.318812
1852	0.1330	22.8000		0.2300	1106.36637	647.828718	764.703925
1853	0.1334	22.8000		0.2300	1106.73795	648.136256	765.089078
1854	0.1337	22.8000		0.2300	1107.10914	648.443874	765.474271
1855	0.1341	22.8000		0.2300	1107.47994	648.751573	765.859505
1856	0.1345	22.8000		0.2300	1107.85036	649.059351	766.244777
1857	0.1349	22.8000		0.2300	1108.22039	649.367208	766.630089
1858	0.1353	22.8000		0.2300	1108.59004	649.675145	767.01544
1859	0.1357	22.8000		0.2300	1108.95931	649.983161	767.400828
1860	0.1361	22.8000		0.2300	1109.32819	650.291255	767.786254
1861	0.1365	22.8000		0.2300	1109.6967	650.599428	768.171717
1862	0.1368	22.8000		0.2300	1110.06482	650.907678	768.557217
1863	0.1372	22.8000		0.2300	1110.43257	651.216007	768.942753
1864	0.1376	22.8000		0.2300	1110.79993	651.524412	769.328324
1865	0.1380	22.8000		0.2300	1111.16693	651.832895	769.713931
1866	0.1384	22.8000		0.2300	1111.53355	652.141455	770.099573
1867	0.1388	22.8000		0.2300	1111.89979	652.450091	770.485249
1868	0.1391	22.8000		0.2300	1112.26566	652.758803	770.870959
1869	0.1395	22.8000		0.2300	1112.63116	653.067592	771.256702
1870	0.1399	22.8000		0.2300	1112.99629	653.376456	771.642478
1871	0.1403	22.8000		0.2300	1113.36105	653.685395	772.028287
1872	0.1407	22.8000		0.2300	1113.72564	653.99441	772.414128
1873	0.1410	22.8000		0.2300	1114.09004	654.303499	772.800001
1874	0.1411	22.8000		0.2300	1114.45425	654.612663	773.185905
1875	0.1412	22.8000		0.2300	1114.81829	654.921902	773.571841
1876	0.1413	22.8000		0.2300	1115.18218	655.231216	773.957808
1877	0.1414	22.8000		0.2300	1115.54593	655.540604	774.343806
1878	0.1415	22.8000		0.2300	1115.90956	655.850065	774.729834
1879	0.1416	22.8000		0.2300	1116.27306	656.159601	775.115894
1880	0.1417	22.8000		0.2300	1116.63645	656.469211	775.501983
1881	0.1418	22.8000		0.2300	1116.99973	656.778895	775.888103

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1882	0.1419	22.8000	0.2300	1117.36289	657.088653	776.274253
1883	0.1420	22.8000	0.2300	1117.72594	657.398484	776.660433
1884	0.1422	22.8000	0.2300	1118.08888	657.708389	777.046643
1885	0.1423	22.8000	0.2300	1118.45171	658.018367	777.432883
1886	0.1424	22.8000	0.2300	1118.81442	658.328418	777.819152
1887	0.1425	22.8000	0.2300	1119.17702	658.638543	778.20545
1888	0.1426	22.8000	0.2300	1119.53951	658.94874	778.591777
1889	0.1427	22.8000	0.2300	1119.90189	659.259011	778.978134
1890	0.1428	22.8000	0.2300	1120.26415	659.569354	779.364519
1891	0.1429	22.8000	0.2300	1120.62631	659.879771	779.750933
1892	0.1430	22.8000	0.2300	1120.98835	660.190259	780.137376
1893	0.1431	22.8000	0.2300	1121.35028	660.500821	780.523847
1894	0.1432	22.8000	0.2300	1121.7121	660.811454	780.910346
1895	0.1433	22.8000	0.2300	1122.07382	661.12216	781.296873
1896	0.1435	22.8000	0.2300	1122.43541	661.432938	781.683429
1897	0.1436	22.8000	0.2300	1122.7969	661.743789	782.070012
1898	0.1437	22.8000	0.2300	1123.15828	662.054711	782.456623
1899	0.1438	22.8000	0.2300	1123.51955	662.365705	782.843261
1900	0.1439	22.8000	0.2300	1123.88071	662.67677	783.229926
1901	0.1440	22.8000	0.2300	1124.24175	662.987908	783.616619
1902	0.1441	22.8000	0.2300	1124.60269	663.299117	784.003339
1903	0.1442	22.8000	0.2300	1124.96352	663.610397	784.390086
1904	0.1443	22.8000	0.2300	1125.32423	663.921748	784.776859
1905	0.1444	22.8000	0.2300	1125.68484	664.233171	785.163659
1906	0.1445	22.8000	0.2300	1126.04534	664.544665	785.550486
1907	0.1446	22.8000	0.2300	1126.40572	664.85623	785.937338
1908	0.1447	22.8000	0.2300	1126.766	665.167865	786.324217
1909	0.1449	22.8000	0.2300	1127.12617	665.479572	786.711122
1910	0.1450	22.8000	0.2300	1127.48623	665.791349	787.098053
1911	0.1451	22.8000	0.2300	1127.84617	666.103196	787.485009
1912	0.1452	22.8000	0.2300	1128.20601	666.415114	787.871991
1913	0.1453	22.8000	0.2300	1128.56575	666.727102	788.258999
1914	0.1454	22.8000	0.2300	1128.92537	667.039161	788.646031
1915	0.1455	22.8000	0.2300	1129.28488	667.351289	789.033089
1916	0.1456	22.8000	0.2300	1129.64428	667.663488	789.420172
1917	0.1457	22.8000	0.2300	1130.00358	667.975756	789.807279
1918	0.1458	22.8000	0.2300	1130.36277	668.288094	790.194411
1919	0.1459	22.8000	0.2300	1130.72185	668.600502	790.581568
1920	0.1460	22.8000	0.2300	1131.08082	668.91298	790.968749
1921	0.1461	22.8000	0.2300	1131.43968	669.225526	791.355954
1922	0.1463	22.8000	0.2300	1131.79843	669.538143	791.743183

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1923	0.1464	22.8000		0.2300	1132.15708	669.850828	792.130436
1924	0.1465	22.8000		0.2300	1132.51561	670.163582	792.517713
1925	0.1466	22.8000		0.2300	1132.87404	670.476406	792.905014
1926	0.1467	22.8000		0.2300	1133.23237	670.789298	793.292338
1927	0.1468	22.8000		0.2300	1133.59043	671.102259	793.679685
1928	0.1469	22.8000		0.2300	1133.94816	671.415289	794.067056
1929	0.1474	22.8000		0.2300	1134.30557	671.728387	794.454449
1930	0.1478	22.8000		0.2300	1134.66267	672.041553	794.841864
1931	0.1482	22.8000		0.2300	1135.01941	672.354787	795.229301
1932	0.1487	22.8000		0.2300	1135.37577	672.668089	795.61676
1933	0.1491	22.8000		0.2300	1135.73174	672.981458	796.004239
1934	0.1496	22.8000		0.2300	1136.08732	673.294894	796.391739
1935	0.1500	22.8000		0.2300	1136.44251	673.608396	796.77926
1936	0.1504	22.8000		0.2300	1136.7973	673.921965	797.166799
1937	0.1509	22.8000		0.2300	1137.15169	674.2356	797.554358
1938	0.1513	22.8000		0.2300	1137.50569	674.5493	797.941936
1939	0.1518	22.8000		0.2300	1137.85929	674.863066	798.329531
1940	0.1522	22.8000		0.2300	1138.2125	675.176898	798.717144
1941	0.1526	22.8000		0.2300	1138.56532	675.490794	799.104775
1942	0.1531	22.8000		0.2300	1138.91775	675.804754	799.492422
1943	0.1535	22.8000		0.2300	1139.26978	676.118779	799.880086
1944	0.1539	22.8000		0.2300	1139.62143	676.432868	800.267765
1945	0.1544	22.8000		0.2300	1139.97269	676.747021	800.65546
1946	0.1548	22.8000		0.2300	1140.32357	677.061237	801.04317
1947	0.1553	22.8000		0.2300	1140.67406	677.375516	801.430894
1948	0.1557	22.8000		0.2300	1141.02416	677.689858	801.818633
1949	0.1561	22.8000		0.2300	1141.37389	678.004262	802.206384
1950	0.1566	22.8000		0.2300	1141.72323	678.318728	802.594149
1951	0.1570	22.8000		0.2300	1142.07219	678.633257	802.981927
1952	0.1574	22.8000		0.2300	1142.42078	678.947847	803.369717
1953	0.1578	22.8000		0.2300	1142.76899	679.262498	803.757518
1954	0.1583	22.8000		0.2300	1143.11682	679.577211	804.145331
1955	0.1587	22.8000		0.2300	1143.46427	679.891984	804.533155
1956	0.1591	22.8000		0.2300	1143.81136	680.206817	804.920989
1957	0.1596	22.8000		0.2300	1144.15807	680.521711	805.308834
1958	0.1600	22.8000		0.2300	1144.50441	680.836665	805.696687
1959	0.1604	22.8000		0.2300	1144.85038	681.151678	806.08455
1960	0.1609	22.8000		0.2300	1145.19598	681.466751	806.472422
1961	0.1613	22.8000		0.2300	1145.54121	681.781883	806.860302
1962	0.1617	22.8000		0.2300	1145.88608	682.097073	807.248189
1963	0.1621	22.8000		0.2300	1146.23058	682.412322	807.636085

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1964	0.1626	22.8000	0.2300	1146.57472	682.72763	808.023987
1965	0.1630	22.8000	0.2300	1146.9185	683.042995	808.411895
1966	0.1634	22.8000	0.2300	1147.26191	683.358418	808.79981
1967	0.1638	22.8000	0.2300	1147.60496	683.673898	809.187731
1968	0.1643	22.8000	0.2300	1147.94766	683.989435	809.575656
1969	0.1647	22.8000	0.2300	1148.28999	684.30503	809.963587
1970	0.1651	22.8000	0.2300	1148.63197	684.62068	810.351522
1971	0.1655	22.8000	0.2300	1148.97359	684.936387	810.739461
1972	0.1660	22.8000	0.2300	1149.31486	685.25215	811.127404
1973	0.1664	22.8000	0.2300	1149.65577	685.567969	811.51535
1974	0.1668	22.8000	0.2300	1149.99633	685.883844	811.903298
1975	0.1672	22.8000	0.2300	1150.33654	686.199773	812.291249
1976	0.1677	22.8000	0.2300	1150.6764	686.515758	812.679202
1977	0.1681	22.8000	0.2300	1151.0159	686.831797	813.067157
1978	0.1685	22.8000	0.2300	1151.35506	687.14789	813.455113
1979	0.1689	22.8000	0.2300	1151.69388	687.464038	813.843069
1980	0.1693	22.8000	0.2300	1152.03234	687.780239	814.231026
1981	0.1698	22.8000	0.2300	1152.37046	688.096495	814.618983
1982	0.1702	22.8000	0.2300	1152.70824	688.412803	815.006939
1983	0.1706	22.8000	0.2300	1153.04567	688.729165	815.394894
1984	0.1710	22.8000	0.2300	1153.3828	689.045579	815.782849
1985	0.1714	22.8000	0.2300	1153.7198	689.362046	816.170801
1986	0.1717	22.8000	0.2300	1154.05668	689.678565	816.558752
1987	0.1718	22.8000	0.2300	1154.39343	689.995137	816.946701
1988	0.1718	22.8000	0.2300	1154.73005	690.311761	817.334648
1989	0.1719	22.8000	0.2300	1155.06657	690.628437	817.722593
1990	0.1719	22.8000	0.2300	1155.40301	690.945166	818.110535
1991	0.1720	22.8000	0.2300	1155.73939	691.261946	818.498475
1992	0.1720	22.8000	0.2300	1156.07571	691.578778	818.886413
1993	0.1721	22.8000	0.2300	1156.41198	691.895661	819.274348
1994	0.1721	22.8000	0.2300	1156.74819	692.212597	819.66228
1995	0.1722	22.8000	0.2300	1157.08435	692.529584	820.05021
1996	0.1722	22.8000	0.2300	1157.42047	692.846623	820.438137
1997	0.1723	22.8000	0.2300	1157.75653	693.163714	820.826062
1998	0.1723	22.8000	0.2300	1158.09254	693.480855	821.213983
1999	0.1724	22.8000	0.2300	1158.42851	693.798049	821.601902
2000	0.1724	22.8000	0.2300	1158.76442	694.115293	821.989817
2001	0.1725	22.8000	0.2300	1159.10029	694.432589	822.37773
2002	0.1725	22.8000	0.2300	1159.43611	694.749937	822.765639
2003	0.1726	22.8000	0.2300	1159.77188	695.067335	823.153546
2004	0.1726	22.8000	0.2300	1160.1076	695.384785	823.541449

Attachment 1

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
2005	0.1727	22.8000	0.2300	1160.44327	695.702285	823.929349
2006	0.1727	22.8000	0.2300	1160.7789	696.019837	824.317246
2007	0.1728	22.8000	0.2300	1161.11447	696.33744	824.705139
2008	0.1728	22.8000	0.2300	1161.45	696.655093	825.093029
2009	0.1729	22.8000	0.2300	1161.78548	696.972798	825.480916
2010	0.1729	22.8000	0.2300	1162.12091	697.290553	825.868799
2011	0.1730	22.8000	0.2300	1162.45629	697.608358	826.256678
2012	0.1730	22.8000	0.2300	1162.79163	697.926215	826.644554
2013	0.1731	22.8000	0.2300	1163.12691	698.244122	827.032426
2014	0.1731	22.8000	0.2300	1163.46215	698.562079	827.420295
2015	0.1732	22.8000	0.2300	1163.79734	698.880087	827.808159
2016	0.1732	22.8000	0.2300	1164.13248	699.198146	828.19602
2017	0.1733	22.8000	0.2300	1164.46758	699.516255	828.583877
2018	0.1733	22.8000	0.2300	1164.80262	699.834414	828.97173
2019	0.1734	22.8000	0.2300	1165.13762	700.152623	829.359579
2020	0.1734	22.8000	0.2300	1165.47257	700.470882	829.747424
2021	0.1735	22.8000	0.2300	1165.80747	700.789192	830.135265
2022	0.1735	22.8000	0.2300	1166.14232	701.107552	830.523101
2023	0.1736	22.8000	0.2300	1166.47713	701.425961	830.910934

Attachment 1

	AI	AJ	AK	AL	AM
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12					
13					
14					
15					
16					
17					
18					
19	$x=(F24-32)^*$ 5/9+273.15	$x=(G24-32)^*$ 5/9+273.15			
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
23	322.038889	322.038889			0
24	322.038889	322.038889			0.005
25	322.050733	322.038889			0.01
26	322.074008	322.039022			0.015
27	322.108317	322.039414			0.02
28	322.153281	322.040186			0.025
29	322.208537	322.041454			0.03
30	322.273739	322.043327			0.035
31	322.348553	322.045912			0.04
32	322.432661	322.049308			0.045
33	322.525758	322.053611			0.05
34	322.627552	322.058913			0.055
35	322.737762	322.065302			0.06
36	322.856119	322.072862			0.065

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
37	322.982366	322.081673			0.07
38	323.116254	322.09181			0.075
39	323.257548	322.103349			0.08
40	323.406017	322.116358			0.085
41	323.561445	322.130905			0.09
42	323.72362	322.147054			0.095
43	323.89234	322.164866			0.1
44	324.067412	322.1844			0.105
45	324.248649	322.205712			0.11
46	324.435871	322.228855			0.115
47	324.628906	322.253882			0.12
48	324.827589	322.280842			0.125
49	325.031759	322.30978			0.13
50	325.241264	322.340744			0.135
51	325.455954	322.373775			0.14
52	325.675689	322.408916			0.145
53	325.90033	322.446205			0.15
54	326.129746	322.485681			0.155
55	326.36381	322.527379			0.16
56	326.602399	322.571335			0.165
57	326.845394	322.617581			0.17
58	327.092683	322.666149			0.175
59	327.344155	322.71707			0.18
60	327.599705	322.770373			0.185
61	327.859229	322.826085			0.19
62	328.122629	322.884232			0.195
63	328.389811	322.944841			0.2
64	328.660682	323.007936			0.205
65	328.935153	323.073539			0.21
66	329.213139	323.141674			0.215
67	329.494557	323.21236			0.22
68	329.779326	323.285619			0.225
69	330.06737	323.361469			0.23
70	330.358613	323.439929			0.235
71	330.652984	323.521017			0.24
72	330.950411	323.604749			0.245
73	331.250828	323.691141			0.25
74	331.554169	323.780209			0.255
75	331.86037	323.871966			0.26
76	332.169371	323.966428			0.265
77	332.481111	324.063605			0.27

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
78	332.795533	324.163512			0.275
79	333.112581	324.26616			0.28
80	333.432201	324.37156			0.285
81	333.754341	324.479723			0.29
82	334.078949	324.590658			0.295
83	334.405977	324.704375			0.3
84	334.735376	324.820884			0.305
85	335.067101	324.940192			0.31
86	335.401106	325.062307			0.315
87	335.737347	325.187237			0.32
88	336.075782	325.314988			0.325
89	336.41637	325.445568			0.33
90	336.75907	325.578983			0.335
91	337.103844	325.715237			0.34
92	337.450654	325.854336			0.345
93	337.799464	325.996285			0.35
94	338.150236	326.141089			0.355
95	338.502938	326.288751			0.36
96	338.857534	326.439276			0.365
97	339.213992	326.592666			0.37
98	339.572279	326.748924			0.375
99	339.932366	326.908053			0.38
100	340.294221	327.070056			0.385
101	340.657814	327.234935			0.39
102	341.023118	327.40269			0.395
103	341.390103	327.573325			0.4
104	341.758743	327.746838			0.405
105	342.129011	327.923232			0.41
106	342.500881	328.102507			0.415
107	342.874328	328.284663			0.42
108	343.249326	328.4697			0.425
109	343.625852	328.657618			0.43
110	344.003882	328.848416			0.435
111	344.383394	329.042094			0.44
112	344.764365	329.23865			0.445
113	345.146772	329.438082			0.45
114	345.530595	329.640391			0.455
115	345.915813	329.845573			0.46
116	346.302406	330.053626			0.465
117	346.690353	330.264549			0.47
118	347.079635	330.478339			0.475

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
119	347.470233	330.694994			0.48
120	347.862128	330.914509			0.485
121	348.255303	331.136884			0.49
122	348.649739	331.362113			0.495
123	349.04542	331.590193			0.5
124	349.442327	331.821121			0.505
125	349.840446	332.054894			0.51
126	350.239758	332.291506			0.515
127	350.640248	332.530953			0.52
128	351.041902	332.773232			0.525
129	351.444702	333.018336			0.53
130	351.848636	333.266263			0.535
131	352.253687	333.517005			0.54
132	352.659841	333.770559			0.545
133	353.067085	334.026919			0.55
134	353.475405	334.286079			0.555
135	353.884787	334.548034			0.56
136	354.295218	334.812777			0.565
137	354.706685	335.080303			0.57
138	355.119176	335.350605			0.575
139	355.532677	335.623677			0.58
140	355.947178	335.899512			0.585
141	356.362665	336.178104			0.59
142	356.779127	336.459446			0.595
143	357.196553	336.74353			0.6
144	357.614931	337.03035			0.605
145	358.034251	337.319898			0.61
146	358.454501	337.612167			0.615
147	358.875671	337.907148			0.62
148	359.29775	338.204834			0.625
149	359.720728	338.505218			0.63
150	360.144595	338.808291			0.635
151	360.569341	339.114044			0.64
152	360.994957	339.422469			0.645
153	361.421433	339.733559			0.65
154	361.848759	340.047303			0.655
155	362.276926	340.363693			0.66
156	362.705925	340.682721			0.665
157	363.135748	341.004377			0.67
158	363.566386	341.328652			0.675
159	363.99783	341.655536			0.68

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
160	364.430071	341.98502			0.685
161	364.863102	342.317094			0.69
162	365.296914	342.651749			0.695
163	365.7315	342.988974			0.7
164	366.16685	343.328759			0.705
165	366.602959	343.671095			0.71
166	367.039818	344.01597			0.715
167	367.477419	344.363375			0.72
168	367.915755	344.713299			0.725
169	368.35482	345.065731			0.73
170	368.794606	345.42066			0.735
171	369.235106	345.778076			0.74
172	369.676315	346.137966			0.745
173	370.118225	346.500321			0.75
174	370.560831	346.865129			0.755
175	371.004127	347.232377			0.76
176	371.448105	347.602056			0.765
177	371.89276	347.974153			0.77
178	372.338087	348.348656			0.775
179	372.784078	348.725553			0.78
180	373.230728	349.104834			0.785
181	373.678032	349.486484			0.79
182	374.125984	349.870494			0.795
183	374.574577	350.256849			0.8
184	375.023807	350.645537			0.805
185	375.473669	351.036547			0.81
186	375.924155	351.429865			0.815
187	376.375262	351.825479			0.82
188	376.826983	352.223376			0.825
189	377.279314	352.623543			0.83
190	377.732249	353.025966			0.835
191	378.185784	353.430634			0.84
192	378.639912	353.837532			0.845
193	379.09463	354.246648			0.85
194	379.549932	354.657968			0.855
195	380.005813	355.071478			0.86
196	380.462268	355.487164			0.865
197	380.919292	355.905014			0.87
198	381.376881	356.325014			0.875
199	381.83503	356.747148			0.88
200	382.293734	357.171405			0.885

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
201	382.752989	357.597768			0.89
202	383.21279	358.026225			0.895
203	383.673131	358.456761			0.9
204	384.13401	358.889362			0.905
205	384.595421	359.324013			0.91
206	385.05736	359.7607			0.915
207	385.519822	360.199409			0.92
208	385.982804	360.640124			0.925
209	386.446299	361.082831			0.93
210	386.910306	361.527515			0.935
211	387.374818	361.974162			0.94
212	387.839832	362.422756			0.945
213	388.305343	362.873283			0.95
214	388.771348	363.325727			0.955
215	389.237842	363.780073			0.96
216	389.70482	364.236306			0.965
217	390.17228	364.694411			0.97
218	390.640216	365.154373			0.975
219	391.108624	365.616175			0.98
220	391.577501	366.079803			0.985
221	392.046843	366.545241			0.99
222	392.516644	367.012473			0.995
223	392.986902	367.481484			1
224	393.457612	367.952258			1.005
225	393.92877	368.424779			1.01
226	394.400373	368.899032			1.015
227	394.872416	369.375001			1.02
228	395.344895	369.852669			1.025
229	395.817806	370.332021			1.03
230	396.291146	370.813042			1.035
231	396.76491	371.295713			1.04
232	397.239094	371.780021			1.045
233	397.713695	372.265948			1.05
234	398.188709	372.753478			1.055
235	398.664131	373.242596			1.06
236	399.139958	373.733285			1.065
237	399.616186	374.225528			1.07
238	400.092811	374.71931			1.075
239	400.569842	375.214614			1.08
240	401.047329	375.711424			1.085
241	401.525262	376.209726			1.09

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
242	402.003635	376.709503			1.095
243	402.482439	377.210741			1.1
244	402.961667	377.713424			1.105
245	403.441311	378.217538			1.11
246	403.921364	378.723066			1.115
247	404.401821	379.229992			1.12
248	404.882673	379.738302			1.125
249	405.363915	380.24798			1.13
250	405.845541	380.759009			1.135
251	406.327544	381.271373			1.14
252	406.809919	381.785057			1.145
253	407.292659	382.300045			1.15
254	407.775759	382.81632			1.155
255	408.259215	383.333867			1.16
256	408.743019	383.852668			1.165
257	409.227167	384.372709			1.17
258	409.711654	384.893972			1.175
259	410.196474	385.416442			1.18
260	410.681623	385.940101			1.185
261	411.167095	386.464935			1.19
262	411.652886	386.990926			1.195
263	412.138991	387.518058			1.2
264	412.625405	388.046314			1.205
265	413.112123	388.575679			1.21
266	413.599141	389.106136			1.215
267	414.086453	389.637669			1.22
268	414.574056	390.170261			1.225
269	415.061944	390.703896			1.23
270	415.550114	391.238557			1.235
271	416.03856	391.774229			1.24
272	416.527278	392.310895			1.245
273	417.016265	392.848538			1.25
274	417.505514	393.387143			1.255
275	417.995022	393.926693			1.26
276	418.484785	394.467171			1.265
277	418.974798	395.008563			1.27
278	419.465056	395.550851			1.275
279	419.955556	396.094019			1.28
280	420.446293	396.638052			1.285
281	420.937262	397.182932			1.29
282	421.42846	397.728645			1.295

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
283	421.919881	398.275175			1.3
284	422.411522	398.822504			1.305
285	422.903379	399.370618			1.31
286	423.395446	399.919501			1.315
287	423.887721	400.469136			1.32
288	424.380197	401.019509			1.325
289	424.872872	401.570602			1.33
290	425.36574	402.122402			1.335
291	425.858798	402.674891			1.34
292	426.352041	403.228055			1.345
293	426.845466	403.781878			1.35
294	427.339066	404.336346			1.355
295	427.832839	404.891441			1.36
296	428.32678	405.44715			1.365
297	428.820885	406.003456			1.37
298	429.315149	406.560346			1.375
299	429.809569	407.117803			1.38
300	430.304139	407.675813			1.385
301	430.798856	408.23436			1.39
302	431.293716	408.793431			1.395
303	431.788713	409.35301			1.4
304	432.283845	409.913083			1.405
305	432.779106	410.473635			1.41
306	433.274492	411.034651			1.415
307	433.769999	411.596117			1.42
308	434.265623	412.158019			1.425
309	434.76136	412.720342			1.43
310	435.257205	413.283073			1.435
311	435.753154	413.846196			1.44
312	436.249203	414.409699			1.445
313	436.745347	414.973567			1.45
314	437.241583	415.537786			1.455
315	437.737906	416.102342			1.46
316	438.234312	416.667223			1.465
317	438.730797	417.232414			1.47
318	439.227356	417.797902			1.475
319	439.723986	418.363674			1.48
320	440.220682	418.929716			1.485
321	440.71744	419.496016			1.49
322	441.214256	420.062559			1.495
323	441.711125	420.629334			1.5

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
324	442.208044	421.196327			1.505
325	442.705009	421.763525			1.51
326	443.202015	422.330917			1.515
327	443.699059	422.898489			1.52
328	444.196136	423.466229			1.525
329	444.693241	424.034125			1.53
330	445.190372	424.602164			1.535
331	445.687524	425.170334			1.54
332	446.184694	425.738624			1.545
333	446.681876	426.307021			1.55
334	447.179067	426.875513			1.555
335	447.676263	427.444409			1.56
336	448.173461	428.012739			1.565
337	448.670656	428.581449			1.57
338	449.167844	429.150209			1.575
339	449.665021	429.719007			1.58
340	450.162184	430.287832			1.585
341	450.659329	430.856674			1.59
342	451.156452	431.425521			1.595
343	451.653548	431.994363			1.6
344	452.150615	432.563189			1.605
345	452.647649	433.131988			1.61
346	453.144645	433.70075			1.615
347	453.6416	434.269466			1.62
348	454.138511	434.838124			1.625
349	454.635373	435.406714			1.63
350	455.132184	435.975227			1.635
351	455.628938	436.543653			1.64
352	456.125634	437.111982			1.645
353	456.622267	437.680205			1.65
354	457.118833	438.248312			1.655
355	457.61533	438.816294			1.66
356	458.111754	439.384141			1.665
357	458.6081	439.951844			1.67
358	459.104367	440.519396			1.675
359	459.60055	441.086785			1.68
360	460.096646	441.654005			1.685
361	460.592652	442.221046			1.69
362	461.088565	442.7879			1.695
363	461.58438	443.354558			1.7
364	462.080096	443.921012			1.705

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
365	462.575708	444.487255			1.71
366	463.071214	445.053277			1.715
367	463.56661	445.619072			1.72
368	464.061894	446.184631			1.725
369	464.557061	446.749946			1.73
370	465.05211	447.315011			1.735
371	465.547037	447.879817			1.74
372	466.041839	448.444358			1.745
373	466.536513	449.008627			1.75
374	467.031057	449.572615			1.755
375	467.525466	450.136317			1.76
376	468.01974	450.699726			1.765
377	468.513874	451.262834			1.77
378	469.007866	451.825635			1.775
379	469.501714	452.388124			1.78
380	469.995413	452.950292			1.785
381	470.488963	453.512135			1.79
382	470.98236	454.073646			1.795
383	471.475602	454.634819			1.8
384	471.968685	455.195648			1.805
385	472.461608	455.756128			1.81
386	472.954369	456.316252			1.815
387	473.446963	456.876015			1.82
388	473.93939	457.435413			1.825
389	474.431647	457.994439			1.83
390	474.923732	458.553088			1.835
391	475.415641	459.111355			1.84
392	475.907373	459.669236			1.845
393	476.398926	460.226725			1.85
394	476.890298	460.783817			1.855
395	477.381486	461.340509			1.86
396	477.872488	461.896795			1.865
397	478.363302	462.452671			1.87
398	478.853927	463.008132			1.875
399	479.344359	463.563175			1.88
400	479.834598	464.117796			1.885
401	480.32464	464.671989			1.89
402	480.814486	465.225752			1.895
403	481.304131	465.779081			1.9
404	481.793575	466.331971			1.905
405	482.282817	466.88442			1.91

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
406	482.771853	467.436424			1.915
407	483.260682	467.987979			1.92
408	483.749304	468.539082			1.925
409	484.237715	469.08973			1.93
410	484.725916	469.63992			1.935
411	485.213903	470.189648			1.94
412	485.701675	470.738913			1.945
413	486.189232	471.28771			1.95
414	486.676571	471.836038			1.955
415	487.163691	472.383894			1.96
416	487.650591	472.931274			1.965
417	488.137269	473.478178			1.97
418	488.623725	474.024602			1.975
419	489.109956	474.570544			1.98
420	489.595962	475.116002			1.985
421	490.081741	475.660973			1.99
422	490.567293	476.205457			1.995
423	491.052615	476.74945			2
424	491.537708	477.292952			2.005
425	492.02257	477.83596			2.01
426	492.507199	478.378473			2.015
427	492.991596	478.920489			2.02
428	493.475758	479.462006			2.025
429	493.959686	480.003023			2.03
430	494.443377	480.54354			2.035
431	494.926832	481.083554			2.04
432	495.41005	481.623064			2.045
433	495.893029	482.16207			2.05
434	496.375769	482.700569			2.055
435	496.85827	483.238562			2.06
436	497.34053	483.776048			2.065
437	497.822548	484.313025			2.07
438	498.304325	484.849492			2.075
439	498.78586	485.38545			2.08
440	499.267151	485.920897			2.085
441	499.748199	486.455834			2.09
442	500.229003	486.990258			2.095
443	500.709563	487.524171			2.1
444	501.189877	488.057572			2.105
445	501.669947	488.590459			2.11
446	502.14977	489.122835			2.115

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
447	502.629347	489.654697			2.12
448	503.108678	490.186046			2.125
449	503.587761	490.716882			2.13
450	504.066598	491.247205			2.135
451	504.545187	491.777015			2.14
452	505.023529	492.306312			2.145
453	505.501622	492.835097			2.15
454	505.979468	493.363369			2.155
455	506.457066	493.891129			2.16
456	506.934415	494.418377			2.165
457	507.411516	494.945114			2.17
458	507.888368	495.47134			2.175
459	508.364971	495.997056			2.18
460	508.841326	496.522262			2.185
461	509.317433	497.046958			2.19
462	509.793291	497.571146			2.195
463	510.2689	498.094826			2.2
464	510.74426	498.617999			2.205
465	511.219373	499.140666			2.21
466	511.694236	499.662827			2.215
467	512.168852	500.184483			2.22
468	512.643219	500.705636			2.225
469	513.117339	501.226286			2.23
470	513.59121	501.746434			2.235
471	514.064834	502.266081			2.24
472	514.538211	502.785228			2.245
473	515.011341	503.303877			2.25
474	515.484223	503.822029			2.255
475	515.956859	504.339684			2.26
476	516.429249	504.856844			2.265
477	516.901393	505.37351			2.27
478	517.373291	505.889684			2.275
479	517.844944	506.405366			2.28
480	518.316351	506.920559			2.285
481	518.787515	507.435263			2.29
482	519.258433	507.949479			2.295
483	519.729109	508.463211			2.3
484	520.19954	508.976457			2.305
485	520.669729	509.489222			2.31
486	521.139675	510.001504			2.315
487	521.609379	510.513307			2.32

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
488	522.078842	511.024632			2.325
489	522.548064	511.535481			2.33
490	523.017045	512.045854			2.335
491	523.485786	512.555754			2.34
492	523.954287	513.065182			2.345
493	524.42255	513.57414			2.35
494	524.890574	514.08263			2.355
495	525.35836	514.590654			2.36
496	525.825909	515.098212			2.365
497	526.293222	515.605307			2.37
498	526.760298	516.111941			2.375
499	527.227139	516.618115			2.38
500	527.693745	517.123831			2.385
501	528.160116	517.629092			2.39
502	528.626254	518.133898			2.395
503	529.09216	518.638251			2.4
504	529.557833	519.142155			2.405
505	530.023274	519.645609			2.41
506	530.488484	520.148617			2.415
507	530.953464	520.65118			2.42
508	531.418215	521.153301			2.425
509	531.882737	521.65498			2.43
510	532.34703	522.15622			2.435
511	532.811097	522.657022			2.44
512	533.274936	523.15739			2.445
513	533.738549	523.657324			2.45
514	534.201938	524.156827			2.455
515	534.665101	524.655901			2.46
516	535.128041	525.154547			2.465
517	535.590758	525.652768			2.47
518	536.053253	526.150565			2.475
519	536.515526	526.647941			2.48
520	536.977578	527.144898			2.485
521	537.43941	527.641437			2.49
522	537.901023	528.137561			2.495
523	538.362418	528.633271			2.5
524	538.823595	529.12857			2.505
525	539.284555	529.623459			2.51
526	539.745299	530.117941			2.515
527	540.205828	530.612018			2.52
528	540.666142	531.105691			2.525

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
529	541.126242	531.598963			2.53
530	541.58613	532.091835			2.535
531	542.045805	532.584311			2.54
532	542.50527	533.07639			2.545
533	542.964523	533.568077			2.55
534	543.423567	534.059373			2.555
535	543.882402	534.550279			2.56
536	544.34103	535.040798			2.565
537	544.799449	535.530931			2.57
538	545.257663	536.020682			2.575
539	545.715671	536.510051			2.58
540	546.173474	536.999041			2.585
541	546.631073	537.487654			2.59
542	547.088468	537.975892			2.595
543	547.545662	538.463757			2.6
544	548.002654	538.95125			2.605
545	548.459445	539.438374			2.61
546	548.916036	539.925131			2.615
547	549.372429	540.411523			2.62
548	549.828623	540.897551			2.625
549	550.284619	541.383218			2.63
550	550.740419	541.868525			2.635
551	551.196023	542.353476			2.64
552	551.651432	542.83807			2.645
553	552.106647	543.322312			2.65
554	552.561669	543.806201			2.655
555	553.016498	544.289741			2.66
556	553.471135	544.772933			2.665
557	553.925581	545.25578			2.67
558	554.379838	545.738282			2.675
559	554.833904	546.220443			2.68
560	555.287783	546.702263			2.685
561	555.741473	547.183745			2.69
562	556.194977	547.664891			2.695
563	556.648295	548.145702			2.7
564	557.101427	548.626181			2.705
565	557.554375	549.106329			2.71
566	558.007139	549.586148			2.715
567	558.45972	550.06564			2.72
568	558.912119	550.544806			2.725
569	559.364336	551.023649			2.73

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
570	559.816373	551.502171			2.735
571	560.26823	551.980373			2.74
572	560.719908	552.458256			2.745
573	561.171408	552.935824			2.75
574	561.62273	553.413077			2.755
575	562.073876	553.890017			2.76
576	562.524845	554.366646			2.765
577	562.97564	554.842966			2.77
578	563.42626	555.318979			2.775
579	563.876706	555.794686			2.78
580	564.326979	556.270088			2.785
581	564.777081	556.745189			2.79
582	565.22701	557.219988			2.795
583	565.676769	557.694489			2.8
584	566.126358	558.168693			2.805
585	566.575778	558.642601			2.81
586	567.02503	559.116215			2.815
587	567.474113	559.589536			2.82
588	567.92303	560.062567			2.825
589	568.37178	560.535309			2.83
590	568.820365	561.007763			2.835
591	569.268785	561.479932			2.84
592	569.71704	561.951816			2.845
593	570.165133	562.423418			2.85
594	570.613062	562.894739			2.855
595	571.06083	563.36578			2.86
596	571.508436	563.836543			2.865
597	571.955881	564.30703			2.87
598	572.403166	564.777241			2.875
599	572.850293	565.24718			2.88
600	573.29726	565.716846			2.885
601	573.74407	566.186243			2.89
602	574.190722	566.65537			2.895
603	574.637218	567.12423			2.9
604	575.083558	567.592824			2.905
605	575.529742	568.061153			2.91
606	575.975772	568.52922			2.915
607	576.421648	568.997025			2.92
608	576.867371	569.46457			2.925
609	577.312941	569.931856			2.93
610	577.758359	570.398884			2.935

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
611	578.203625	570.865657			2.94
612	578.648741	571.332175			2.945
613	579.093707	571.798441			2.95
614	579.538523	572.264454			2.955
615	579.983191	572.730217			2.96
616	580.42771	573.19573			2.965
617	580.872082	573.660996			2.97
618	581.316306	574.126016			2.975
619	581.760385	574.59079			2.98
620	582.204317	575.055321			2.985
621	582.648104	575.519609			2.99
622	583.091747	575.983656			2.995
623	583.535245	576.447463			3
624	583.9786	576.911031			3.005
625	584.421812	577.374362			3.01
626	584.864882	577.837456			3.015
627	585.307811	578.300316			3.02
628	585.750598	578.762942			3.025
629	586.193244	579.225336			3.03
630	586.635751	579.687498			3.035
631	587.078118	580.14943			3.04
632	587.520347	580.611133			3.045
633	587.962437	581.072609			3.05
634	588.404389	581.533858			3.055
635	588.846204	581.994881			3.06
636	589.287882	582.455681			3.065
637	589.729424	582.916257			3.07
638	590.170831	583.376611			3.075
639	590.612102	583.836745			3.08
640	591.053239	584.296659			3.085
641	591.494242	584.756354			3.09
642	591.935112	585.215831			3.095
643	592.375848	585.675093			3.1
644	592.816452	586.134139			3.105
645	593.256924	586.592971			3.11
646	593.697264	587.051589			3.115
647	594.137474	587.509996			3.12
648	594.577553	587.968191			3.125
649	595.017502	588.426177			3.13
650	595.457322	588.883953			3.135
651	595.897012	589.341521			3.14

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
652	596.336574	589.798883			3.145
653	596.776009	590.256038			3.15
654	597.215315	590.712989			3.155
655	597.654495	591.169735			3.16
656	598.093548	591.626279			3.165
657	598.532474	592.082621			3.17
658	598.971276	592.538761			3.175
659	599.409952	592.994702			3.18
660	599.848503	593.450443			3.185
661	600.28693	593.905986			3.19
662	600.725233	594.361332			3.195
663	601.163412	594.816482			3.2
664	601.601469	595.271436			3.205
665	602.039403	595.726196			3.21
666	602.477216	596.180762			3.215
667	602.914906	596.635136			3.22
668	603.352476	597.089318			3.225
669	603.789924	597.543309			3.23
670	604.227252	597.99711			3.235
671	604.664461	598.450721			3.24
672	605.10155	598.904145			3.245
673	605.53852	599.357381			3.25
674	605.975371	599.81043			3.255
675	606.412104	600.263294			3.26
676	606.848719	600.715973			3.265
677	607.285217	601.168468			3.27
678	607.721597	601.62078			3.275
679	608.157861	602.072909			3.28
680	608.594009	602.524857			3.285
681	609.030041	602.976624			3.29
682	609.465958	603.428211			3.295
683	609.90176	603.879618			3.3
684	610.337447	604.330848			3.305
685	610.773019	604.781899			3.31
686	611.208478	605.232774			3.315
687	611.643823	605.683473			3.32
688	612.079056	606.133997			3.325
689	612.514175	606.584346			3.33
690	612.949182	607.034521			3.335
691	613.384077	607.484523			3.34
692	613.818861	607.934352			3.345

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
693	614.253533	608.384011			3.35
694	614.688094	608.833498			3.355
695	615.122545	609.282815			3.36
696	615.556885	609.731963			3.365
697	615.991116	610.180942			3.37
698	616.425237	610.629753			3.375
699	616.859249	611.078396			3.38
700	617.293153	611.526873			3.385
701	617.726948	611.975185			3.39
702	618.160634	612.423331			3.395
703	618.594213	612.871312			3.4
704	619.027685	613.319129			3.405
705	619.46105	613.766784			3.41
706	619.894307	614.214276			3.415
707	620.327459	614.661605			3.42
708	620.760504	615.108774			3.425
709	621.193444	615.555782			3.43
710	621.626278	616.00263			3.435
711	622.059007	616.449319			3.44
712	622.491631	616.895849			3.445
713	622.924151	617.342221			3.45
714	623.356566	617.788436			3.455
715	623.788878	618.234494			3.46
716	624.221086	618.680396			3.465
717	624.653192	619.126142			3.47
718	625.085194	619.571734			3.475
719	625.517093	620.017171			3.48
720	625.948891	620.462454			3.485
721	626.380586	620.907584			3.49
722	626.81218	621.352562			3.495
723	627.243672	621.797387			3.5
724	627.675063	622.242061			3.505
725	628.106354	622.686585			3.51
726	628.537544	623.130958			3.515
727	628.968633	623.575181			3.52
728	629.399623	624.019256			3.525
729	629.830514	624.463182			3.53
730	630.261304	624.90696			3.535
731	630.691996	625.35059			3.54
732	631.122589	625.794074			3.545
733	631.553084	626.237411			3.55

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
734	631.983481	626.680603			3.555
735	632.413779	627.123649			3.56
736	632.84398	627.566551			3.565
737	633.274085	628.009308			3.57
738	633.704093	628.451922			3.575
739	634.134005	628.894393			3.58
740	634.563821	629.336721			3.585
741	634.993542	629.778908			3.59
742	635.423168	630.220953			3.595
743	635.8527	630.662858			3.6
744	636.282137	631.104623			3.605
745	636.71148	631.546248			3.61
746	637.140729	631.987734			3.615
747	637.569885	632.429081			3.62
748	637.998947	632.870291			3.625
749	638.427917	633.311364			3.63
750	638.856794	633.752299			3.635
751	639.285578	634.193098			3.64
752	639.714271	634.633762			3.645
753	640.142871	635.07429			3.65
754	640.571385	635.514684			3.655
755	640.999819	635.954944			3.66
756	641.42817	636.395071			3.665
757	641.856438	636.835068			3.67
758	642.28462	637.274934			3.675
759	642.712716	637.714671			3.68
760	643.140726	638.154279			3.685
761	643.568648	638.593758			3.69
762	643.996484	639.03311			3.695
763	644.424233	639.472335			3.7
764	644.851895	639.911432			3.705
765	645.27947	640.350403			3.71
766	645.706959	640.789248			3.715
767	646.134361	641.227968			3.72
768	646.561676	641.666562			3.725
769	646.988906	642.105031			3.73
770	647.416049	642.543376			3.735
771	647.843107	642.981596			3.74
772	648.270079	643.419693			3.745
773	648.696966	643.857667			3.75
774	649.123768	644.295517			3.755

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
775	649.550485	644.733244			3.76
776	649.977116	645.17085			3.765
777	650.403664	645.608333			3.77
778	650.830127	646.045695			3.775
779	651.256505	646.482936			3.78
780	651.6828	646.920056			3.785
781	652.109011	647.357055			3.79
782	652.535138	647.793934			3.795
783	652.961182	648.230694			3.8
784	653.387142	648.667334			3.805
785	653.81302	649.103855			3.81
786	654.238815	649.540257			3.815
787	654.664527	649.976541			3.82
788	655.090156	650.412707			3.825
789	655.515704	650.848756			3.83
790	655.941169	651.284687			3.835
791	656.366553	651.720501			3.84
792	656.791854	652.156199			3.845
793	657.217075	652.591781			3.85
794	657.642214	653.027246			3.855
795	658.067271	653.462597			3.86
796	658.492248	653.897832			3.865
797	658.917145	654.332952			3.87
798	659.34196	654.767958			3.875
799	659.766696	655.202849			3.88
800	660.191351	655.637627			3.885
801	660.615926	656.072291			3.89
802	661.040421	656.506843			3.895
803	661.464837	656.941281			3.9
804	661.889173	657.375607			3.905
805	662.31343	657.809821			3.91
806	662.737608	658.243923			3.915
807	663.161707	658.677913			3.92
808	663.585727	659.111793			3.925
809	664.009669	659.545561			3.93
810	664.433533	659.979219			3.935
811	664.857318	660.412767			3.94
812	665.281025	660.846206			3.945
813	665.704654	661.279534			3.95
814	666.128206	661.712754			3.955
815	666.55168	662.145864			3.96

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
816	666.975077	662.578866			3.965
817	667.398397	663.01176			3.97
818	667.82164	663.444545			3.975
819	668.244806	663.877223			3.98
820	668.667896	664.309794			3.985
821	669.090909	664.742258			3.99
822	669.513846	665.174615			3.995
823	669.936706	665.606866			4
824	670.359491	666.03901			4.005
825	670.7822	666.471049			4.01
826	671.204834	666.902983			4.015
827	671.627392	667.334811			4.02
828	672.049874	667.766534			4.025
829	672.472282	668.198152			4.03
830	672.894615	668.629667			4.035
831	673.316873	669.061077			4.04
832	673.739056	669.492384			4.045
833	674.161165	669.923587			4.05
834	674.583199	670.354687			4.055
835	675.00516	670.785684			4.06
836	675.427046	671.216579			4.065
837	675.848859	671.647371			4.07
838	676.270598	672.078062			4.075
839	676.692264	672.508651			4.08
840	677.113856	672.939138			4.085
841	677.535375	673.369524			4.09
842	677.956821	673.79981			4.095
843	678.378195	674.229994			4.1
844	678.799495	674.660079			4.105
845	679.220723	675.090063			4.11
846	679.641879	675.519948			4.115
847	680.062962	675.949733			4.12
848	680.483974	676.379419			4.125
849	680.904913	676.809006			4.13
850	681.325781	677.238495			4.135
851	681.746577	677.667885			4.14
852	682.167301	678.097176			4.145
853	682.587955	678.52637			4.15
854	683.008537	678.955467			4.155
855	683.429048	679.384466			4.16
856	683.849488	679.813368			4.165

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
857	684.269857	680.242173			4.17
858	684.690156	680.670881			4.175
859	685.110384	681.099494			4.18
860	685.530542	681.52801			4.185
861	685.95063	681.95643			4.19
862	686.370648	682.384755			4.195
863	686.790596	682.812985			4.2
864	687.210475	683.241119			4.205
865	687.630283	683.669159			4.21
866	688.050023	684.097104			4.215
867	688.469693	684.524955			4.22
868	688.889293	684.952712			4.225
869	689.308825	685.380375			4.23
870	689.728288	685.807944			4.235
871	690.147682	686.23542			4.24
872	690.567008	686.662803			4.245
873	690.986265	687.090093			4.25
874	691.405454	687.517291			4.255
875	691.824574	687.944396			4.26
876	692.243627	688.371409			4.265
877	692.662612	688.798331			4.27
878	693.081528	689.22516			4.275
879	693.500378	689.651898			4.28
880	693.919159	690.078545			4.285
881	694.337874	690.505101			4.29
882	694.756521	690.931566			4.295
883	695.175101	691.357941			4.3
884	695.593613	691.784226			4.305
885	696.01206	692.21042			4.31
886	696.430439	692.636525			4.315
887	696.848752	693.06254			4.32
888	697.266998	693.488465			4.325
889	697.685178	693.914302			4.33
890	698.103291	694.34005			4.335
891	698.521339	694.765708			4.34
892	698.939321	695.191279			4.345
893	699.357237	695.616761			4.35
894	699.775087	696.042155			4.355
895	700.192871	696.467461			4.36
896	700.61059	696.89268			4.365
897	701.028244	697.317811			4.37

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
898	701.445833	697.742855			4.375
899	701.863356	698.167813			4.38
900	702.280814	698.592683			4.385
901	702.698208	699.017467			4.39
902	703.115537	699.442164			4.395
903	703.532801	699.866775			4.4
904	703.950001	700.291301			4.405
905	704.367137	700.71574			4.41
906	704.784208	701.140095			4.415
907	705.201215	701.564363			4.42
908	705.618158	701.988547			4.425
909	706.035038	702.412646			4.43
910	706.451853	702.83666			4.435
911	706.868605	703.26059			4.44
912	707.285294	703.684435			4.445
913	707.701919	704.108197			4.45
914	708.11848	704.531874			4.455
915	708.534979	704.955468			4.46
916	708.951414	705.378978			4.465
917	709.367787	705.802405			4.47
918	709.784096	706.225748			4.475
919	710.200343	706.649009			4.48
920	710.616528	707.072187			4.485
921	711.03265	707.495283			4.49
922	711.448709	707.918296			4.495
923	711.864706	708.341227			4.5
924	712.280642	708.764076			4.505
925	712.696515	709.186844			4.51
926	713.112326	709.60953			4.515
927	713.528075	710.032134			4.52
928	713.943763	710.454657			4.525
929	714.359389	710.877099			4.53
930	714.774953	711.299461			4.535
931	715.190456	711.721741			4.54
932	715.605898	712.143942			4.545
933	716.021279	712.566062			4.55
934	716.436599	712.988101			4.555
935	716.851858	713.410061			4.56
936	717.267055	713.831942			4.565
937	717.682193	714.253742			4.57
938	718.097269	714.675463			4.575

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
939	718.512285	715.097105			4.58
940	718.927241	715.518668			4.585
941	719.342136	715.940153			4.59
942	719.756971	716.361558			4.595
943	720.171746	716.782885			4.6
944	720.586461	717.204134			4.605
945	721.001116	717.625304			4.61
946	721.415711	718.046397			4.615
947	721.830247	718.467412			4.62
948	722.244723	718.888349			4.625
949	722.65914	719.309208			4.63
950	723.073497	719.729991			4.635
951	723.487795	720.150696			4.64
952	723.902033	720.571324			4.645
953	724.316213	720.991875			4.65
954	724.730334	721.41235			4.655
955	725.144395	721.832749			4.66
956	725.558398	722.253071			4.665
957	725.972343	722.673317			4.67
958	726.386228	723.093487			4.675
959	726.800055	723.513581			4.68
960	727.213824	723.933599			4.685
961	727.627535	724.353542			4.69
962	728.041187	724.77341			4.695
963	728.454781	725.193203			4.7
964	728.868318	725.61292			4.705
965	729.281796	726.032563			4.71
966	729.695217	726.452131			4.715
967	730.108579	726.871625			4.72
968	730.521885	727.291044			4.725
969	730.935132	727.710389			4.73
970	731.348322	728.12966			4.735
971	731.761455	728.548857			4.74
972	732.174531	728.96798			4.745
973	732.58755	729.38703			4.75
974	733.000511	729.806007			4.755
975	733.413415	730.22491			4.76
976	733.826263	730.64374			4.765
977	734.239054	731.062497			4.77
978	734.651788	731.481181			4.775
979	735.064466	731.899792			4.78

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
980	735.477087	732.318331			4.785
981	735.889651	732.736798			4.79
982	736.30216	733.155192			4.795
983	736.714612	733.573515			4.8
984	737.127008	733.991765			4.805
985	737.539348	734.409944			4.81
986	737.951632	734.828051			4.815
987	738.36386	735.246086			4.82
988	738.776032	735.66405			4.825
989	739.188148	736.081943			4.83
990	739.600209	736.499765			4.835
991	740.012215	736.917516			4.84
992	740.424165	737.335196			4.845
993	740.836059	737.752806			4.85
994	741.247899	738.170345			4.855
995	741.659683	738.587814			4.86
996	742.071412	739.005213			4.865
997	742.483086	739.422541			4.87
998	742.894705	739.8398			4.875
999	743.30627	740.256989			4.88
1000	743.717779	740.674108			4.885
1001	744.129234	741.091158			4.89
1002	744.540635	741.508138			4.895
1003	744.951981	741.925049			4.9
1004	745.363272	742.341891			4.905
1005	745.774509	742.758665			4.91
1006	746.185692	743.175369			4.915
1007	746.596821	743.592004			4.92
1008	747.007895	744.008571			4.925
1009	747.418916	744.42507			4.93
1010	747.829883	744.8415			4.935
1011	748.240796	745.257863			4.94
1012	748.651655	745.674157			4.945
1013	749.06246	746.090383			4.95
1014	749.473212	746.506542			4.955
1015	749.88391	746.922633			4.96
1016	750.294555	747.338656			4.965
1017	750.705147	747.754612			4.97
1018	751.115685	748.170501			4.975
1019	751.52617	748.586323			4.98
1020	751.936602	749.002077			4.985

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1021	752.346981	749.417765			4.99
1022	752.757307	749.833386			4.995
1023	753.167581	750.248941			5
1024	753.577801	750.664429			5.005
1025	753.987969	751.079851			5.01
1026	754.398084	751.495206			5.015
1027	754.808146	751.910496			5.02
1028	755.218156	752.325719			5.025
1029	755.628114	752.740877			5.03
1030	756.038019	753.155969			5.035
1031	756.447872	753.570995			5.04
1032	756.857673	753.985956			5.045
1033	757.267421	754.400851			5.05
1034	757.677118	754.815681			5.055
1035	758.086763	755.230446			5.06
1036	758.496355	755.645147			5.065
1037	758.905896	756.059782			5.07
1038	759.315386	756.474352			5.075
1039	759.724823	756.888858			5.08
1040	760.13421	757.303299			5.085
1041	760.543544	757.717676			5.09
1042	760.952827	758.131989			5.095
1043	761.362059	758.546238			5.1
1044	761.77124	758.960422			5.105
1045	762.180369	759.374543			5.11
1046	762.589447	759.788599			5.115
1047	762.998474	760.202592			5.12
1048	763.40745	760.616522			5.125
1049	763.816376	761.030388			5.13
1050	764.22525	761.444191			5.135
1051	764.634074	761.85793			5.14
1052	765.042846	762.271606			5.145
1053	765.451569	762.68522			5.15
1054	765.86024	763.09877			5.155
1055	766.268862	763.512258			5.16
1056	766.677432	763.925683			5.165
1057	767.085953	764.339045			5.17
1058	767.494423	764.752345			5.175
1059	767.902843	765.165583			5.18
1060	768.311213	765.578758			5.185
1061	768.719533	765.991871			5.19

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1062	769.127802	766.404923			5.195
1063	769.536022	766.817912			5.2
1064	769.944192	767.23084			5.205
1065	770.352312	767.643706			5.21
1066	770.760383	768.05651			5.215
1067	771.168403	768.469253			5.22
1068	771.576375	768.881934			5.225
1069	771.984296	769.294555			5.23
1070	772.392168	769.707114			5.235
1071	772.799991	770.119612			5.24
1072	773.207765	770.532049			5.245
1073	773.615489	770.944425			5.25
1074	774.023164	771.356741			5.255
1075	774.43079	771.768996			5.26
1076	774.838367	772.181191			5.265
1077	775.245895	772.593325			5.27
1078	775.653374	773.005399			5.275
1079	776.060804	773.417412			5.28
1080	776.468185	773.829366			5.285
1081	776.875518	774.24126			5.29
1082	777.282802	774.653093			5.295
1083	777.690037	775.064867			5.3
1084	778.097224	775.476581			5.305
1085	778.504363	775.888236			5.31
1086	778.911453	776.299831			5.315
1087	779.318494	776.711367			5.32
1088	779.725488	777.122843			5.325
1089	780.132433	777.534261			5.33
1090	780.53933	777.945619			5.335
1091	780.946179	778.356918			5.34
1092	781.35298	778.768158			5.345
1093	781.759733	779.17934			5.35
1094	782.166438	779.590463			5.355
1095	782.573095	780.001527			5.36
1096	782.979704	780.412533			5.365
1097	783.386266	780.82348			5.37
1098	783.79278	781.234369			5.375
1099	784.199247	781.6452			5.38
1100	784.605666	782.055973			5.385
1101	785.012037	782.466688			5.39
1102	785.418362	782.877345			5.395

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1103	785.824638	783.287944			5.4
1104	786.230868	783.698485			5.405
1105	786.63705	784.108969			5.41
1106	787.043186	784.519395			5.415
1107	787.449274	784.929763			5.42
1108	787.855315	785.340075			5.425
1109	788.261309	785.750329			5.43
1110	788.667256	786.160526			5.435
1111	789.073156	786.570666			5.44
1112	789.47901	786.980749			5.445
1113	789.884817	787.390775			5.45
1114	790.290577	787.800744			5.455
1115	790.69629	788.210656			5.46
1116	791.101957	788.620512			5.465
1117	791.507578	789.030311			5.47
1118	791.913152	789.440054			5.475
1119	792.318679	789.849741			5.48
1120	792.724161	790.259371			5.485
1121	793.129596	790.668946			5.49
1122	793.534984	791.078464			5.495
1123	793.940327	791.487926			5.5
1124	794.345624	791.897332			5.505
1125	794.750874	792.306682			5.51
1126	795.156079	792.715977			5.515
1127	795.561237	793.125216			5.52
1128	795.96635	793.5344			5.525
1129	796.371417	793.943528			5.53
1130	796.776438	794.3526			5.535
1131	797.181414	794.761618			5.54
1132	797.586344	795.17058			5.545
1133	797.991228	795.579487			5.55
1134	798.396067	795.988339			5.555
1135	798.80086	796.397136			5.56
1136	799.205608	796.805879			5.565
1137	799.610311	797.214566			5.57
1138	800.014968	797.623199			5.575
1139	800.41958	798.031777			5.58
1140	800.824147	798.440301			5.585
1141	801.228668	798.84877			5.59
1142	801.633145	799.257185			5.595
1143	802.037576	799.665546			5.6

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1144	802.441963	800.073852			5.605
1145	802.846304	800.482105			5.61
1146	803.250601	800.890303			5.615
1147	803.654853	801.298448			5.62
1148	804.05906	801.706538			5.625
1149	804.463223	802.114575			5.63
1150	804.867341	802.522558			5.635
1151	805.271414	802.930488			5.64
1152	805.675442	803.338364			5.645
1153	806.079427	803.746186			5.65
1154	806.483366	804.153955			5.655
1155	806.887262	804.561671			5.66
1156	807.291112	804.969334			5.665
1157	807.694919	805.376943			5.67
1158	808.098682	805.7845			5.675
1159	808.5024	806.192003			5.68
1160	808.906074	806.599454			5.685
1161	809.309704	807.006852			5.69
1162	809.71329	807.414197			5.695
1163	810.116832	807.82149			5.7
1164	810.52033	808.228729			5.705
1165	810.923785	808.635917			5.71
1166	811.327195	809.043052			5.715
1167	811.730562	809.450134			5.72
1168	812.133885	809.857165			5.725
1169	812.537164	810.264143			5.73
1170	812.940399	810.671069			5.735
1171	813.343592	811.077943			5.74
1172	813.74674	811.484765			5.745
1173	814.149845	811.891535			5.75
1174	814.552907	812.298253			5.755
1175	814.955925	812.70492			5.76
1176	815.3589	813.111535			5.765
1177	815.761832	813.518098			5.77
1178	816.16472	813.92461			5.775
1179	816.567566	814.331071			5.78
1180	816.970368	814.73748			5.785
1181	817.373127	815.143837			5.79
1182	817.775843	815.550144			5.795
1183	818.178516	815.956399			5.8
1184	818.581146	816.362604			5.805

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1185	818.983734	816.768757			5.81
1186	819.386278	817.174859			5.815
1187	819.78878	817.580911			5.82
1188	820.191239	817.986912			5.825
1189	820.593655	818.392862			5.83
1190	820.996029	818.798761			5.835
1191	821.39836	819.20461			5.84
1192	821.800648	819.610408			5.845
1193	822.202894	820.016156			5.85
1194	822.605098	820.421854			5.855
1195	823.007259	820.827501			5.86
1196	823.409378	821.233098			5.865
1197	823.811454	821.638645			5.87
1198	824.213489	822.044142			5.875
1199	824.615481	822.449589			5.88
1200	825.01743	822.854986			5.885
1201	825.419338	823.260333			5.89
1202	825.821204	823.665631			5.895
1203	826.223027	824.070878			5.9
1204	826.624809	824.476076			5.905
1205	827.026549	824.881225			5.91
1206	827.428247	825.286323			5.915
1207	827.829903	825.691373			5.92
1208	828.231517	826.096373			5.925
1209	828.633089	826.501324			5.93
1210	829.03462	826.906225			5.935
1211	829.436109	827.311077			5.94
1212	829.837556	827.715881			5.945
1213	830.238962	828.120635			5.95
1214	830.640326	828.52534			5.955
1215	831.041649	828.929996			5.96
1216	831.442931	829.334604			5.965
1217	831.844171	829.739162			5.97
1218	832.245369	830.143672			5.975
1219	832.646527	830.548133			5.98
1220	833.047643	830.952546			5.985
1221	833.448718	831.35691			5.99
1222	833.849751	831.761226			5.995
1223	834.250744	832.165493			6
1224	834.651695	832.569712			6.005
1225	835.052606	832.973883			6.01

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1226	835.453475	833.378006			6.015
1227	836.414915	833.378006			6.02
1228	837.223709	833.378006			6.025
1229	837.924635	833.378006			6.03
1230	838.549445	833.378006			6.035
1231	839.120605	833.378006			6.04
1232	839.653988	833.378006			6.045
1233	840.160788	833.378006			6.05
1234	840.648896	833.378006			6.055
1235	841.123866	833.378006			6.06
1236	841.589602	833.378006			6.065
1237	842.04885	833.378006			6.07
1238	842.503538	833.378006			6.075
1239	842.955017	833.378006			6.08
1240	843.404238	833.378006			6.085
1241	843.851863	833.378006			6.09
1242	844.298358	833.378006			6.095
1243	844.74405	833.378006			6.1
1244	845.189166	833.378006			6.105
1245	845.633865	833.378006			6.11
1246	846.078258	833.378006			6.115
1247	846.522424	833.378006			6.12
1248	846.966416	833.378006			6.125
1249	847.410272	833.378006			6.13
1250	847.854018	833.378006			6.135
1251	848.297673	833.378006			6.14
1252	848.74125	833.378006			6.145
1253	849.184757	833.378006			6.15
1254	849.628201	833.378006			6.155
1255	850.071585	833.378006			6.16
1256	850.514914	833.378006			6.165
1257	850.958189	833.378006			6.17
1258	851.401411	833.378006			6.175
1259	851.844582	833.378006			6.18
1260	852.287702	833.378006			6.185
1261	852.730772	833.378006			6.19
1262	853.173792	833.378006			6.195
1263	853.616762	833.378006			6.2
1264	854.059683	833.378006			6.205
1265	854.502555	833.378006			6.21
1266	854.945378	833.378006			6.215

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1267	855.388152	833.378006			6.22
1268	855.830877	833.378006			6.225
1269	856.273553	833.378006			6.23
1270	856.71618	833.378006			6.235
1271	857.158759	833.378006			6.24
1272	857.601289	833.378006			6.245
1273	858.04377	833.378006			6.25
1274	858.486203	833.378006			6.255
1275	858.928587	833.378006			6.26
1276	859.370923	833.378006			6.265
1277	859.81321	833.378006			6.27
1278	860.255449	833.378006			6.275
1279	860.69764	833.378006			6.28
1280	861.139782	833.378006			6.285
1281	861.581876	833.378006			6.29
1282	862.023921	833.378006			6.295
1283	862.465919	833.378006			6.3
1284	862.907868	833.378006			6.305
1285	863.34977	833.378006			6.31
1286	863.791623	833.378006			6.315
1287	864.233428	833.378006			6.32
1288	864.675185	833.378006			6.325
1289	865.116895	833.378006			6.33
1290	865.558556	833.378006			6.335
1291	866.000169	833.378006			6.34
1292	866.441735	833.378006			6.345
1293	866.883253	833.378006			6.35
1294	867.324723	833.378006			6.355
1295	867.766146	833.378006			6.36
1296	868.207521	833.378006			6.365
1297	868.648848	833.378006			6.37
1298	869.090128	833.378006			6.375
1299	869.53136	833.378006			6.38
1300	869.972545	833.378006			6.385
1301	870.413683	833.378006			6.39
1302	870.854773	833.378006			6.395
1303	871.295815	833.378006			6.4
1304	871.73681	833.378006			6.405
1305	872.177759	833.378006			6.41
1306	872.618659	833.378006			6.415
1307	873.059513	833.378006			6.42

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1308	873.500319	833.378006			6.425
1309	873.941079	833.378006			6.43
1310	874.381791	833.378006			6.435
1311	874.822456	833.378006			6.44
1312	875.263074	833.378006			6.445
1313	875.703646	833.378006			6.45
1314	876.144417	833.378006			6.455
1315	876.584648	833.378006			6.46
1316	877.025078	833.378006			6.465
1317	877.465462	833.378006			6.47
1318	877.905799	833.378006			6.475
1319	878.34609	833.378006			6.48
1320	878.786333	833.378006			6.485
1321	879.226531	833.378006			6.49
1322	879.666681	833.378006			6.495
1323	880.106785	833.378006			6.5
1324	880.546842	833.378006			6.505
1325	880.986853	833.378006			6.51
1326	881.426818	833.378006			6.515
1327	881.866736	833.378006			6.52
1328	882.306608	833.378006			6.525
1329	882.746433	833.378006			6.53
1330	883.186212	833.378006			6.535
1331	883.625945	833.378006			6.54
1332	884.065632	833.378006			6.545
1333	884.505272	833.378006			6.55
1334	884.944866	833.378006			6.555
1335	885.384415	833.378006			6.56
1336	885.823917	833.378006			6.565
1337	886.263373	833.378006			6.57
1338	886.702783	833.378006			6.575
1339	887.142147	833.378006			6.58
1340	887.581466	833.378006			6.585
1341	888.020738	833.378006			6.59
1342	888.459965	833.378006			6.595
1343	888.899146	833.378006			6.6
1344	889.338281	833.378006			6.605
1345	889.77737	833.378006			6.61
1346	890.216413	833.378006			6.615
1347	890.655411	833.378006			6.62
1348	891.094364	833.378006			6.625

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1349	891.533271	833.378006			6.63
1350	891.972132	833.378006			6.635
1351	892.410948	833.378006			6.64
1352	892.849718	833.378006			6.645
1353	893.288443	833.378006			6.65
1354	893.727122	833.378006			6.655
1355	894.165756	833.378006			6.66
1356	894.604345	833.378006			6.665
1357	895.042888	833.378006			6.67
1358	895.481387	833.378006			6.675
1359	895.91984	833.378006			6.68
1360	896.358247	833.378006			6.685
1361	896.79661	833.378006			6.69
1362	897.234928	833.378006			6.695
1363	897.6732	833.378006			6.7
1364	898.111428	833.378006			6.705
1365	898.54961	833.378006			6.71
1366	898.987748	833.378006			6.715
1367	899.42584	833.378006			6.72
1368	899.863888	833.378006			6.725
1369	900.301891	833.378006			6.73
1370	900.739849	833.378006			6.735
1371	901.177762	833.378006			6.74
1372	901.61563	833.378006			6.745
1373	902.053454	833.378006			6.75
1374	902.491233	833.378006			6.755
1375	902.928968	833.378006			6.76
1376	903.366657	833.378006			6.765
1377	903.804303	833.378006			6.77
1378	904.241903	833.378006			6.775
1379	904.679459	833.378006			6.78
1380	905.116971	833.378006			6.785
1381	905.554438	833.378006			6.79
1382	905.991861	833.378006			6.795
1383	906.42924	833.378006			6.8
1384	906.866574	833.378006			6.805
1385	907.303864	833.378006			6.81
1386	907.741109	833.378006			6.815
1387	908.17831	833.378006			6.82
1388	908.615468	833.378006			6.825
1389	909.052581	833.378006			6.83

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1390	909.489649	833.378006			6.835
1391	909.926674	833.378006			6.84
1392	910.363655	833.378006			6.845
1393	910.800591	833.378006			6.85
1394	911.237484	833.378006			6.855
1395	911.674333	833.378006			6.86
1396	912.111137	833.378006			6.865
1397	912.547898	833.378006			6.87
1398	912.984615	833.378006			6.875
1399	913.421288	833.378006			6.88
1400	913.857917	833.378006			6.885
1401	914.294503	833.378006			6.89
1402	914.731045	833.378006			6.895
1403	915.167543	833.378006			6.9
1404	915.603997	833.378006			6.905
1405	916.040408	833.378006			6.91
1406	916.476775	833.378006			6.915
1407	916.913099	833.378006			6.92
1408	917.349379	833.378006			6.925
1409	917.785615	833.378006			6.93
1410	918.221808	833.378006			6.935
1411	918.657958	833.378006			6.94
1412	919.094064	833.378006			6.945
1413	919.530127	833.378006			6.95
1414	919.966147	833.378006			6.955
1415	920.402123	833.378006			6.96
1416	920.838056	833.378006			6.965
1417	921.273945	833.378006			6.97
1418	921.709792	833.378006			6.975
1419	922.145595	833.378006			6.98
1420	922.581355	833.378006			6.985
1421	923.017072	833.378006			6.99
1422	923.452746	833.378006			6.995
1423	923.888377	833.378006			7
1424	924.323965	833.378006			7.005
1425	924.75951	833.378006			7.01
1426	925.195011	833.378006			7.015
1427	925.63047	833.378006			7.02
1428	926.065886	833.378006			7.025
1429	926.501259	833.378006			7.03
1430	926.93659	833.378006			7.035

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1431	927.371877	833.378006			7.04
1432	927.807122	833.378006			7.045
1433	928.242324	833.378006			7.05
1434	928.677483	833.378006			7.055
1435	929.1126	833.378006			7.06
1436	929.547673	833.378006			7.065
1437	929.982705	833.378006			7.07
1438	930.417693	833.378006			7.075
1439	930.85264	833.378006			7.08
1440	931.287543	833.378006			7.085
1441	931.722404	833.378006			7.09
1442	932.157223	833.378006			7.095
1443	932.591999	833.378006			7.1
1444	933.026733	833.378006			7.105
1445	933.461424	833.378006			7.11
1446	933.896073	833.378006			7.115
1447	934.33068	833.378006			7.12
1448	934.765244	833.378006			7.125
1449	935.199766	833.378006			7.13
1450	935.634246	833.378006			7.135
1451	936.068684	833.378006			7.14
1452	936.503079	833.378006			7.145
1453	936.937433	833.378006			7.15
1454	937.371744	833.378006			7.155
1455	937.806013	833.378006			7.16
1456	938.240241	833.378006			7.165
1457	938.674426	833.378006			7.17
1458	939.108569	833.378006			7.175
1459	939.54267	833.378006			7.18
1460	939.976729	833.378006			7.185
1461	940.410747	833.378006			7.19
1462	940.844722	833.378006			7.195
1463	941.278656	833.378006			7.2
1464	941.712547	833.378006			7.205
1465	942.146397	833.378006			7.21
1466	942.580206	833.378006			7.215
1467	943.013972	833.378006			7.22
1468	943.447697	833.378006			7.225
1469	943.88138	833.378006			7.23
1470	944.315021	833.378006			7.235
1471	944.748621	833.378006			7.24

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1472	945.18218	833.378006			7.245
1473	945.615696	833.378006			7.25
1474	946.049172	833.378006			7.255
1475	946.482605	833.378006			7.26
1476	946.915997	833.378006			7.265
1477	947.349348	833.378006			7.27
1478	947.782658	833.378006			7.275
1479	948.215926	833.378006			7.28
1480	948.649152	833.378006			7.285
1481	949.082337	833.378006			7.29
1482	949.515481	833.378006			7.295
1483	949.948584	833.378006			7.3
1484	950.381646	833.378006			7.305
1485	950.814666	833.378006			7.31
1486	951.247645	833.378006			7.315
1487	951.680583	833.378006			7.32
1488	952.113479	833.378006			7.325
1489	952.546335	833.378006			7.33
1490	952.97915	833.378006			7.335
1491	953.411923	833.378006			7.34
1492	953.844656	833.378006			7.345
1493	954.277347	833.378006			7.35
1494	954.709998	833.378006			7.355
1495	955.142607	833.378006			7.36
1496	955.575176	833.378006			7.365
1497	956.007703	833.378006			7.37
1498	956.44019	833.378006			7.375
1499	956.872636	833.378006			7.38
1500	957.305042	833.378006			7.385
1501	957.737406	833.378006			7.39
1502	958.16973	833.378006			7.395
1503	958.602013	833.378006			7.4
1504	959.034255	833.378006			7.405
1505	959.466457	833.378006			7.41
1506	959.898618	833.378006			7.415
1507	960.330738	833.378006			7.42
1508	960.762818	833.378006			7.425
1509	961.194857	833.378006			7.43
1510	961.626856	833.378006			7.435
1511	962.058814	833.378006			7.44
1512	962.490732	833.378006			7.445

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1513	962.922609	833.378006			7.45
1514	963.354446	833.378006			7.455
1515	963.786242	833.378006			7.46
1516	964.217998	833.378006			7.465
1517	964.649714	833.378006			7.47
1518	965.081389	833.378006			7.475
1519	965.513024	833.378006			7.48
1520	965.944619	833.378006			7.485
1521	966.376173	833.378006			7.49
1522	966.807687	833.378006			7.495
1523	967.239162	833.378006			7.5
1524	967.670595	833.378006			7.505
1525	968.101989	833.378006			7.51
1526	968.533343	833.378006			7.515
1527	968.964656	833.378006			7.52
1528	969.39593	833.378006			7.525
1529	969.827163	833.378006			7.53
1530	970.258357	833.378006			7.535
1531	970.68951	833.378006			7.54
1532	971.120624	833.378006			7.545
1533	971.551697	833.378006			7.55
1534	971.982731	833.378006			7.555
1535	972.413725	833.378006			7.56
1536	972.844679	833.378006			7.565
1537	973.275593	833.378006			7.57
1538	973.706467	833.378006			7.575
1539	974.137302	833.378006			7.58
1540	974.568096	833.378006			7.585
1541	974.998851	833.378006			7.59
1542	975.429567	833.378006			7.595
1543	975.860242	833.378006			7.6
1544	976.290878	833.378006			7.605
1545	976.721475	833.378006			7.61
1546	977.152031	833.378006			7.615
1547	977.582549	833.378006			7.62
1548	978.013026	833.378006			7.625
1549	978.443464	833.378006			7.63
1550	978.873863	833.378006			7.635
1551	979.304222	833.378006			7.64
1552	979.734542	833.378006			7.645
1553	980.164822	833.378006			7.65

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1554	980.595063	833.378006			7.655
1555	981.025264	833.378006			7.66
1556	981.455426	833.378006			7.665
1557	981.885549	833.378006			7.67
1558	982.315632	833.378006			7.675
1559	982.745677	833.378006			7.68
1560	983.175682	833.378006			7.685
1561	983.605647	833.378006			7.69
1562	984.035574	833.378006			7.695
1563	984.465461	833.378006			7.7
1564	984.895309	833.378006			7.705
1565	985.325118	833.378006			7.71
1566	985.754888	833.378006			7.715
1567	986.184619	833.378006			7.72
1568	986.614311	833.378006			7.725
1569	987.043963	833.378006			7.73
1570	987.473577	833.378006			7.735
1571	987.903152	833.378006			7.74
1572	988.332687	833.378006			7.745
1573	988.762184	833.378006			7.75
1574	989.191642	833.378006			7.755
1575	989.621061	833.378006			7.76
1576	990.050441	833.378006			7.765
1577	990.479783	833.378006			7.77
1578	990.909085	833.378006			7.775
1579	991.338349	833.378006			7.78
1580	991.767574	833.378006			7.785
1581	992.19676	833.378006			7.79
1582	992.625907	833.378006			7.795
1583	993.055016	833.378006			7.8
1584	993.484086	833.378006			7.805
1585	993.913117	833.378006			7.81
1586	994.34211	833.378006			7.815
1587	994.771064	833.378006			7.82
1588	995.19998	833.378006			7.825
1589	995.628857	833.378006			7.83
1590	996.057695	833.378006			7.835
1591	996.486495	833.378006			7.84
1592	996.915256	833.378006			7.845
1593	997.343979	833.378006			7.85
1594	997.772664	833.378006			7.855

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1595	998.20131	833.378006			7.86
1596	998.629918	833.378006			7.865
1597	999.058487	833.378006			7.87
1598	999.487018	833.378006			7.875
1599	999.91551	833.378006			7.88
1600	1000.34396	833.378006			7.885
1601	1000.77238	833.378006			7.89
1602	1001.20076	833.378006			7.895
1603	1001.6291	833.378006			7.9
1604	1002.0574	833.378006			7.905
1605	1002.48566	833.378006			7.91
1606	1002.91389	833.378006			7.915
1607	1003.34207	833.378006			7.92
1608	1003.77022	833.378006			7.925
1609	1004.19833	833.378006			7.93
1610	1004.62641	833.378006			7.935
1611	1005.05444	833.378006			7.94
1612	1005.48244	833.378006			7.945
1613	1005.91039	833.378006			7.95
1614	1006.33832	833.378006			7.955
1615	1006.7662	833.378006			7.96
1616	1007.19404	833.378006			7.965
1617	1007.62185	833.378006			7.97
1618	1008.04962	833.378006			7.975
1619	1008.47735	833.378006			7.98
1620	1008.90504	833.378006			7.985
1621	1009.3327	833.378006			7.99
1622	1009.76031	833.378006			7.995
1623	1010.18789	833.378006			8
1624	1010.61543	833.378006			8.005
1625	1011.04294	833.378006			8.01
1626	1011.4704	833.378006			8.015
1627	1011.89783	833.378006			8.02
1628	1012.32522	833.378006			8.025
1629	1012.75258	833.378006			8.03
1630	1013.17989	833.378006			8.035
1631	1013.60717	833.378006			8.04
1632	1014.03441	833.378006			8.045
1633	1014.46161	833.378006			8.05
1634	1014.88878	833.378006			8.055
1635	1015.31591	833.378006			8.06

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1636	1015.743	833.378006			8.065
1637	1016.17005	833.378006			8.07
1638	1016.59706	833.378006			8.075
1639	1017.02404	833.378006			8.08
1640	1017.45098	833.378006			8.085
1641	1017.87788	833.378006			8.09
1642	1018.30475	833.378006			8.095
1643	1018.73158	833.378006			8.1
1644	1019.15837	833.378006			8.105
1645	1019.58512	833.378006			8.11
1646	1020.01184	833.378006			8.115
1647	1020.43852	833.378006			8.12
1648	1020.86516	833.378006			8.125
1649	1021.29176	833.378006			8.13
1650	1021.71833	833.378006			8.135
1651	1022.14486	833.378006			8.14
1652	1022.57135	833.378006			8.145
1653	1022.99781	833.378006			8.15
1654	1023.42423	833.378006			8.155
1655	1023.85061	833.378006			8.16
1656	1024.27695	833.378006			8.165
1657	1024.70326	833.378006			8.17
1658	1025.12953	833.378006			8.175
1659	1025.55576	833.378006			8.18
1660	1025.98196	833.378006			8.185
1661	1026.40812	833.378006			8.19
1662	1026.83424	833.378006			8.195
1663	1027.26032	833.378006			8.2
1664	1027.68637	833.378006			8.205
1665	1028.11238	833.378006			8.21
1666	1028.53836	833.378006			8.215
1667	1028.9643	833.378006			8.22
1668	1029.3902	833.378006			8.225
1669	1029.81606	833.378006			8.23
1670	1030.24189	833.378006			8.235
1671	1030.66768	833.378006			8.24
1672	1031.09343	833.378006			8.245
1673	1031.51915	833.378006			8.25
1674	1031.94483	833.378006			8.255
1675	1032.37047	833.378006			8.26
1676	1032.79608	833.378006			8.265

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1677	1033.22165	833.378006			8.27
1678	1033.64718	833.378006			8.275
1679	1034.07268	833.378006			8.28
1680	1034.49814	833.378006			8.285
1681	1034.92356	833.378006			8.29
1682	1035.34895	833.378006			8.295
1683	1035.7743	833.378006			8.3
1684	1036.19961	833.378006			8.305
1685	1036.62489	833.378006			8.31
1686	1037.05013	833.378006			8.315
1687	1037.47534	833.378006			8.32
1688	1037.90051	833.378006			8.325
1689	1038.32564	833.378006			8.33
1690	1038.75073	833.378006			8.335
1691	1039.17579	833.378006			8.34
1692	1039.60081	833.378006			8.345
1693	1040.0258	833.378006			8.35
1694	1040.45075	833.378006			8.355
1695	1040.87566	833.378006			8.36
1696	1041.30054	833.378006			8.365
1697	1041.72538	833.378006			8.37
1698	1042.15019	833.378006			8.375
1699	1042.57495	833.378006			8.38
1700	1042.99969	833.378006			8.385
1701	1043.42438	833.378006			8.39
1702	1043.84904	833.378006			8.395
1703	1044.27367	833.378006			8.4
1704	1044.69825	833.378006			8.405
1705	1045.12281	833.378006			8.41
1706	1045.54732	833.378006			8.415
1707	1045.9718	833.378006			8.42
1708	1046.39624	833.378006			8.425
1709	1046.82065	833.378006			8.43
1710	1047.24502	833.378006			8.435
1711	1047.66936	833.378006			8.44
1712	1048.09366	833.378006			8.445
1713	1048.51792	833.378006			8.45
1714	1048.94215	833.378006			8.455
1715	1049.36634	833.378006			8.46
1716	1049.79049	833.378006			8.465
1717	1050.21461	833.378006			8.47

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1718	1050.6387	833.378006			8.475
1719	1051.06274	833.378006			8.48
1720	1051.48676	833.378006			8.485
1721	1051.91073	833.378006			8.49
1722	1052.33467	833.378006			8.495
1723	1052.75858	833.378006			8.5
1724	1053.18245	833.378006			8.505
1725	1053.60628	833.378006			8.51
1726	1054.03008	833.378006			8.515
1727	1054.45384	833.378006			8.52
1728	1054.87756	833.378006			8.525
1729	1055.30125	833.378006			8.53
1730	1055.72491	833.378006			8.535
1731	1056.14853	833.378006			8.54
1732	1056.57211	833.378006			8.545
1733	1056.99566	833.378006			8.55
1734	1057.41917	833.378006			8.555
1735	1057.84265	833.378006			8.56
1736	1058.26609	833.378006			8.565
1737	1058.68949	833.378006			8.57
1738	1059.11286	833.378006			8.575
1739	1059.5362	833.378006			8.58
1740	1059.9595	833.378006			8.585
1741	1060.38276	833.378006			8.59
1742	1060.80599	833.378006			8.595
1743	1061.22918	833.378006			8.6
1744	1061.65234	833.378006			8.605
1745	1062.07546	833.378006			8.61
1746	1062.49855	833.378006			8.615
1747	1062.9216	833.378006			8.62
1748	1063.34461	833.378006			8.625
1749	1063.7676	833.378006			8.63
1750	1064.19054	833.378006			8.635
1751	1064.61345	833.378006			8.64
1752	1065.03633	833.378006			8.645
1753	1065.45916	833.378006			8.65
1754	1065.88197	833.378006			8.655
1755	1066.30474	833.378006			8.66
1756	1066.72747	833.378006			8.665
1757	1067.15017	833.378006			8.67
1758	1067.57283	833.378006			8.675

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1759	1067.99546	833.378006			8.68
1760	1068.41806	833.378006			8.685
1761	1068.84061	833.378006			8.69
1762	1069.26314	833.378006			8.695
1763	1069.68563	833.378006			8.7
1764	1070.10808	833.378006			8.705
1765	1070.5305	833.378006			8.71
1766	1070.95288	833.378006			8.715
1767	1071.37523	833.378006			8.72
1768	1071.79754	833.378006			8.725
1769	1072.21982	833.378006			8.73
1770	1072.64206	833.378006			8.735
1771	1073.06427	833.378006			8.74
1772	1073.48644	833.378006			8.745
1773	1073.90858	833.378006			8.75
1774	1074.33069	833.378006			8.755
1775	1074.75275	833.378006			8.76
1776	1075.17479	833.378006			8.765
1777	1075.59679	833.378006			8.77
1778	1076.01875	833.378006			8.775
1779	1076.44068	833.378006			8.78
1780	1076.86257	833.378006			8.785
1781	1077.28443	833.378006			8.79
1782	1077.70626	833.378006			8.795
1783	1078.12805	833.378006			8.8
1784	1078.54981	833.378006			8.805
1785	1078.97153	833.378006			8.81
1786	1079.39321	833.378006			8.815
1787	1079.81486	833.378006			8.82
1788	1080.23648	833.378006			8.825
1789	1080.65806	833.378006			8.83
1790	1081.07961	833.378006			8.835
1791	1081.50112	833.378006			8.84
1792	1081.9226	833.378006			8.845
1793	1082.34405	833.378006			8.85
1794	1082.76546	833.378006			8.855
1795	1083.18683	833.378006			8.86
1796	1083.60817	833.378006			8.865
1797	1084.02948	833.378006			8.87
1798	1084.45075	833.378006			8.875
1799	1084.87199	833.378006			8.88

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1800	1085.29319	833.378006			8.885
1801	1085.71436	833.378006			8.89
1802	1086.13549	833.378006			8.895
1803	1086.55659	833.378006			8.9
1804	1086.97765	833.378006			8.905
1805	1087.39868	833.378006			8.91
1806	1087.81968	833.378006			8.915
1807	1088.24064	833.378006			8.92
1808	1088.66157	833.378006			8.925
1809	1089.08246	833.378006			8.93
1810	1089.50332	833.378006			8.935
1811	1089.92415	833.378006			8.94
1812	1090.34364	833.378006			8.945
1813	1090.74497	833.378006			8.95
1814	1091.13476	833.378006			8.955
1815	1091.51812	833.378006			8.96
1816	1091.89676	833.378006			8.965
1817	1092.27138	833.378006			8.97
1818	1092.64227	833.378006			8.975
1819	1093.00993	833.378006			8.98
1820	1093.37574	833.378006			8.985
1821	1093.74984	833.378006			8.99
1822	1094.12805	833.378006			8.995
1823	1094.50822	833.378006			9
1824	1094.88922	833.378006			9.005
1825	1095.27044	833.378006			9.01
1826	1095.65159	833.378006			9.015
1827	1096.03251	833.378006			9.02
1828	1096.41311	833.378006			9.025
1829	1096.79334	833.378006			9.03
1830	1097.17319	833.378006			9.035
1831	1097.55264	833.378006			9.04
1832	1097.93169	833.378006			9.045
1833	1098.31033	833.378006			9.05
1834	1098.68857	833.378006			9.055
1835	1099.06641	833.378006			9.06
1836	1099.44384	833.378006			9.065
1837	1099.82087	833.378006			9.07
1838	1100.19749	833.378006			9.075
1839	1100.57372	833.378006			9.08
1840	1100.94955	833.378006			9.085

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1841	1101.32497	833.378006			9.09
1842	1101.70001	833.378006			9.095
1843	1102.07464	833.378006			9.1
1844	1102.44888	833.378006			9.105
1845	1102.82273	833.378006			9.11
1846	1103.19619	833.378006			9.115
1847	1103.56926	833.378006			9.12
1848	1103.94194	833.378006			9.125
1849	1104.31422	833.378006			9.13
1850	1104.68613	833.378006			9.135
1851	1105.05764	833.378006			9.14
1852	1105.42878	833.378006			9.145
1853	1105.79952	833.378006			9.15
1854	1106.16989	833.378006			9.155
1855	1106.53988	833.378006			9.16
1856	1106.90948	833.378006			9.165
1857	1107.27871	833.378006			9.17
1858	1107.64756	833.378006			9.175
1859	1108.01603	833.378006			9.18
1860	1108.38413	833.378006			9.185
1861	1108.75185	833.378006			9.19
1862	1109.1192	833.378006			9.195
1863	1109.48618	833.378006			9.2
1864	1109.85279	833.378006			9.205
1865	1110.21903	833.378006			9.21
1866	1110.5849	833.378006			9.215
1867	1110.9504	833.378006			9.22
1868	1111.31553	833.378006			9.225
1869	1111.68031	833.378006			9.23
1870	1112.04471	833.378006			9.235
1871	1112.40876	833.378006			9.24
1872	1112.77244	833.378006			9.245
1873	1113.13583	833.378006			9.25
1874	1113.49925	833.378006			9.255
1875	1113.86304	833.378006			9.26
1876	1114.227	833.378006			9.265
1877	1114.59101	833.378006			9.27
1878	1114.955	833.378006			9.275
1879	1115.31893	833.378006			9.28
1880	1115.68277	833.378006			9.285
1881	1116.04652	833.378006			9.29

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1882	1116.41016	833.378006			9.295
1883	1116.7737	833.378006			9.3
1884	1117.13713	833.378006			9.305
1885	1117.50045	833.378006			9.31
1886	1117.86365	833.378006			9.315
1887	1118.22675	833.378006			9.32
1888	1118.58973	833.378006			9.325
1889	1118.9526	833.378006			9.33
1890	1119.31536	833.378006			9.335
1891	1119.67801	833.378006			9.34
1892	1120.04055	833.378006			9.345
1893	1120.40297	833.378006			9.35
1894	1120.76529	833.378006			9.355
1895	1121.12749	833.378006			9.36
1896	1121.48958	833.378006			9.365
1897	1121.85156	833.378006			9.37
1898	1122.21343	833.378006			9.375
1899	1122.57519	833.378006			9.38
1900	1122.93684	833.378006			9.385
1901	1123.29838	833.378006			9.39
1902	1123.6598	833.378006			9.395
1903	1124.02112	833.378006			9.4
1904	1124.38233	833.378006			9.405
1905	1124.74342	833.378006			9.41
1906	1125.10441	833.378006			9.415
1907	1125.46529	833.378006			9.42
1908	1125.82605	833.378006			9.425
1909	1126.18671	833.378006			9.43
1910	1126.54726	833.378006			9.435
1911	1126.90769	833.378006			9.44
1912	1127.26802	833.378006			9.445
1913	1127.62824	833.378006			9.45
1914	1127.98835	833.378006			9.455
1915	1128.34835	833.378006			9.46
1916	1128.70824	833.378006			9.465
1917	1129.06802	833.378006			9.47
1918	1129.4277	833.378006			9.475
1919	1129.78726	833.378006			9.48
1920	1130.14672	833.378006			9.485
1921	1130.50606	833.378006			9.49
1922	1130.8653	833.378006			9.495

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1923	1131.22443	833.378006			9.5
1924	1131.58346	833.378006			9.505
1925	1131.94237	833.378006			9.51
1926	1132.30118	833.378006			9.515
1927	1132.65987	833.378006			9.52
1928	1133.01841	833.378006			9.525
1929	1133.37667	833.378006			9.53
1930	1133.73386	833.378006			9.535
1931	1134.09028	833.378006			9.54
1932	1134.44609	833.378006			9.545
1933	1134.80139	833.378006			9.55
1934	1135.15622	833.378006			9.555
1935	1135.51063	833.378006			9.56
1936	1135.86463	833.378006			9.565
1937	1136.21822	833.378006			9.57
1938	1136.57141	833.378006			9.575
1939	1136.92422	833.378006			9.58
1940	1137.27663	833.378006			9.585
1941	1137.62866	833.378006			9.59
1942	1137.9803	833.378006			9.595
1943	1138.33156	833.378006			9.6
1944	1138.68243	833.378006			9.605
1945	1139.03293	833.378006			9.61
1946	1139.38304	833.378006			9.615
1947	1139.73278	833.378006			9.62
1948	1140.08214	833.378006			9.625
1949	1140.43112	833.378006			9.63
1950	1140.77973	833.378006			9.635
1951	1141.12796	833.378006			9.64
1952	1141.47582	833.378006			9.645
1953	1141.82331	833.378006			9.65
1954	1142.17043	833.378006			9.655
1955	1142.51718	833.378006			9.66
1956	1142.86357	833.378006			9.665
1957	1143.20958	833.378006			9.67
1958	1143.55524	833.378006			9.675
1959	1143.90052	833.378006			9.68
1960	1144.24545	833.378006			9.685
1961	1144.59001	833.378006			9.69
1962	1144.93421	833.378006			9.695
1963	1145.27806	833.378006			9.7

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1964	1145.62154	833.378006			9.705
1965	1145.96467	833.378006			9.71
1966	1146.30744	833.378006			9.715
1967	1146.64985	833.378006			9.72
1968	1146.99191	833.378006			9.725
1969	1147.33362	833.378006			9.73
1970	1147.67498	833.378006			9.735
1971	1148.01598	833.378006			9.74
1972	1148.35664	833.378006			9.745
1973	1148.69694	833.378006			9.75
1974	1149.0369	833.378006			9.755
1975	1149.37651	833.378006			9.76
1976	1149.71578	833.378006			9.765
1977	1150.0547	833.378006			9.77
1978	1150.39328	833.378006			9.775
1979	1150.73152	833.378006			9.78
1980	1151.06942	833.378006			9.785
1981	1151.40697	833.378006			9.79
1982	1151.74419	833.378006			9.795
1983	1152.08106	833.378006			9.8
1984	1152.4176	833.378006			9.805
1985	1152.75382	833.378006			9.81
1986	1153.08978	833.378006			9.815
1987	1153.42574	833.378006			9.82
1988	1153.76216	833.378006			9.825
1989	1154.09885	833.378006			9.83
1990	1154.43567	833.378006			9.835
1991	1154.77256	833.378006			9.84
1992	1155.10947	833.378006			9.845
1993	1155.44637	833.378006			9.85
1994	1155.78325	833.378006			9.855
1995	1156.12009	833.378006			9.86
1996	1156.45688	833.378006			9.865
1997	1156.79364	833.378006			9.87
1998	1157.13035	833.378006			9.875
1999	1157.46701	833.378006			9.88
2000	1157.80362	833.378006			9.885
2001	1158.14018	833.378006			9.89
2002	1158.4767	833.378006			9.895
2003	1158.81316	833.378006			9.9
2004	1159.14958	833.378006			9.905

Attachment 1

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
2005	1159.48595	833.378006			9.91
2006	1159.82227	833.378006			9.915
2007	1160.15854	833.378006			9.92
2008	1160.49476	833.378006			9.925
2009	1160.83093	833.378006			9.93
2010	1161.16705	833.378006			9.935
2011	1161.50312	833.378006			9.94
2012	1161.83914	833.378006			9.945
2013	1162.17512	833.378006			9.95
2014	1162.51104	833.378006			9.955
2015	1162.84692	833.378006			9.96
2016	1163.18275	833.378006			9.965
2017	1163.51853	833.378006			9.97
2018	1163.85426	833.378006			9.975
2019	1164.18994	833.378006			9.98
2020	1164.52557	833.378006			9.985
2021	1164.86115	833.378006			9.99
2022	1165.19669	833.378006			9.995
2023	1165.53217	833.378006			10

	AN	AO	AP	AQ
1				
2				
3				
4				
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6				
7				
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9				
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11				
12				
13				
14				
15				
16				
17				
18				
19	$x = \text{SUM}(\text{AN}24:\text{AP}24) \cdot \text{EXP}(\text{AO}4/\text{AF}32)/(\text{AF}24^2 \cdot (\text{EXP}(\text{AO}4/\text{AF}24) - 1)^2)$	$x = \text{SUM}(\text{AO}6:\text{AO}24)$	$x = \text{SUM}(\text{AP}2*\text{AP}7*\text{AP}8*\text{EXP}(-\text{AP}8/(\text{AP}3*\text{AF}24)))/(2*\text{AP}3*\text{AF}24^2)$	$x = \text{SUM}(\text{AN}24:\text{AP}24)$
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
23	2.369E+02	7.826E+00	4.217E-19	244.708
24	2.371E+02	7.841E+00	4.704E-19	244.924
25	2.373E+02	7.856E+00	5.244E-19	245.138
26	2.375E+02	7.871E+00	5.842E-19	245.350
27	2.377E+02	7.886E+00	6.503E-19	245.561
28	2.379E+02	7.900E+00	7.233E-19	245.771
29	2.381E+02	7.915E+00	8.041E-19	245.979
30	2.383E+02	7.930E+00	8.933E-19	246.186
31	2.384E+02	7.945E+00	9.917E-19	246.391
32	2.386E+02	7.960E+00	1.100E-18	246.595
33	2.388E+02	7.974E+00	1.220E-18	246.798
34	2.390E+02	7.989E+00	1.352E-18	246.999
35	2.392E+02	8.004E+00	1.497E-18	247.199
36	2.394E+02	8.018E+00	1.657E-18	247.397

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
37	2.396E+02	8.033E+00	1.832E-18	247.595
38	2.397E+02	8.048E+00	2.025E-18	247.791
39	2.399E+02	8.062E+00	2.237E-18	247.986
40	2.401E+02	8.077E+00	2.470E-18	248.179
41	2.403E+02	8.091E+00	2.726E-18	248.371
42	2.405E+02	8.106E+00	3.006E-18	248.563
43	2.406E+02	8.120E+00	3.313E-18	248.753
44	2.408E+02	8.134E+00	3.650E-18	248.941
45	2.410E+02	8.149E+00	4.018E-18	249.129
46	2.412E+02	8.163E+00	4.421E-18	249.315
47	2.413E+02	8.177E+00	4.862E-18	249.500
48	2.415E+02	8.191E+00	5.344E-18	249.684
49	2.417E+02	8.206E+00	5.871E-18	249.867
50	2.418E+02	8.220E+00	6.446E-18	250.049
51	2.420E+02	8.234E+00	7.074E-18	250.230
52	2.422E+02	8.248E+00	7.759E-18	250.410
53	2.423E+02	8.262E+00	8.506E-18	250.588
54	2.425E+02	8.276E+00	9.320E-18	250.766
55	2.427E+02	8.290E+00	1.021E-17	250.942
56	2.428E+02	8.304E+00	1.117E-17	251.118
57	2.430E+02	8.318E+00	1.223E-17	251.292
58	2.431E+02	8.332E+00	1.337E-17	251.466
59	2.433E+02	8.346E+00	1.461E-17	251.638
60	2.434E+02	8.360E+00	1.597E-17	251.809
61	2.436E+02	8.374E+00	1.744E-17	251.980
62	2.438E+02	8.388E+00	1.903E-17	252.149
63	2.439E+02	8.402E+00	2.076E-17	252.317
64	2.441E+02	8.415E+00	2.264E-17	252.485
65	2.442E+02	8.429E+00	2.468E-17	252.651
66	2.444E+02	8.443E+00	2.689E-17	252.817
67	2.445E+02	8.457E+00	2.928E-17	252.981
68	2.447E+02	8.470E+00	3.188E-17	253.145
69	2.448E+02	8.484E+00	3.469E-17	253.308
70	2.450E+02	8.498E+00	3.772E-17	253.469
71	2.451E+02	8.511E+00	4.101E-17	253.630
72	2.453E+02	8.525E+00	4.457E-17	253.790
73	2.454E+02	8.538E+00	4.841E-17	253.950
74	2.456E+02	8.552E+00	5.256E-17	254.108
75	2.457E+02	8.565E+00	5.705E-17	254.265
76	2.458E+02	8.579E+00	6.189E-17	254.422
77	2.460E+02	8.592E+00	6.712E-17	254.577

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
78	2.461E+02	8.606E+00	7.275E-17	254.732
79	2.463E+02	8.619E+00	7.883E-17	254.886
80	2.464E+02	8.633E+00	8.539E-17	255.039
81	2.465E+02	8.646E+00	9.245E-17	255.192
82	2.467E+02	8.659E+00	1.001E-16	255.343
83	2.468E+02	8.673E+00	1.082E-16	255.494
84	2.470E+02	8.686E+00	1.171E-16	255.644
85	2.471E+02	8.699E+00	1.266E-16	255.793
86	2.472E+02	8.713E+00	1.368E-16	255.941
87	2.474E+02	8.726E+00	1.477E-16	256.088
88	2.475E+02	8.739E+00	1.595E-16	256.235
89	2.476E+02	8.752E+00	1.722E-16	256.381
90	2.478E+02	8.765E+00	1.858E-16	256.526
91	2.479E+02	8.778E+00	2.004E-16	256.671
92	2.480E+02	8.792E+00	2.161E-16	256.814
93	2.482E+02	8.805E+00	2.329E-16	256.957
94	2.483E+02	8.818E+00	2.510E-16	257.100
95	2.484E+02	8.831E+00	2.703E-16	257.241
96	2.485E+02	8.844E+00	2.911E-16	257.382
97	2.487E+02	8.857E+00	3.133E-16	257.522
98	2.488E+02	8.870E+00	3.371E-16	257.661
99	2.489E+02	8.883E+00	3.626E-16	257.800
100	2.490E+02	8.896E+00	3.899E-16	257.938
101	2.492E+02	8.909E+00	4.191E-16	258.075
102	2.493E+02	8.922E+00	4.503E-16	258.211
103	2.494E+02	8.934E+00	4.838E-16	258.347
104	2.495E+02	8.947E+00	5.195E-16	258.482
105	2.497E+02	8.960E+00	5.577E-16	258.617
106	2.498E+02	8.973E+00	5.984E-16	258.751
107	2.499E+02	8.986E+00	6.420E-16	258.884
108	2.500E+02	8.998E+00	6.885E-16	259.016
109	2.501E+02	9.011E+00	7.382E-16	259.148
110	2.503E+02	9.024E+00	7.912E-16	259.279
111	2.504E+02	9.037E+00	8.478E-16	259.410
112	2.505E+02	9.049E+00	9.081E-16	259.540
113	2.506E+02	9.062E+00	9.724E-16	259.669
114	2.507E+02	9.075E+00	1.041E-15	259.797
115	2.508E+02	9.087E+00	1.114E-15	259.925
116	2.510E+02	9.100E+00	1.192E-15	260.053
117	2.511E+02	9.113E+00	1.275E-15	260.180
118	2.512E+02	9.125E+00	1.363E-15	260.306

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
119	2.513E+02	9.138E+00	1.457E-15	260.431
120	2.514E+02	9.150E+00	1.557E-15	260.556
121	2.515E+02	9.163E+00	1.663E-15	260.681
122	2.516E+02	9.175E+00	1.776E-15	260.804
123	2.517E+02	9.188E+00	1.896E-15	260.928
124	2.519E+02	9.200E+00	2.024E-15	261.050
125	2.520E+02	9.213E+00	2.160E-15	261.172
126	2.521E+02	9.225E+00	2.304E-15	261.294
127	2.522E+02	9.237E+00	2.457E-15	261.415
128	2.523E+02	9.250E+00	2.620E-15	261.535
129	2.524E+02	9.262E+00	2.792E-15	261.655
130	2.525E+02	9.274E+00	2.975E-15	261.774
131	2.526E+02	9.287E+00	3.170E-15	261.893
132	2.527E+02	9.299E+00	3.376E-15	262.011
133	2.528E+02	9.311E+00	3.595E-15	262.128
134	2.529E+02	9.324E+00	3.826E-15	262.245
135	2.530E+02	9.336E+00	4.072E-15	262.362
136	2.531E+02	9.348E+00	4.332E-15	262.478
137	2.532E+02	9.360E+00	4.608E-15	262.593
138	2.533E+02	9.372E+00	4.900E-15	262.708
139	2.534E+02	9.385E+00	5.210E-15	262.823
140	2.535E+02	9.397E+00	5.537E-15	262.937
141	2.536E+02	9.409E+00	5.884E-15	263.050
142	2.537E+02	9.421E+00	6.250E-15	263.163
143	2.538E+02	9.433E+00	6.638E-15	263.275
144	2.539E+02	9.445E+00	7.048E-15	263.387
145	2.540E+02	9.457E+00	7.482E-15	263.499
146	2.541E+02	9.469E+00	7.941E-15	263.609
147	2.542E+02	9.481E+00	8.426E-15	263.720
148	2.543E+02	9.493E+00	8.938E-15	263.830
149	2.544E+02	9.505E+00	9.479E-15	263.939
150	2.545E+02	9.517E+00	1.005E-14	264.048
151	2.546E+02	9.529E+00	1.065E-14	264.157
152	2.547E+02	9.541E+00	1.129E-14	264.265
153	2.548E+02	9.553E+00	1.196E-14	264.372
154	2.549E+02	9.565E+00	1.267E-14	264.479
155	2.550E+02	9.577E+00	1.342E-14	264.586
156	2.551E+02	9.589E+00	1.421E-14	264.692
157	2.552E+02	9.601E+00	1.504E-14	264.798
158	2.553E+02	9.613E+00	1.592E-14	264.903
159	2.554E+02	9.625E+00	1.685E-14	265.008

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
160	2.555E+02	9.636E+00	1.782E-14	265.112
161	2.556E+02	9.648E+00	1.885E-14	265.216
162	2.557E+02	9.660E+00	1.993E-14	265.319
163	2.558E+02	9.672E+00	2.107E-14	265.422
164	2.558E+02	9.684E+00	2.227E-14	265.525
165	2.559E+02	9.695E+00	2.354E-14	265.627
166	2.560E+02	9.707E+00	2.487E-14	265.729
167	2.561E+02	9.719E+00	2.627E-14	265.830
168	2.562E+02	9.730E+00	2.774E-14	265.931
169	2.563E+02	9.742E+00	2.929E-14	266.032
170	2.564E+02	9.754E+00	3.093E-14	266.132
171	2.565E+02	9.765E+00	3.264E-14	266.232
172	2.566E+02	9.777E+00	3.444E-14	266.331
173	2.566E+02	9.789E+00	3.634E-14	266.430
174	2.567E+02	9.800E+00	3.833E-14	266.528
175	2.568E+02	9.812E+00	4.043E-14	266.626
176	2.569E+02	9.823E+00	4.263E-14	266.724
177	2.570E+02	9.835E+00	4.494E-14	266.821
178	2.571E+02	9.846E+00	4.736E-14	266.918
179	2.572E+02	9.858E+00	4.991E-14	267.015
180	2.572E+02	9.870E+00	5.259E-14	267.111
181	2.573E+02	9.881E+00	5.540E-14	267.206
182	2.574E+02	9.893E+00	5.834E-14	267.302
183	2.575E+02	9.904E+00	6.144E-14	267.397
184	2.576E+02	9.915E+00	6.468E-14	267.491
185	2.577E+02	9.927E+00	6.809E-14	267.586
186	2.577E+02	9.938E+00	7.166E-14	267.680
187	2.578E+02	9.950E+00	7.540E-14	267.773
188	2.579E+02	9.961E+00	7.933E-14	267.866
189	2.580E+02	9.973E+00	8.344E-14	267.959
190	2.581E+02	9.984E+00	8.775E-14	268.052
191	2.581E+02	9.995E+00	9.227E-14	268.144
192	2.582E+02	1.001E+01	9.701E-14	268.235
193	2.583E+02	1.002E+01	1.020E-13	268.327
194	2.584E+02	1.003E+01	1.072E-13	268.418
195	2.585E+02	1.004E+01	1.126E-13	268.508
196	2.585E+02	1.005E+01	1.183E-13	268.599
197	2.586E+02	1.006E+01	1.243E-13	268.689
198	2.587E+02	1.007E+01	1.305E-13	268.778
199	2.588E+02	1.009E+01	1.370E-13	268.868
200	2.589E+02	1.010E+01	1.439E-13	268.957

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
201	2.589E+02	1.011E+01	1.510E-13	269.045
202	2.590E+02	1.012E+01	1.585E-13	269.134
203	2.591E+02	1.013E+01	1.663E-13	269.222
204	2.592E+02	1.014E+01	1.745E-13	269.310
205	2.592E+02	1.015E+01	1.831E-13	269.397
206	2.593E+02	1.016E+01	1.920E-13	269.484
207	2.594E+02	1.018E+01	2.014E-13	269.571
208	2.595E+02	1.019E+01	2.111E-13	269.657
209	2.595E+02	1.020E+01	2.213E-13	269.743
210	2.596E+02	1.021E+01	2.320E-13	269.829
211	2.597E+02	1.022E+01	2.432E-13	269.914
212	2.598E+02	1.023E+01	2.548E-13	270.000
213	2.598E+02	1.024E+01	2.669E-13	270.084
214	2.599E+02	1.025E+01	2.796E-13	270.169
215	2.600E+02	1.026E+01	2.929E-13	270.253
216	2.601E+02	1.028E+01	3.067E-13	270.337
217	2.601E+02	1.029E+01	3.212E-13	270.421
218	2.602E+02	1.030E+01	3.362E-13	270.504
219	2.603E+02	1.031E+01	3.520E-13	270.587
220	2.604E+02	1.032E+01	3.684E-13	270.670
221	2.604E+02	1.033E+01	3.855E-13	270.753
222	2.605E+02	1.034E+01	4.034E-13	270.835
223	2.606E+02	1.035E+01	4.220E-13	270.917
224	2.606E+02	1.036E+01	4.414E-13	270.998
225	2.607E+02	1.037E+01	4.616E-13	271.080
226	2.608E+02	1.039E+01	4.827E-13	271.161
227	2.608E+02	1.040E+01	5.048E-13	271.242
228	2.609E+02	1.041E+01	5.277E-13	271.322
229	2.610E+02	1.042E+01	5.516E-13	271.402
230	2.611E+02	1.043E+01	5.765E-13	271.482
231	2.611E+02	1.044E+01	6.024E-13	271.562
232	2.612E+02	1.045E+01	6.295E-13	271.642
233	2.613E+02	1.046E+01	6.576E-13	271.721
234	2.613E+02	1.047E+01	6.869E-13	271.800
235	2.614E+02	1.048E+01	7.175E-13	271.878
236	2.615E+02	1.049E+01	7.492E-13	271.957
237	2.615E+02	1.050E+01	7.823E-13	272.035
238	2.616E+02	1.052E+01	8.168E-13	272.113
239	2.617E+02	1.053E+01	8.526E-13	272.190
240	2.617E+02	1.054E+01	8.900E-13	272.268
241	2.618E+02	1.055E+01	9.288E-13	272.345

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
242	2.619E+02	1.056E+01	9.692E-13	272.422
243	2.619E+02	1.057E+01	1.011E-12	272.498
244	2.620E+02	1.058E+01	1.055E-12	272.575
245	2.621E+02	1.059E+01	1.100E-12	272.651
246	2.621E+02	1.060E+01	1.148E-12	272.727
247	2.622E+02	1.061E+01	1.197E-12	272.802
248	2.623E+02	1.062E+01	1.248E-12	272.878
249	2.623E+02	1.063E+01	1.301E-12	272.953
250	2.624E+02	1.064E+01	1.357E-12	273.028
251	2.624E+02	1.066E+01	1.414E-12	273.103
252	2.625E+02	1.067E+01	1.474E-12	273.177
253	2.626E+02	1.068E+01	1.536E-12	273.251
254	2.626E+02	1.069E+01	1.600E-12	273.325
255	2.627E+02	1.070E+01	1.667E-12	273.399
256	2.628E+02	1.071E+01	1.737E-12	273.472
257	2.628E+02	1.072E+01	1.809E-12	273.546
258	2.629E+02	1.073E+01	1.884E-12	273.619
259	2.630E+02	1.074E+01	1.962E-12	273.692
260	2.630E+02	1.075E+01	2.043E-12	273.764
261	2.631E+02	1.076E+01	2.127E-12	273.837
262	2.631E+02	1.077E+01	2.214E-12	273.909
263	2.632E+02	1.078E+01	2.305E-12	273.981
264	2.633E+02	1.079E+01	2.399E-12	274.053
265	2.633E+02	1.080E+01	2.497E-12	274.124
266	2.634E+02	1.082E+01	2.598E-12	274.196
267	2.634E+02	1.083E+01	2.703E-12	274.267
268	2.635E+02	1.084E+01	2.812E-12	274.338
269	2.636E+02	1.085E+01	2.926E-12	274.408
270	2.636E+02	1.086E+01	3.043E-12	274.479
271	2.637E+02	1.087E+01	3.165E-12	274.549
272	2.637E+02	1.088E+01	3.291E-12	274.619
273	2.638E+02	1.089E+01	3.422E-12	274.689
274	2.639E+02	1.090E+01	3.558E-12	274.759
275	2.639E+02	1.091E+01	3.699E-12	274.828
276	2.640E+02	1.092E+01	3.845E-12	274.898
277	2.640E+02	1.093E+01	3.996E-12	274.967
278	2.641E+02	1.094E+01	4.153E-12	275.036
279	2.642E+02	1.095E+01	4.316E-12	275.104
280	2.642E+02	1.096E+01	4.485E-12	275.173
281	2.643E+02	1.097E+01	4.660E-12	275.241
282	2.643E+02	1.098E+01	4.841E-12	275.309

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
283	2.644E+02	1.099E+01	5.028E-12	275.377
284	2.644E+02	1.100E+01	5.223E-12	275.445
285	2.645E+02	1.101E+01	5.424E-12	275.512
286	2.646E+02	1.103E+01	5.633E-12	275.580
287	2.646E+02	1.104E+01	5.849E-12	275.647
288	2.647E+02	1.105E+01	6.073E-12	275.714
289	2.647E+02	1.106E+01	6.305E-12	275.781
290	2.648E+02	1.107E+01	6.545E-12	275.847
291	2.648E+02	1.108E+01	6.794E-12	275.914
292	2.649E+02	1.109E+01	7.051E-12	275.980
293	2.649E+02	1.110E+01	7.318E-12	276.046
294	2.650E+02	1.111E+01	7.594E-12	276.112
295	2.651E+02	1.112E+01	7.879E-12	276.178
296	2.651E+02	1.113E+01	8.175E-12	276.243
297	2.652E+02	1.114E+01	8.481E-12	276.309
298	2.652E+02	1.115E+01	8.798E-12	276.374
299	2.653E+02	1.116E+01	9.125E-12	276.439
300	2.653E+02	1.117E+01	9.464E-12	276.504
301	2.654E+02	1.118E+01	9.815E-12	276.569
302	2.654E+02	1.119E+01	1.018E-11	276.633
303	2.655E+02	1.120E+01	1.055E-11	276.698
304	2.655E+02	1.121E+01	1.094E-11	276.762
305	2.656E+02	1.122E+01	1.134E-11	276.826
306	2.657E+02	1.123E+01	1.176E-11	276.890
307	2.657E+02	1.124E+01	1.219E-11	276.954
308	2.658E+02	1.125E+01	1.263E-11	277.017
309	2.658E+02	1.126E+01	1.309E-11	277.080
310	2.659E+02	1.127E+01	1.357E-11	277.144
311	2.659E+02	1.128E+01	1.406E-11	277.207
312	2.660E+02	1.130E+01	1.457E-11	277.270
313	2.660E+02	1.131E+01	1.509E-11	277.332
314	2.661E+02	1.132E+01	1.563E-11	277.395
315	2.661E+02	1.133E+01	1.619E-11	277.457
316	2.662E+02	1.134E+01	1.677E-11	277.520
317	2.662E+02	1.135E+01	1.737E-11	277.582
318	2.663E+02	1.136E+01	1.799E-11	277.644
319	2.663E+02	1.137E+01	1.863E-11	277.706
320	2.664E+02	1.138E+01	1.929E-11	277.767
321	2.664E+02	1.139E+01	1.997E-11	277.829
322	2.665E+02	1.140E+01	2.068E-11	277.890
323	2.665E+02	1.141E+01	2.140E-11	277.952

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
324	2.666E+02	1.142E+01	2.216E-11	278.013
325	2.666E+02	1.143E+01	2.293E-11	278.074
326	2.667E+02	1.144E+01	2.374E-11	278.134
327	2.667E+02	1.145E+01	2.456E-11	278.195
328	2.668E+02	1.146E+01	2.542E-11	278.256
329	2.668E+02	1.147E+01	2.630E-11	278.316
330	2.669E+02	1.148E+01	2.721E-11	278.376
331	2.669E+02	1.149E+01	2.816E-11	278.436
332	2.670E+02	1.150E+01	2.913E-11	278.496
333	2.670E+02	1.151E+01	3.013E-11	278.556
334	2.671E+02	1.152E+01	3.117E-11	278.616
335	2.671E+02	1.153E+01	3.224E-11	278.675
336	2.672E+02	1.154E+01	3.334E-11	278.735
337	2.672E+02	1.155E+01	3.448E-11	278.794
338	2.673E+02	1.156E+01	3.565E-11	278.853
339	2.673E+02	1.157E+01	3.687E-11	278.912
340	2.674E+02	1.158E+01	3.812E-11	278.971
341	2.674E+02	1.159E+01	3.941E-11	279.030
342	2.675E+02	1.160E+01	4.074E-11	279.088
343	2.675E+02	1.161E+01	4.211E-11	279.147
344	2.676E+02	1.162E+01	4.353E-11	279.205
345	2.676E+02	1.163E+01	4.499E-11	279.263
346	2.677E+02	1.164E+01	4.650E-11	279.321
347	2.677E+02	1.165E+01	4.806E-11	279.379
348	2.678E+02	1.166E+01	4.966E-11	279.437
349	2.678E+02	1.167E+01	5.132E-11	279.495
350	2.679E+02	1.168E+01	5.302E-11	279.552
351	2.679E+02	1.169E+01	5.478E-11	279.610
352	2.680E+02	1.170E+01	5.659E-11	279.667
353	2.680E+02	1.171E+01	5.846E-11	279.724
354	2.681E+02	1.173E+01	6.039E-11	279.781
355	2.681E+02	1.174E+01	6.238E-11	279.838
356	2.681E+02	1.175E+01	6.443E-11	279.895
357	2.682E+02	1.176E+01	6.654E-11	279.952
358	2.682E+02	1.177E+01	6.872E-11	280.008
359	2.683E+02	1.178E+01	7.096E-11	280.065
360	2.683E+02	1.179E+01	7.327E-11	280.121
361	2.684E+02	1.180E+01	7.566E-11	280.177
362	2.684E+02	1.181E+01	7.811E-11	280.233
363	2.685E+02	1.182E+01	8.064E-11	280.289
364	2.685E+02	1.183E+01	8.325E-11	280.345

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
365	2.686E+02	1.184E+01	8.594E-11	280.401
366	2.686E+02	1.185E+01	8.870E-11	280.457
367	2.687E+02	1.186E+01	9.155E-11	280.512
368	2.687E+02	1.187E+01	9.449E-11	280.567
369	2.687E+02	1.188E+01	9.752E-11	280.623
370	2.688E+02	1.189E+01	1.006E-10	280.678
371	2.688E+02	1.190E+01	1.038E-10	280.733
372	2.689E+02	1.191E+01	1.071E-10	280.788
373	2.689E+02	1.192E+01	1.106E-10	280.843
374	2.690E+02	1.193E+01	1.141E-10	280.897
375	2.690E+02	1.194E+01	1.177E-10	280.952
376	2.691E+02	1.195E+01	1.214E-10	281.007
377	2.691E+02	1.196E+01	1.252E-10	281.061
378	2.691E+02	1.197E+01	1.292E-10	281.115
379	2.692E+02	1.198E+01	1.332E-10	281.169
380	2.692E+02	1.199E+01	1.374E-10	281.223
381	2.693E+02	1.200E+01	1.417E-10	281.277
382	2.693E+02	1.201E+01	1.461E-10	281.331
383	2.694E+02	1.202E+01	1.507E-10	281.385
384	2.694E+02	1.203E+01	1.554E-10	281.439
385	2.695E+02	1.204E+01	1.602E-10	281.492
386	2.695E+02	1.205E+01	1.652E-10	281.546
387	2.695E+02	1.206E+01	1.703E-10	281.599
388	2.696E+02	1.207E+01	1.755E-10	281.652
389	2.696E+02	1.208E+01	1.809E-10	281.705
390	2.697E+02	1.209E+01	1.865E-10	281.758
391	2.697E+02	1.210E+01	1.922E-10	281.811
392	2.698E+02	1.211E+01	1.981E-10	281.864
393	2.698E+02	1.212E+01	2.042E-10	281.916
394	2.698E+02	1.213E+01	2.104E-10	281.969
395	2.699E+02	1.214E+01	2.169E-10	282.022
396	2.699E+02	1.215E+01	2.235E-10	282.074
397	2.700E+02	1.216E+01	2.303E-10	282.126
398	2.700E+02	1.217E+01	2.372E-10	282.178
399	2.700E+02	1.218E+01	2.444E-10	282.230
400	2.701E+02	1.219E+01	2.518E-10	282.282
401	2.701E+02	1.220E+01	2.594E-10	282.334
402	2.702E+02	1.221E+01	2.672E-10	282.386
403	2.702E+02	1.222E+01	2.753E-10	282.438
404	2.703E+02	1.223E+01	2.835E-10	282.489
405	2.703E+02	1.224E+01	2.920E-10	282.541

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
406	2.703E+02	1.225E+01	3.008E-10	282.592
407	2.704E+02	1.226E+01	3.098E-10	282.644
408	2.704E+02	1.227E+01	3.190E-10	282.695
409	2.705E+02	1.228E+01	3.285E-10	282.746
410	2.705E+02	1.229E+01	3.382E-10	282.797
411	2.705E+02	1.230E+01	3.483E-10	282.848
412	2.706E+02	1.231E+01	3.586E-10	282.899
413	2.706E+02	1.232E+01	3.692E-10	282.949
414	2.707E+02	1.233E+01	3.801E-10	283.000
415	2.707E+02	1.234E+01	3.912E-10	283.051
416	2.707E+02	1.235E+01	4.028E-10	283.101
417	2.708E+02	1.236E+01	4.146E-10	283.151
418	2.708E+02	1.237E+01	4.267E-10	283.202
419	2.709E+02	1.238E+01	4.392E-10	283.252
420	2.709E+02	1.239E+01	4.520E-10	283.302
421	2.709E+02	1.240E+01	4.652E-10	283.352
422	2.710E+02	1.242E+01	4.787E-10	283.402
423	2.710E+02	1.243E+01	4.926E-10	283.452
424	2.711E+02	1.244E+01	5.069E-10	283.501
425	2.711E+02	1.245E+01	5.216E-10	283.551
426	2.711E+02	1.246E+01	5.366E-10	283.600
427	2.712E+02	1.247E+01	5.521E-10	283.650
428	2.712E+02	1.248E+01	5.680E-10	283.699
429	2.713E+02	1.249E+01	5.843E-10	283.748
430	2.713E+02	1.250E+01	6.011E-10	283.798
431	2.713E+02	1.251E+01	6.183E-10	283.847
432	2.714E+02	1.252E+01	6.360E-10	283.896
433	2.714E+02	1.253E+01	6.542E-10	283.945
434	2.715E+02	1.254E+01	6.728E-10	283.993
435	2.715E+02	1.255E+01	6.920E-10	284.042
436	2.715E+02	1.256E+01	7.116E-10	284.091
437	2.716E+02	1.257E+01	7.318E-10	284.139
438	2.716E+02	1.258E+01	7.525E-10	284.188
439	2.716E+02	1.259E+01	7.738E-10	284.236
440	2.717E+02	1.260E+01	7.956E-10	284.285
441	2.717E+02	1.261E+01	8.181E-10	284.333
442	2.718E+02	1.262E+01	8.411E-10	284.381
443	2.718E+02	1.263E+01	8.647E-10	284.429
444	2.718E+02	1.264E+01	8.889E-10	284.477
445	2.719E+02	1.265E+01	9.138E-10	284.525
446	2.719E+02	1.266E+01	9.393E-10	284.573

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
447	2.720E+02	1.267E+01	9.655E-10	284.620
448	2.720E+02	1.268E+01	9.924E-10	284.668
449	2.720E+02	1.269E+01	1.020E-09	284.716
450	2.721E+02	1.270E+01	1.048E-09	284.763
451	2.721E+02	1.271E+01	1.077E-09	284.810
452	2.721E+02	1.272E+01	1.107E-09	284.858
453	2.722E+02	1.273E+01	1.138E-09	284.905
454	2.722E+02	1.274E+01	1.169E-09	284.952
455	2.722E+02	1.275E+01	1.201E-09	284.999
456	2.723E+02	1.276E+01	1.234E-09	285.046
457	2.723E+02	1.277E+01	1.268E-09	285.093
458	2.724E+02	1.278E+01	1.303E-09	285.140
459	2.724E+02	1.279E+01	1.338E-09	285.186
460	2.724E+02	1.280E+01	1.375E-09	285.233
461	2.725E+02	1.281E+01	1.412E-09	285.280
462	2.725E+02	1.282E+01	1.451E-09	285.326
463	2.725E+02	1.283E+01	1.490E-09	285.373
464	2.726E+02	1.284E+01	1.531E-09	285.419
465	2.726E+02	1.285E+01	1.572E-09	285.465
466	2.727E+02	1.286E+01	1.615E-09	285.511
467	2.727E+02	1.287E+01	1.658E-09	285.557
468	2.727E+02	1.288E+01	1.703E-09	285.603
469	2.728E+02	1.289E+01	1.749E-09	285.649
470	2.728E+02	1.290E+01	1.796E-09	285.695
471	2.728E+02	1.291E+01	1.844E-09	285.741
472	2.729E+02	1.292E+01	1.893E-09	285.787
473	2.729E+02	1.293E+01	1.944E-09	285.832
474	2.729E+02	1.294E+01	1.996E-09	285.878
475	2.730E+02	1.295E+01	2.049E-09	285.923
476	2.730E+02	1.296E+01	2.103E-09	285.969
477	2.730E+02	1.297E+01	2.159E-09	286.014
478	2.731E+02	1.298E+01	2.216E-09	286.059
479	2.731E+02	1.299E+01	2.275E-09	286.104
480	2.731E+02	1.300E+01	2.335E-09	286.149
481	2.732E+02	1.301E+01	2.397E-09	286.194
482	2.732E+02	1.302E+01	2.460E-09	286.239
483	2.733E+02	1.303E+01	2.524E-09	286.284
484	2.733E+02	1.304E+01	2.591E-09	286.329
485	2.733E+02	1.305E+01	2.659E-09	286.374
486	2.734E+02	1.306E+01	2.728E-09	286.418
487	2.734E+02	1.307E+01	2.799E-09	286.463

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
488	2.734E+02	1.308E+01	2.872E-09	286.507
489	2.735E+02	1.309E+01	2.947E-09	286.552
490	2.735E+02	1.310E+01	3.024E-09	286.596
491	2.735E+02	1.311E+01	3.102E-09	286.640
492	2.736E+02	1.312E+01	3.183E-09	286.685
493	2.736E+02	1.313E+01	3.265E-09	286.729
494	2.736E+02	1.314E+01	3.349E-09	286.773
495	2.737E+02	1.315E+01	3.436E-09	286.817
496	2.737E+02	1.316E+01	3.524E-09	286.861
497	2.737E+02	1.317E+01	3.615E-09	286.904
498	2.738E+02	1.318E+01	3.708E-09	286.948
499	2.738E+02	1.319E+01	3.803E-09	286.992
500	2.738E+02	1.321E+01	3.900E-09	287.035
501	2.739E+02	1.322E+01	4.000E-09	287.079
502	2.739E+02	1.323E+01	4.102E-09	287.122
503	2.739E+02	1.324E+01	4.206E-09	287.166
504	2.740E+02	1.325E+01	4.313E-09	287.209
505	2.740E+02	1.326E+01	4.422E-09	287.252
506	2.740E+02	1.327E+01	4.534E-09	287.295
507	2.741E+02	1.328E+01	4.649E-09	287.339
508	2.741E+02	1.329E+01	4.767E-09	287.382
509	2.741E+02	1.330E+01	4.887E-09	287.425
510	2.742E+02	1.331E+01	5.010E-09	287.467
511	2.742E+02	1.332E+01	5.136E-09	287.510
512	2.742E+02	1.333E+01	5.265E-09	287.553
513	2.743E+02	1.334E+01	5.396E-09	287.596
514	2.743E+02	1.335E+01	5.531E-09	287.638
515	2.743E+02	1.336E+01	5.670E-09	287.681
516	2.744E+02	1.337E+01	5.811E-09	287.723
517	2.744E+02	1.338E+01	5.956E-09	287.766
518	2.744E+02	1.339E+01	6.104E-09	287.808
519	2.745E+02	1.340E+01	6.255E-09	287.850
520	2.745E+02	1.341E+01	6.410E-09	287.892
521	2.745E+02	1.342E+01	6.569E-09	287.935
522	2.745E+02	1.343E+01	6.731E-09	287.977
523	2.746E+02	1.344E+01	6.897E-09	288.019
524	2.746E+02	1.345E+01	7.067E-09	288.061
525	2.746E+02	1.346E+01	7.241E-09	288.102
526	2.747E+02	1.347E+01	7.418E-09	288.144
527	2.747E+02	1.348E+01	7.600E-09	288.186
528	2.747E+02	1.349E+01	7.786E-09	288.228

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
529	2.748E+02	1.350E+01	7.976E-09	288.269
530	2.748E+02	1.351E+01	8.171E-09	288.311
531	2.748E+02	1.352E+01	8.370E-09	288.352
532	2.749E+02	1.353E+01	8.573E-09	288.393
533	2.749E+02	1.354E+01	8.781E-09	288.435
534	2.749E+02	1.355E+01	8.994E-09	288.476
535	2.750E+02	1.356E+01	9.212E-09	288.517
536	2.750E+02	1.357E+01	9.434E-09	288.558
537	2.750E+02	1.358E+01	9.662E-09	288.599
538	2.751E+02	1.359E+01	9.894E-09	288.640
539	2.751E+02	1.360E+01	1.013E-08	288.681
540	2.751E+02	1.361E+01	1.038E-08	288.722
541	2.751E+02	1.362E+01	1.062E-08	288.763
542	2.752E+02	1.363E+01	1.088E-08	288.804
543	2.752E+02	1.364E+01	1.114E-08	288.844
544	2.752E+02	1.365E+01	1.140E-08	288.885
545	2.753E+02	1.366E+01	1.168E-08	288.925
546	2.753E+02	1.367E+01	1.195E-08	288.966
547	2.753E+02	1.368E+01	1.224E-08	289.006
548	2.754E+02	1.369E+01	1.253E-08	289.046
549	2.754E+02	1.370E+01	1.282E-08	289.087
550	2.754E+02	1.371E+01	1.313E-08	289.127
551	2.754E+02	1.372E+01	1.344E-08	289.167
552	2.755E+02	1.373E+01	1.375E-08	289.207
553	2.755E+02	1.374E+01	1.408E-08	289.247
554	2.755E+02	1.375E+01	1.441E-08	289.287
555	2.756E+02	1.376E+01	1.475E-08	289.327
556	2.756E+02	1.377E+01	1.509E-08	289.367
557	2.756E+02	1.378E+01	1.544E-08	289.407
558	2.757E+02	1.379E+01	1.580E-08	289.446
559	2.757E+02	1.380E+01	1.617E-08	289.486
560	2.757E+02	1.381E+01	1.655E-08	289.525
561	2.757E+02	1.382E+01	1.693E-08	289.565
562	2.758E+02	1.383E+01	1.732E-08	289.604
563	2.758E+02	1.384E+01	1.773E-08	289.644
564	2.758E+02	1.385E+01	1.814E-08	289.683
565	2.759E+02	1.386E+01	1.855E-08	289.722
566	2.759E+02	1.387E+01	1.898E-08	289.762
567	2.759E+02	1.388E+01	1.942E-08	289.801
568	2.759E+02	1.389E+01	1.986E-08	289.840
569	2.760E+02	1.390E+01	2.032E-08	289.879

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
570	2.760E+02	1.391E+01	2.079E-08	289.918
571	2.760E+02	1.392E+01	2.126E-08	289.957
572	2.761E+02	1.393E+01	2.175E-08	289.996
573	2.761E+02	1.394E+01	2.224E-08	290.034
574	2.761E+02	1.395E+01	2.275E-08	290.073
575	2.761E+02	1.396E+01	2.327E-08	290.112
576	2.762E+02	1.397E+01	2.379E-08	290.150
577	2.762E+02	1.398E+01	2.433E-08	290.189
578	2.762E+02	1.399E+01	2.488E-08	290.227
579	2.763E+02	1.400E+01	2.544E-08	290.266
580	2.763E+02	1.401E+01	2.602E-08	290.304
581	2.763E+02	1.403E+01	2.660E-08	290.342
582	2.763E+02	1.404E+01	2.720E-08	290.381
583	2.764E+02	1.405E+01	2.781E-08	290.419
584	2.764E+02	1.406E+01	2.844E-08	290.457
585	2.764E+02	1.407E+01	2.907E-08	290.495
586	2.765E+02	1.408E+01	2.972E-08	290.533
587	2.765E+02	1.409E+01	3.038E-08	290.571
588	2.765E+02	1.410E+01	3.106E-08	290.609
589	2.765E+02	1.411E+01	3.175E-08	290.647
590	2.766E+02	1.412E+01	3.246E-08	290.684
591	2.766E+02	1.413E+01	3.318E-08	290.722
592	2.766E+02	1.414E+01	3.391E-08	290.760
593	2.767E+02	1.415E+01	3.466E-08	290.797
594	2.767E+02	1.416E+01	3.543E-08	290.835
595	2.767E+02	1.417E+01	3.621E-08	290.872
596	2.767E+02	1.418E+01	3.700E-08	290.910
597	2.768E+02	1.419E+01	3.781E-08	290.947
598	2.768E+02	1.420E+01	3.864E-08	290.984
599	2.768E+02	1.421E+01	3.949E-08	291.022
600	2.768E+02	1.422E+01	4.035E-08	291.059
601	2.769E+02	1.423E+01	4.123E-08	291.096
602	2.769E+02	1.424E+01	4.213E-08	291.133
603	2.769E+02	1.425E+01	4.305E-08	291.170
604	2.769E+02	1.426E+01	4.399E-08	291.207
605	2.770E+02	1.427E+01	4.494E-08	291.244
606	2.770E+02	1.428E+01	4.591E-08	291.281
607	2.770E+02	1.429E+01	4.691E-08	291.318
608	2.771E+02	1.430E+01	4.792E-08	291.354
609	2.771E+02	1.431E+01	4.895E-08	291.391
610	2.771E+02	1.432E+01	5.001E-08	291.428

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
611	2.771E+02	1.433E+01	5.108E-08	291.464
612	2.772E+02	1.434E+01	5.218E-08	291.501
613	2.772E+02	1.435E+01	5.330E-08	291.537
614	2.772E+02	1.436E+01	5.444E-08	291.574
615	2.772E+02	1.437E+01	5.560E-08	291.610
616	2.773E+02	1.438E+01	5.678E-08	291.646
617	2.773E+02	1.439E+01	5.799E-08	291.682
618	2.773E+02	1.440E+01	5.923E-08	291.719
619	2.773E+02	1.441E+01	6.049E-08	291.755
620	2.774E+02	1.442E+01	6.177E-08	291.791
621	2.774E+02	1.443E+01	6.308E-08	291.827
622	2.774E+02	1.444E+01	6.441E-08	291.863
623	2.774E+02	1.445E+01	6.577E-08	291.899
624	2.775E+02	1.446E+01	6.715E-08	291.935
625	2.775E+02	1.447E+01	6.857E-08	291.970
626	2.775E+02	1.448E+01	7.001E-08	292.006
627	2.776E+02	1.449E+01	7.148E-08	292.042
628	2.776E+02	1.450E+01	7.297E-08	292.078
629	2.776E+02	1.451E+01	7.450E-08	292.113
630	2.776E+02	1.452E+01	7.605E-08	292.149
631	2.777E+02	1.453E+01	7.764E-08	292.184
632	2.777E+02	1.454E+01	7.926E-08	292.220
633	2.777E+02	1.455E+01	8.090E-08	292.255
634	2.777E+02	1.456E+01	8.258E-08	292.290
635	2.778E+02	1.457E+01	8.429E-08	292.326
636	2.778E+02	1.458E+01	8.604E-08	292.361
637	2.778E+02	1.459E+01	8.782E-08	292.396
638	2.778E+02	1.460E+01	8.963E-08	292.431
639	2.779E+02	1.461E+01	9.147E-08	292.466
640	2.779E+02	1.462E+01	9.336E-08	292.501
641	2.779E+02	1.463E+01	9.527E-08	292.536
642	2.779E+02	1.464E+01	9.723E-08	292.571
643	2.780E+02	1.465E+01	9.922E-08	292.606
644	2.780E+02	1.466E+01	1.012E-07	292.641
645	2.780E+02	1.467E+01	1.033E-07	292.676
646	2.780E+02	1.468E+01	1.054E-07	292.711
647	2.781E+02	1.469E+01	1.076E-07	292.745
648	2.781E+02	1.470E+01	1.098E-07	292.780
649	2.781E+02	1.471E+01	1.120E-07	292.814
650	2.781E+02	1.472E+01	1.142E-07	292.849
651	2.782E+02	1.473E+01	1.166E-07	292.883

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
652	2.782E+02	1.474E+01	1.189E-07	292.918
653	2.782E+02	1.475E+01	1.213E-07	292.952
654	2.782E+02	1.476E+01	1.238E-07	292.987
655	2.782E+02	1.477E+01	1.262E-07	293.021
656	2.783E+02	1.478E+01	1.288E-07	293.055
657	2.783E+02	1.479E+01	1.314E-07	293.089
658	2.783E+02	1.480E+01	1.340E-07	293.123
659	2.783E+02	1.481E+01	1.367E-07	293.157
660	2.784E+02	1.482E+01	1.394E-07	293.191
661	2.784E+02	1.483E+01	1.422E-07	293.225
662	2.784E+02	1.484E+01	1.450E-07	293.259
663	2.784E+02	1.485E+01	1.479E-07	293.293
664	2.785E+02	1.486E+01	1.508E-07	293.327
665	2.785E+02	1.487E+01	1.538E-07	293.361
666	2.785E+02	1.488E+01	1.568E-07	293.395
667	2.785E+02	1.489E+01	1.599E-07	293.428
668	2.786E+02	1.490E+01	1.631E-07	293.462
669	2.786E+02	1.491E+01	1.663E-07	293.496
670	2.786E+02	1.492E+01	1.696E-07	293.529
671	2.786E+02	1.493E+01	1.729E-07	293.563
672	2.787E+02	1.494E+01	1.763E-07	293.596
673	2.787E+02	1.495E+01	1.798E-07	293.629
674	2.787E+02	1.496E+01	1.833E-07	293.663
675	2.787E+02	1.497E+01	1.868E-07	293.696
676	2.787E+02	1.498E+01	1.905E-07	293.729
677	2.788E+02	1.499E+01	1.942E-07	293.763
678	2.788E+02	1.500E+01	1.980E-07	293.796
679	2.788E+02	1.501E+01	2.018E-07	293.829
680	2.788E+02	1.502E+01	2.057E-07	293.862
681	2.789E+02	1.503E+01	2.097E-07	293.895
682	2.789E+02	1.504E+01	2.138E-07	293.928
683	2.789E+02	1.505E+01	2.179E-07	293.961
684	2.789E+02	1.506E+01	2.221E-07	293.994
685	2.790E+02	1.507E+01	2.263E-07	294.027
686	2.790E+02	1.508E+01	2.307E-07	294.059
687	2.790E+02	1.509E+01	2.351E-07	294.092
688	2.790E+02	1.510E+01	2.396E-07	294.125
689	2.790E+02	1.511E+01	2.442E-07	294.158
690	2.791E+02	1.512E+01	2.489E-07	294.190
691	2.791E+02	1.513E+01	2.536E-07	294.223
692	2.791E+02	1.514E+01	2.584E-07	294.255

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
693	2.791E+02	1.515E+01	2.633E-07	294.288
694	2.792E+02	1.516E+01	2.683E-07	294.320
695	2.792E+02	1.517E+01	2.734E-07	294.353
696	2.792E+02	1.518E+01	2.786E-07	294.385
697	2.792E+02	1.519E+01	2.839E-07	294.417
698	2.792E+02	1.520E+01	2.892E-07	294.450
699	2.793E+02	1.521E+01	2.947E-07	294.482
700	2.793E+02	1.522E+01	3.002E-07	294.514
701	2.793E+02	1.523E+01	3.059E-07	294.546
702	2.793E+02	1.524E+01	3.116E-07	294.578
703	2.794E+02	1.525E+01	3.174E-07	294.610
704	2.794E+02	1.526E+01	3.234E-07	294.642
705	2.794E+02	1.527E+01	3.294E-07	294.674
706	2.794E+02	1.528E+01	3.356E-07	294.706
707	2.794E+02	1.529E+01	3.418E-07	294.738
708	2.795E+02	1.530E+01	3.482E-07	294.770
709	2.795E+02	1.531E+01	3.546E-07	294.801
710	2.795E+02	1.532E+01	3.612E-07	294.833
711	2.795E+02	1.533E+01	3.679E-07	294.865
712	2.796E+02	1.534E+01	3.747E-07	294.896
713	2.796E+02	1.535E+01	3.816E-07	294.928
714	2.796E+02	1.536E+01	3.886E-07	294.960
715	2.796E+02	1.537E+01	3.958E-07	294.991
716	2.796E+02	1.538E+01	4.031E-07	295.023
717	2.797E+02	1.539E+01	4.105E-07	295.054
718	2.797E+02	1.540E+01	4.180E-07	295.085
719	2.797E+02	1.541E+01	4.256E-07	295.117
720	2.797E+02	1.542E+01	4.334E-07	295.148
721	2.797E+02	1.543E+01	4.413E-07	295.179
722	2.798E+02	1.544E+01	4.494E-07	295.211
723	2.798E+02	1.545E+01	4.576E-07	295.242
724	2.798E+02	1.546E+01	4.659E-07	295.273
725	2.798E+02	1.547E+01	4.743E-07	295.304
726	2.799E+02	1.548E+01	4.829E-07	295.335
727	2.799E+02	1.549E+01	4.917E-07	295.366
728	2.799E+02	1.550E+01	5.005E-07	295.397
729	2.799E+02	1.551E+01	5.096E-07	295.428
730	2.799E+02	1.552E+01	5.188E-07	295.459
731	2.800E+02	1.553E+01	5.281E-07	295.490
732	2.800E+02	1.554E+01	5.376E-07	295.521
733	2.800E+02	1.555E+01	5.472E-07	295.551

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
734	2.800E+02	1.556E+01	5.570E-07	295.582
735	2.800E+02	1.557E+01	5.670E-07	295.613
736	2.801E+02	1.558E+01	5.771E-07	295.643
737	2.801E+02	1.559E+01	5.874E-07	295.674
738	2.801E+02	1.560E+01	5.979E-07	295.704
739	2.801E+02	1.561E+01	6.085E-07	295.735
740	2.801E+02	1.562E+01	6.193E-07	295.766
741	2.802E+02	1.563E+01	6.303E-07	295.796
742	2.802E+02	1.564E+01	6.414E-07	295.826
743	2.802E+02	1.565E+01	6.528E-07	295.857
744	2.802E+02	1.566E+01	6.643E-07	295.887
745	2.802E+02	1.567E+01	6.760E-07	295.917
746	2.803E+02	1.568E+01	6.879E-07	295.948
747	2.803E+02	1.569E+01	7.000E-07	295.978
748	2.803E+02	1.570E+01	7.123E-07	296.008
749	2.803E+02	1.571E+01	7.248E-07	296.038
750	2.803E+02	1.572E+01	7.375E-07	296.068
751	2.804E+02	1.573E+01	7.504E-07	296.098
752	2.804E+02	1.574E+01	7.635E-07	296.128
753	2.804E+02	1.575E+01	7.768E-07	296.158
754	2.804E+02	1.576E+01	7.904E-07	296.188
755	2.804E+02	1.577E+01	8.041E-07	296.218
756	2.805E+02	1.578E+01	8.181E-07	296.248
757	2.805E+02	1.579E+01	8.323E-07	296.278
758	2.805E+02	1.580E+01	8.467E-07	296.307
759	2.805E+02	1.581E+01	8.613E-07	296.337
760	2.805E+02	1.582E+01	8.762E-07	296.367
761	2.806E+02	1.583E+01	8.913E-07	296.397
762	2.806E+02	1.584E+01	9.066E-07	296.426
763	2.806E+02	1.585E+01	9.222E-07	296.456
764	2.806E+02	1.586E+01	9.381E-07	296.485
765	2.806E+02	1.587E+01	9.541E-07	296.515
766	2.807E+02	1.588E+01	9.705E-07	296.544
767	2.807E+02	1.589E+01	9.871E-07	296.574
768	2.807E+02	1.590E+01	1.004E-06	296.603
769	2.807E+02	1.591E+01	1.021E-06	296.633
770	2.807E+02	1.592E+01	1.038E-06	296.662
771	2.808E+02	1.593E+01	1.056E-06	296.691
772	2.808E+02	1.594E+01	1.074E-06	296.720
773	2.808E+02	1.595E+01	1.092E-06	296.750
774	2.808E+02	1.596E+01	1.111E-06	296.779

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
775	2.808E+02	1.597E+01	1.130E-06	296.808
776	2.809E+02	1.598E+01	1.149E-06	296.837
777	2.809E+02	1.599E+01	1.168E-06	296.866
778	2.809E+02	1.600E+01	1.188E-06	296.895
779	2.809E+02	1.601E+01	1.208E-06	296.924
780	2.809E+02	1.602E+01	1.228E-06	296.953
781	2.809E+02	1.603E+01	1.248E-06	296.982
782	2.810E+02	1.604E+01	1.269E-06	297.011
783	2.810E+02	1.605E+01	1.291E-06	297.040
784	2.810E+02	1.606E+01	1.312E-06	297.069
785	2.810E+02	1.607E+01	1.334E-06	297.097
786	2.810E+02	1.608E+01	1.356E-06	297.126
787	2.811E+02	1.609E+01	1.379E-06	297.155
788	2.811E+02	1.610E+01	1.402E-06	297.183
789	2.811E+02	1.611E+01	1.425E-06	297.212
790	2.811E+02	1.612E+01	1.449E-06	297.241
791	2.811E+02	1.613E+01	1.473E-06	297.269
792	2.812E+02	1.614E+01	1.497E-06	297.298
793	2.812E+02	1.615E+01	1.522E-06	297.326
794	2.812E+02	1.616E+01	1.547E-06	297.355
795	2.812E+02	1.617E+01	1.572E-06	297.383
796	2.812E+02	1.618E+01	1.598E-06	297.412
797	2.812E+02	1.619E+01	1.624E-06	297.440
798	2.813E+02	1.620E+01	1.651E-06	297.468
799	2.813E+02	1.621E+01	1.678E-06	297.497
800	2.813E+02	1.622E+01	1.705E-06	297.525
801	2.813E+02	1.623E+01	1.733E-06	297.553
802	2.813E+02	1.624E+01	1.761E-06	297.581
803	2.814E+02	1.625E+01	1.790E-06	297.609
804	2.814E+02	1.626E+01	1.819E-06	297.637
805	2.814E+02	1.627E+01	1.848E-06	297.665
806	2.814E+02	1.628E+01	1.878E-06	297.694
807	2.814E+02	1.629E+01	1.909E-06	297.722
808	2.814E+02	1.630E+01	1.940E-06	297.750
809	2.815E+02	1.631E+01	1.971E-06	297.777
810	2.815E+02	1.632E+01	2.003E-06	297.805
811	2.815E+02	1.633E+01	2.035E-06	297.833
812	2.815E+02	1.634E+01	2.068E-06	297.861
813	2.815E+02	1.635E+01	2.101E-06	297.889
814	2.816E+02	1.636E+01	2.134E-06	297.917
815	2.816E+02	1.637E+01	2.169E-06	297.944

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
816	2.816E+02	1.638E+01	2.203E-06	297.972
817	2.816E+02	1.639E+01	2.238E-06	298.000
818	2.816E+02	1.640E+01	2.274E-06	298.027
819	2.816E+02	1.641E+01	2.310E-06	298.055
820	2.817E+02	1.642E+01	2.347E-06	298.083
821	2.817E+02	1.643E+01	2.384E-06	298.110
822	2.817E+02	1.644E+01	2.422E-06	298.138
823	2.817E+02	1.645E+01	2.460E-06	298.165
824	2.817E+02	1.646E+01	2.499E-06	298.193
825	2.817E+02	1.647E+01	2.539E-06	298.220
826	2.818E+02	1.648E+01	2.579E-06	298.247
827	2.818E+02	1.649E+01	2.620E-06	298.275
828	2.818E+02	1.650E+01	2.661E-06	298.302
829	2.818E+02	1.651E+01	2.703E-06	298.329
830	2.818E+02	1.652E+01	2.745E-06	298.357
831	2.819E+02	1.653E+01	2.788E-06	298.384
832	2.819E+02	1.654E+01	2.832E-06	298.411
833	2.819E+02	1.655E+01	2.876E-06	298.438
834	2.819E+02	1.656E+01	2.921E-06	298.465
835	2.819E+02	1.657E+01	2.966E-06	298.492
836	2.819E+02	1.658E+01	3.012E-06	298.519
837	2.820E+02	1.659E+01	3.059E-06	298.546
838	2.820E+02	1.660E+01	3.107E-06	298.573
839	2.820E+02	1.661E+01	3.155E-06	298.600
840	2.820E+02	1.662E+01	3.204E-06	298.627
841	2.820E+02	1.663E+01	3.253E-06	298.654
842	2.820E+02	1.664E+01	3.303E-06	298.681
843	2.821E+02	1.665E+01	3.354E-06	298.708
844	2.821E+02	1.666E+01	3.406E-06	298.735
845	2.821E+02	1.667E+01	3.458E-06	298.762
846	2.821E+02	1.668E+01	3.511E-06	298.788
847	2.821E+02	1.669E+01	3.565E-06	298.815
848	2.821E+02	1.670E+01	3.620E-06	298.842
849	2.822E+02	1.671E+01	3.675E-06	298.868
850	2.822E+02	1.672E+01	3.731E-06	298.895
851	2.822E+02	1.673E+01	3.788E-06	298.922
852	2.822E+02	1.674E+01	3.846E-06	298.948
853	2.822E+02	1.675E+01	3.905E-06	298.975
854	2.822E+02	1.676E+01	3.964E-06	299.001
855	2.823E+02	1.677E+01	4.024E-06	299.028
856	2.823E+02	1.678E+01	4.085E-06	299.054

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
857	2.823E+02	1.679E+01	4.147E-06	299.080
858	2.823E+02	1.680E+01	4.209E-06	299.107
859	2.823E+02	1.681E+01	4.273E-06	299.133
860	2.823E+02	1.682E+01	4.337E-06	299.159
861	2.824E+02	1.683E+01	4.403E-06	299.186
862	2.824E+02	1.684E+01	4.469E-06	299.212
863	2.824E+02	1.685E+01	4.536E-06	299.238
864	2.824E+02	1.686E+01	4.604E-06	299.264
865	2.824E+02	1.687E+01	4.673E-06	299.291
866	2.824E+02	1.688E+01	4.743E-06	299.317
867	2.825E+02	1.689E+01	4.814E-06	299.343
868	2.825E+02	1.690E+01	4.885E-06	299.369
869	2.825E+02	1.691E+01	4.958E-06	299.395
870	2.825E+02	1.692E+01	5.032E-06	299.421
871	2.825E+02	1.693E+01	5.107E-06	299.447
872	2.825E+02	1.694E+01	5.183E-06	299.473
873	2.826E+02	1.695E+01	5.259E-06	299.499
874	2.826E+02	1.696E+01	5.337E-06	299.525
875	2.826E+02	1.697E+01	5.416E-06	299.551
876	2.826E+02	1.698E+01	5.496E-06	299.576
877	2.826E+02	1.699E+01	5.577E-06	299.602
878	2.826E+02	1.700E+01	5.659E-06	299.628
879	2.826E+02	1.701E+01	5.742E-06	299.654
880	2.827E+02	1.702E+01	5.827E-06	299.680
881	2.827E+02	1.703E+01	5.912E-06	299.705
882	2.827E+02	1.704E+01	5.999E-06	299.731
883	2.827E+02	1.705E+01	6.087E-06	299.757
884	2.827E+02	1.706E+01	6.175E-06	299.782
885	2.827E+02	1.706E+01	6.266E-06	299.808
886	2.828E+02	1.707E+01	6.357E-06	299.833
887	2.828E+02	1.708E+01	6.449E-06	299.859
888	2.828E+02	1.709E+01	6.543E-06	299.884
889	2.828E+02	1.710E+01	6.638E-06	299.910
890	2.828E+02	1.711E+01	6.734E-06	299.935
891	2.828E+02	1.712E+01	6.832E-06	299.961
892	2.829E+02	1.713E+01	6.931E-06	299.986
893	2.829E+02	1.714E+01	7.031E-06	300.011
894	2.829E+02	1.715E+01	7.132E-06	300.037
895	2.829E+02	1.716E+01	7.235E-06	300.062
896	2.829E+02	1.717E+01	7.339E-06	300.087
897	2.829E+02	1.718E+01	7.444E-06	300.113

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
898	2.829E+02	1.719E+01	7.551E-06	300.138
899	2.830E+02	1.720E+01	7.659E-06	300.163
900	2.830E+02	1.721E+01	7.769E-06	300.188
901	2.830E+02	1.722E+01	7.880E-06	300.213
902	2.830E+02	1.723E+01	7.992E-06	300.239
903	2.830E+02	1.724E+01	8.106E-06	300.264
904	2.830E+02	1.725E+01	8.222E-06	300.289
905	2.831E+02	1.726E+01	8.339E-06	300.314
906	2.831E+02	1.727E+01	8.457E-06	300.339
907	2.831E+02	1.728E+01	8.577E-06	300.364
908	2.831E+02	1.729E+01	8.698E-06	300.389
909	2.831E+02	1.730E+01	8.822E-06	300.414
910	2.831E+02	1.731E+01	8.946E-06	300.438
911	2.831E+02	1.732E+01	9.072E-06	300.463
912	2.832E+02	1.733E+01	9.200E-06	300.488
913	2.832E+02	1.734E+01	9.330E-06	300.513
914	2.832E+02	1.735E+01	9.461E-06	300.538
915	2.832E+02	1.736E+01	9.594E-06	300.563
916	2.832E+02	1.737E+01	9.728E-06	300.587
917	2.832E+02	1.738E+01	9.864E-06	300.612
918	2.832E+02	1.739E+01	1.000E-05	300.637
919	2.833E+02	1.740E+01	1.014E-05	300.661
920	2.833E+02	1.741E+01	1.028E-05	300.686
921	2.833E+02	1.742E+01	1.043E-05	300.711
922	2.833E+02	1.743E+01	1.057E-05	300.735
923	2.833E+02	1.744E+01	1.072E-05	300.760
924	2.833E+02	1.745E+01	1.087E-05	300.784
925	2.833E+02	1.746E+01	1.102E-05	300.809
926	2.834E+02	1.747E+01	1.117E-05	300.833
927	2.834E+02	1.748E+01	1.133E-05	300.858
928	2.834E+02	1.749E+01	1.148E-05	300.882
929	2.834E+02	1.750E+01	1.164E-05	300.906
930	2.834E+02	1.751E+01	1.180E-05	300.931
931	2.834E+02	1.752E+01	1.196E-05	300.955
932	2.835E+02	1.753E+01	1.213E-05	300.980
933	2.835E+02	1.754E+01	1.229E-05	301.004
934	2.835E+02	1.755E+01	1.246E-05	301.028
935	2.835E+02	1.756E+01	1.263E-05	301.052
936	2.835E+02	1.757E+01	1.281E-05	301.077
937	2.835E+02	1.758E+01	1.298E-05	301.101
938	2.835E+02	1.759E+01	1.316E-05	301.125

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
939	2.836E+02	1.760E+01	1.334E-05	301.149
940	2.836E+02	1.761E+01	1.352E-05	301.173
941	2.836E+02	1.762E+01	1.370E-05	301.197
942	2.836E+02	1.763E+01	1.389E-05	301.221
943	2.836E+02	1.764E+01	1.408E-05	301.245
944	2.836E+02	1.765E+01	1.427E-05	301.269
945	2.836E+02	1.766E+01	1.446E-05	301.293
946	2.837E+02	1.767E+01	1.465E-05	301.317
947	2.837E+02	1.768E+01	1.485E-05	301.341
948	2.837E+02	1.769E+01	1.505E-05	301.365
949	2.837E+02	1.770E+01	1.525E-05	301.389
950	2.837E+02	1.771E+01	1.546E-05	301.413
951	2.837E+02	1.772E+01	1.567E-05	301.437
952	2.837E+02	1.772E+01	1.588E-05	301.461
953	2.837E+02	1.773E+01	1.609E-05	301.485
954	2.838E+02	1.774E+01	1.630E-05	301.508
955	2.838E+02	1.775E+01	1.652E-05	301.532
956	2.838E+02	1.776E+01	1.674E-05	301.556
957	2.838E+02	1.777E+01	1.696E-05	301.579
958	2.838E+02	1.778E+01	1.719E-05	301.603
959	2.838E+02	1.779E+01	1.742E-05	301.627
960	2.838E+02	1.780E+01	1.765E-05	301.650
961	2.839E+02	1.781E+01	1.788E-05	301.674
962	2.839E+02	1.782E+01	1.812E-05	301.698
963	2.839E+02	1.783E+01	1.836E-05	301.721
964	2.839E+02	1.784E+01	1.860E-05	301.745
965	2.839E+02	1.785E+01	1.885E-05	301.768
966	2.839E+02	1.786E+01	1.910E-05	301.792
967	2.839E+02	1.787E+01	1.935E-05	301.815
968	2.840E+02	1.788E+01	1.960E-05	301.839
969	2.840E+02	1.789E+01	1.986E-05	301.862
970	2.840E+02	1.790E+01	2.012E-05	301.885
971	2.840E+02	1.791E+01	2.038E-05	301.909
972	2.840E+02	1.792E+01	2.065E-05	301.932
973	2.840E+02	1.793E+01	2.092E-05	301.955
974	2.840E+02	1.794E+01	2.119E-05	301.979
975	2.841E+02	1.795E+01	2.147E-05	302.002
976	2.841E+02	1.796E+01	2.175E-05	302.025
977	2.841E+02	1.797E+01	2.203E-05	302.049
978	2.841E+02	1.798E+01	2.231E-05	302.072
979	2.841E+02	1.799E+01	2.260E-05	302.095

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
980	2.841E+02	1.800E+01	2.290E-05	302.118
981	2.841E+02	1.801E+01	2.319E-05	302.141
982	2.841E+02	1.802E+01	2.349E-05	302.164
983	2.842E+02	1.803E+01	2.379E-05	302.187
984	2.842E+02	1.804E+01	2.410E-05	302.210
985	2.842E+02	1.805E+01	2.441E-05	302.234
986	2.842E+02	1.806E+01	2.472E-05	302.257
987	2.842E+02	1.807E+01	2.504E-05	302.280
988	2.842E+02	1.808E+01	2.536E-05	302.303
989	2.842E+02	1.809E+01	2.569E-05	302.325
990	2.843E+02	1.810E+01	2.602E-05	302.348
991	2.843E+02	1.811E+01	2.635E-05	302.371
992	2.843E+02	1.812E+01	2.668E-05	302.394
993	2.843E+02	1.813E+01	2.702E-05	302.417
994	2.843E+02	1.814E+01	2.737E-05	302.440
995	2.843E+02	1.815E+01	2.772E-05	302.463
996	2.843E+02	1.816E+01	2.807E-05	302.486
997	2.843E+02	1.817E+01	2.842E-05	302.508
998	2.844E+02	1.818E+01	2.878E-05	302.531
999	2.844E+02	1.819E+01	2.915E-05	302.554
1000	2.844E+02	1.820E+01	2.952E-05	302.577
1001	2.844E+02	1.821E+01	2.989E-05	302.599
1002	2.844E+02	1.822E+01	3.026E-05	302.622
1003	2.844E+02	1.822E+01	3.065E-05	302.645
1004	2.844E+02	1.823E+01	3.103E-05	302.667
1005	2.844E+02	1.824E+01	3.142E-05	302.690
1006	2.845E+02	1.825E+01	3.181E-05	302.712
1007	2.845E+02	1.826E+01	3.221E-05	302.735
1008	2.845E+02	1.827E+01	3.262E-05	302.757
1009	2.845E+02	1.828E+01	3.302E-05	302.780
1010	2.845E+02	1.829E+01	3.344E-05	302.802
1011	2.845E+02	1.830E+01	3.385E-05	302.825
1012	2.845E+02	1.831E+01	3.427E-05	302.847
1013	2.845E+02	1.832E+01	3.470E-05	302.870
1014	2.846E+02	1.833E+01	3.513E-05	302.892
1015	2.846E+02	1.834E+01	3.557E-05	302.915
1016	2.846E+02	1.835E+01	3.601E-05	302.937
1017	2.846E+02	1.836E+01	3.645E-05	302.959
1018	2.846E+02	1.837E+01	3.690E-05	302.982
1019	2.846E+02	1.838E+01	3.736E-05	303.004
1020	2.846E+02	1.839E+01	3.782E-05	303.026

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1021	2.846E+02	1.840E+01	3.829E-05	303.048
1022	2.847E+02	1.841E+01	3.876E-05	303.071
1023	2.847E+02	1.842E+01	3.923E-05	303.093
1024	2.847E+02	1.843E+01	3.972E-05	303.115
1025	2.847E+02	1.844E+01	4.020E-05	303.137
1026	2.847E+02	1.845E+01	4.069E-05	303.159
1027	2.847E+02	1.846E+01	4.119E-05	303.182
1028	2.847E+02	1.847E+01	4.170E-05	303.204
1029	2.847E+02	1.848E+01	4.220E-05	303.226
1030	2.848E+02	1.849E+01	4.272E-05	303.248
1031	2.848E+02	1.850E+01	4.324E-05	303.270
1032	2.848E+02	1.851E+01	4.376E-05	303.292
1033	2.848E+02	1.852E+01	4.430E-05	303.314
1034	2.848E+02	1.853E+01	4.483E-05	303.336
1035	2.848E+02	1.854E+01	4.538E-05	303.358
1036	2.848E+02	1.855E+01	4.592E-05	303.380
1037	2.848E+02	1.856E+01	4.648E-05	303.402
1038	2.849E+02	1.857E+01	4.704E-05	303.424
1039	2.849E+02	1.858E+01	4.761E-05	303.446
1040	2.849E+02	1.859E+01	4.818E-05	303.467
1041	2.849E+02	1.860E+01	4.876E-05	303.489
1042	2.849E+02	1.861E+01	4.935E-05	303.511
1043	2.849E+02	1.862E+01	4.994E-05	303.533
1044	2.849E+02	1.863E+01	5.054E-05	303.555
1045	2.849E+02	1.864E+01	5.114E-05	303.577
1046	2.850E+02	1.864E+01	5.175E-05	303.598
1047	2.850E+02	1.865E+01	5.237E-05	303.620
1048	2.850E+02	1.866E+01	5.300E-05	303.642
1049	2.850E+02	1.867E+01	5.363E-05	303.663
1050	2.850E+02	1.868E+01	5.427E-05	303.685
1051	2.850E+02	1.869E+01	5.491E-05	303.707
1052	2.850E+02	1.870E+01	5.556E-05	303.728
1053	2.850E+02	1.871E+01	5.622E-05	303.750
1054	2.850E+02	1.872E+01	5.689E-05	303.772
1055	2.851E+02	1.873E+01	5.756E-05	303.793
1056	2.851E+02	1.874E+01	5.824E-05	303.815
1057	2.851E+02	1.875E+01	5.893E-05	303.836
1058	2.851E+02	1.876E+01	5.962E-05	303.858
1059	2.851E+02	1.877E+01	6.033E-05	303.879
1060	2.851E+02	1.878E+01	6.104E-05	303.901
1061	2.851E+02	1.879E+01	6.175E-05	303.922

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1062	2.851E+02	1.880E+01	6.248E-05	303.944
1063	2.852E+02	1.881E+01	6.321E-05	303.965
1064	2.852E+02	1.882E+01	6.395E-05	303.986
1065	2.852E+02	1.883E+01	6.470E-05	304.008
1066	2.852E+02	1.884E+01	6.545E-05	304.029
1067	2.852E+02	1.885E+01	6.622E-05	304.050
1068	2.852E+02	1.886E+01	6.699E-05	304.072
1069	2.852E+02	1.887E+01	6.777E-05	304.093
1070	2.852E+02	1.888E+01	6.856E-05	304.114
1071	2.852E+02	1.889E+01	6.935E-05	304.136
1072	2.853E+02	1.890E+01	7.016E-05	304.157
1073	2.853E+02	1.891E+01	7.097E-05	304.178
1074	2.853E+02	1.892E+01	7.179E-05	304.199
1075	2.853E+02	1.893E+01	7.262E-05	304.220
1076	2.853E+02	1.894E+01	7.346E-05	304.242
1077	2.853E+02	1.895E+01	7.431E-05	304.263
1078	2.853E+02	1.896E+01	7.516E-05	304.284
1079	2.853E+02	1.897E+01	7.603E-05	304.305
1080	2.854E+02	1.898E+01	7.690E-05	304.326
1081	2.854E+02	1.899E+01	7.778E-05	304.347
1082	2.854E+02	1.900E+01	7.867E-05	304.368
1083	2.854E+02	1.900E+01	7.958E-05	304.389
1084	2.854E+02	1.901E+01	8.049E-05	304.410
1085	2.854E+02	1.902E+01	8.141E-05	304.431
1086	2.854E+02	1.903E+01	8.233E-05	304.452
1087	2.854E+02	1.904E+01	8.327E-05	304.473
1088	2.854E+02	1.905E+01	8.422E-05	304.494
1089	2.855E+02	1.906E+01	8.518E-05	304.515
1090	2.855E+02	1.907E+01	8.615E-05	304.536
1091	2.855E+02	1.908E+01	8.712E-05	304.557
1092	2.855E+02	1.909E+01	8.811E-05	304.578
1093	2.855E+02	1.910E+01	8.911E-05	304.599
1094	2.855E+02	1.911E+01	9.012E-05	304.619
1095	2.855E+02	1.912E+01	9.113E-05	304.640
1096	2.855E+02	1.913E+01	9.216E-05	304.661
1097	2.855E+02	1.914E+01	9.320E-05	304.682
1098	2.856E+02	1.915E+01	9.425E-05	304.703
1099	2.856E+02	1.916E+01	9.531E-05	304.723
1100	2.856E+02	1.917E+01	9.638E-05	304.744
1101	2.856E+02	1.918E+01	9.746E-05	304.765
1102	2.856E+02	1.919E+01	9.855E-05	304.786

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1103	2.856E+02	1.920E+01	9.966E-05	304.806
1104	2.856E+02	1.921E+01	1.008E-04	304.827
1105	2.856E+02	1.922E+01	1.019E-04	304.847
1106	2.856E+02	1.923E+01	1.030E-04	304.868
1107	2.857E+02	1.924E+01	1.042E-04	304.889
1108	2.857E+02	1.925E+01	1.053E-04	304.909
1109	2.857E+02	1.926E+01	1.065E-04	304.930
1110	2.857E+02	1.927E+01	1.077E-04	304.950
1111	2.857E+02	1.928E+01	1.089E-04	304.971
1112	2.857E+02	1.929E+01	1.101E-04	304.991
1113	2.857E+02	1.930E+01	1.113E-04	305.012
1114	2.857E+02	1.931E+01	1.125E-04	305.032
1115	2.857E+02	1.932E+01	1.138E-04	305.053
1116	2.857E+02	1.933E+01	1.150E-04	305.073
1117	2.858E+02	1.933E+01	1.163E-04	305.094
1118	2.858E+02	1.934E+01	1.176E-04	305.114
1119	2.858E+02	1.935E+01	1.189E-04	305.135
1120	2.858E+02	1.936E+01	1.202E-04	305.155
1121	2.858E+02	1.937E+01	1.215E-04	305.175
1122	2.858E+02	1.938E+01	1.228E-04	305.196
1123	2.858E+02	1.939E+01	1.242E-04	305.216
1124	2.858E+02	1.940E+01	1.255E-04	305.236
1125	2.858E+02	1.941E+01	1.269E-04	305.257
1126	2.859E+02	1.942E+01	1.283E-04	305.277
1127	2.859E+02	1.943E+01	1.297E-04	305.297
1128	2.859E+02	1.944E+01	1.311E-04	305.317
1129	2.859E+02	1.945E+01	1.325E-04	305.338
1130	2.859E+02	1.946E+01	1.340E-04	305.358
1131	2.859E+02	1.947E+01	1.354E-04	305.378
1132	2.859E+02	1.948E+01	1.369E-04	305.398
1133	2.859E+02	1.949E+01	1.384E-04	305.418
1134	2.859E+02	1.950E+01	1.399E-04	305.438
1135	2.859E+02	1.951E+01	1.414E-04	305.459
1136	2.860E+02	1.952E+01	1.429E-04	305.479
1137	2.860E+02	1.953E+01	1.444E-04	305.499
1138	2.860E+02	1.954E+01	1.460E-04	305.519
1139	2.860E+02	1.955E+01	1.475E-04	305.539
1140	2.860E+02	1.956E+01	1.491E-04	305.559
1141	2.860E+02	1.957E+01	1.507E-04	305.579
1142	2.860E+02	1.958E+01	1.523E-04	305.599
1143	2.860E+02	1.959E+01	1.540E-04	305.619

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1144	2.860E+02	1.960E+01	1.556E-04	305.639
1145	2.861E+02	1.961E+01	1.573E-04	305.659
1146	2.861E+02	1.962E+01	1.590E-04	305.679
1147	2.861E+02	1.963E+01	1.606E-04	305.699
1148	2.861E+02	1.964E+01	1.624E-04	305.719
1149	2.861E+02	1.964E+01	1.641E-04	305.739
1150	2.861E+02	1.965E+01	1.658E-04	305.758
1151	2.861E+02	1.966E+01	1.676E-04	305.778
1152	2.861E+02	1.967E+01	1.694E-04	305.798
1153	2.861E+02	1.968E+01	1.712E-04	305.818
1154	2.861E+02	1.969E+01	1.730E-04	305.838
1155	2.862E+02	1.970E+01	1.748E-04	305.858
1156	2.862E+02	1.971E+01	1.766E-04	305.877
1157	2.862E+02	1.972E+01	1.785E-04	305.897
1158	2.862E+02	1.973E+01	1.804E-04	305.917
1159	2.862E+02	1.974E+01	1.823E-04	305.937
1160	2.862E+02	1.975E+01	1.842E-04	305.956
1161	2.862E+02	1.976E+01	1.861E-04	305.976
1162	2.862E+02	1.977E+01	1.881E-04	305.996
1163	2.862E+02	1.978E+01	1.900E-04	306.015
1164	2.862E+02	1.979E+01	1.920E-04	306.035
1165	2.863E+02	1.980E+01	1.940E-04	306.055
1166	2.863E+02	1.981E+01	1.960E-04	306.074
1167	2.863E+02	1.982E+01	1.981E-04	306.094
1168	2.863E+02	1.983E+01	2.001E-04	306.114
1169	2.863E+02	1.984E+01	2.022E-04	306.133
1170	2.863E+02	1.985E+01	2.043E-04	306.153
1171	2.863E+02	1.986E+01	2.064E-04	306.172
1172	2.863E+02	1.987E+01	2.086E-04	306.192
1173	2.863E+02	1.988E+01	2.107E-04	306.211
1174	2.863E+02	1.989E+01	2.129E-04	306.231
1175	2.864E+02	1.990E+01	2.151E-04	306.250
1176	2.864E+02	1.991E+01	2.173E-04	306.270
1177	2.864E+02	1.992E+01	2.196E-04	306.289
1178	2.864E+02	1.992E+01	2.218E-04	306.309
1179	2.864E+02	1.993E+01	2.241E-04	306.328
1180	2.864E+02	1.994E+01	2.264E-04	306.347
1181	2.864E+02	1.995E+01	2.287E-04	306.367
1182	2.864E+02	1.996E+01	2.311E-04	306.386
1183	2.864E+02	1.997E+01	2.334E-04	306.406
1184	2.864E+02	1.998E+01	2.358E-04	306.425

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1185	2.865E+02	1.999E+01	2.382E-04	306.444
1186	2.865E+02	2.000E+01	2.407E-04	306.464
1187	2.865E+02	2.001E+01	2.431E-04	306.483
1188	2.865E+02	2.002E+01	2.456E-04	306.502
1189	2.865E+02	2.003E+01	2.481E-04	306.521
1190	2.865E+02	2.004E+01	2.506E-04	306.541
1191	2.865E+02	2.005E+01	2.531E-04	306.560
1192	2.865E+02	2.006E+01	2.557E-04	306.579
1193	2.865E+02	2.007E+01	2.583E-04	306.598
1194	2.865E+02	2.008E+01	2.609E-04	306.618
1195	2.865E+02	2.009E+01	2.636E-04	306.637
1196	2.866E+02	2.010E+01	2.662E-04	306.656
1197	2.866E+02	2.011E+01	2.689E-04	306.675
1198	2.866E+02	2.012E+01	2.716E-04	306.694
1199	2.866E+02	2.013E+01	2.743E-04	306.713
1200	2.866E+02	2.014E+01	2.771E-04	306.732
1201	2.866E+02	2.015E+01	2.799E-04	306.752
1202	2.866E+02	2.016E+01	2.827E-04	306.771
1203	2.866E+02	2.017E+01	2.855E-04	306.790
1204	2.866E+02	2.018E+01	2.884E-04	306.809
1205	2.866E+02	2.019E+01	2.912E-04	306.828
1206	2.867E+02	2.019E+01	2.942E-04	306.847
1207	2.867E+02	2.020E+01	2.971E-04	306.866
1208	2.867E+02	2.021E+01	3.000E-04	306.885
1209	2.867E+02	2.022E+01	3.030E-04	306.904
1210	2.867E+02	2.023E+01	3.060E-04	306.923
1211	2.867E+02	2.024E+01	3.091E-04	306.942
1212	2.867E+02	2.025E+01	3.121E-04	306.961
1213	2.867E+02	2.026E+01	3.152E-04	306.980
1214	2.867E+02	2.027E+01	3.184E-04	306.998
1215	2.867E+02	2.028E+01	3.215E-04	307.017
1216	2.867E+02	2.029E+01	3.247E-04	307.036
1217	2.868E+02	2.030E+01	3.279E-04	307.055
1218	2.868E+02	2.031E+01	3.311E-04	307.074
1219	2.868E+02	2.032E+01	3.344E-04	307.093
1220	2.868E+02	2.033E+01	3.377E-04	307.112
1221	2.868E+02	2.034E+01	3.410E-04	307.130
1222	2.868E+02	2.035E+01	3.443E-04	307.149
1223	2.868E+02	2.036E+01	3.477E-04	307.168
1224	2.868E+02	2.037E+01	3.511E-04	307.187
1225	2.868E+02	2.038E+01	3.545E-04	307.206

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1226	2.868E+02	2.039E+01	3.580E-04	307.224
1227	2.868E+02	2.040E+01	3.615E-04	307.243
1228	2.869E+02	2.041E+01	3.651E-04	307.262
1229	2.869E+02	2.042E+01	3.689E-04	307.282
1230	2.869E+02	2.043E+01	3.728E-04	307.302
1231	2.869E+02	2.044E+01	3.767E-04	307.323
1232	2.869E+02	2.045E+01	3.807E-04	307.343
1233	2.869E+02	2.046E+01	3.848E-04	307.364
1234	2.869E+02	2.047E+01	3.889E-04	307.384
1235	2.869E+02	2.048E+01	3.931E-04	307.405
1236	2.869E+02	2.049E+01	3.973E-04	307.426
1237	2.869E+02	2.050E+01	4.016E-04	307.446
1238	2.870E+02	2.051E+01	4.059E-04	307.467
1239	2.870E+02	2.052E+01	4.103E-04	307.488
1240	2.870E+02	2.053E+01	4.147E-04	307.508
1241	2.870E+02	2.054E+01	4.191E-04	307.529
1242	2.870E+02	2.056E+01	4.236E-04	307.550
1243	2.870E+02	2.057E+01	4.282E-04	307.570
1244	2.870E+02	2.058E+01	4.328E-04	307.591
1245	2.870E+02	2.059E+01	4.374E-04	307.612
1246	2.870E+02	2.060E+01	4.420E-04	307.632
1247	2.870E+02	2.061E+01	4.468E-04	307.653
1248	2.871E+02	2.062E+01	4.515E-04	307.673
1249	2.871E+02	2.063E+01	4.563E-04	307.694
1250	2.871E+02	2.064E+01	4.612E-04	307.714
1251	2.871E+02	2.065E+01	4.660E-04	307.735
1252	2.871E+02	2.066E+01	4.710E-04	307.755
1253	2.871E+02	2.067E+01	4.760E-04	307.776
1254	2.871E+02	2.068E+01	4.810E-04	307.796
1255	2.871E+02	2.069E+01	4.861E-04	307.817
1256	2.871E+02	2.071E+01	4.912E-04	307.837
1257	2.871E+02	2.072E+01	4.964E-04	307.858
1258	2.872E+02	2.073E+01	5.016E-04	307.878
1259	2.872E+02	2.074E+01	5.069E-04	307.899
1260	2.872E+02	2.075E+01	5.122E-04	307.919
1261	2.872E+02	2.076E+01	5.176E-04	307.939
1262	2.872E+02	2.077E+01	5.230E-04	307.960
1263	2.872E+02	2.078E+01	5.284E-04	307.980
1264	2.872E+02	2.079E+01	5.340E-04	308.000
1265	2.872E+02	2.080E+01	5.395E-04	308.021
1266	2.872E+02	2.081E+01	5.452E-04	308.041

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1267	2.872E+02	2.082E+01	5.508E-04	308.061
1268	2.872E+02	2.083E+01	5.566E-04	308.081
1269	2.873E+02	2.084E+01	5.623E-04	308.101
1270	2.873E+02	2.086E+01	5.682E-04	308.122
1271	2.873E+02	2.087E+01	5.741E-04	308.142
1272	2.873E+02	2.088E+01	5.800E-04	308.162
1273	2.873E+02	2.089E+01	5.860E-04	308.182
1274	2.873E+02	2.090E+01	5.920E-04	308.202
1275	2.873E+02	2.091E+01	5.981E-04	308.222
1276	2.873E+02	2.092E+01	6.043E-04	308.243
1277	2.873E+02	2.093E+01	6.105E-04	308.263
1278	2.873E+02	2.094E+01	6.168E-04	308.283
1279	2.874E+02	2.095E+01	6.231E-04	308.303
1280	2.874E+02	2.096E+01	6.295E-04	308.323
1281	2.874E+02	2.097E+01	6.360E-04	308.343
1282	2.874E+02	2.098E+01	6.425E-04	308.363
1283	2.874E+02	2.099E+01	6.490E-04	308.383
1284	2.874E+02	2.100E+01	6.556E-04	308.403
1285	2.874E+02	2.102E+01	6.623E-04	308.423
1286	2.874E+02	2.103E+01	6.691E-04	308.443
1287	2.874E+02	2.104E+01	6.759E-04	308.463
1288	2.874E+02	2.105E+01	6.827E-04	308.483
1289	2.874E+02	2.106E+01	6.896E-04	308.503
1290	2.875E+02	2.107E+01	6.966E-04	308.522
1291	2.875E+02	2.108E+01	7.037E-04	308.542
1292	2.875E+02	2.109E+01	7.108E-04	308.562
1293	2.875E+02	2.110E+01	7.180E-04	308.582
1294	2.875E+02	2.111E+01	7.252E-04	308.602
1295	2.875E+02	2.112E+01	7.325E-04	308.622
1296	2.875E+02	2.113E+01	7.399E-04	308.641
1297	2.875E+02	2.114E+01	7.473E-04	308.661
1298	2.875E+02	2.115E+01	7.548E-04	308.681
1299	2.875E+02	2.116E+01	7.624E-04	308.701
1300	2.875E+02	2.118E+01	7.700E-04	308.721
1301	2.876E+02	2.119E+01	7.777E-04	308.740
1302	2.876E+02	2.120E+01	7.855E-04	308.760
1303	2.876E+02	2.121E+01	7.933E-04	308.780
1304	2.876E+02	2.122E+01	8.012E-04	308.799
1305	2.876E+02	2.123E+01	8.092E-04	308.819
1306	2.876E+02	2.124E+01	8.172E-04	308.839
1307	2.876E+02	2.125E+01	8.254E-04	308.858

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1308	2.876E+02	2.126E+01	8.336E-04	308.878
1309	2.876E+02	2.127E+01	8.418E-04	308.897
1310	2.876E+02	2.128E+01	8.501E-04	308.917
1311	2.876E+02	2.129E+01	8.585E-04	308.937
1312	2.877E+02	2.130E+01	8.670E-04	308.956
1313	2.877E+02	2.131E+01	8.756E-04	308.976
1314	2.877E+02	2.132E+01	8.842E-04	308.995
1315	2.877E+02	2.134E+01	8.929E-04	309.015
1316	2.877E+02	2.135E+01	9.017E-04	309.034
1317	2.877E+02	2.136E+01	9.105E-04	309.054
1318	2.877E+02	2.137E+01	9.195E-04	309.073
1319	2.877E+02	2.138E+01	9.285E-04	309.093
1320	2.877E+02	2.139E+01	9.376E-04	309.112
1321	2.877E+02	2.140E+01	9.467E-04	309.131
1322	2.877E+02	2.141E+01	9.560E-04	309.151
1323	2.877E+02	2.142E+01	9.653E-04	309.170
1324	2.878E+02	2.143E+01	9.747E-04	309.190
1325	2.878E+02	2.144E+01	9.842E-04	309.209
1326	2.878E+02	2.145E+01	9.937E-04	309.228
1327	2.878E+02	2.146E+01	1.003E-03	309.248
1328	2.878E+02	2.147E+01	1.013E-03	309.267
1329	2.878E+02	2.148E+01	1.023E-03	309.286
1330	2.878E+02	2.150E+01	1.033E-03	309.306
1331	2.878E+02	2.151E+01	1.043E-03	309.325
1332	2.878E+02	2.152E+01	1.053E-03	309.344
1333	2.878E+02	2.153E+01	1.063E-03	309.363
1334	2.878E+02	2.154E+01	1.073E-03	309.383
1335	2.879E+02	2.155E+01	1.084E-03	309.402
1336	2.879E+02	2.156E+01	1.094E-03	309.421
1337	2.879E+02	2.157E+01	1.104E-03	309.440
1338	2.879E+02	2.158E+01	1.115E-03	309.459
1339	2.879E+02	2.159E+01	1.126E-03	309.479
1340	2.879E+02	2.160E+01	1.136E-03	309.498
1341	2.879E+02	2.161E+01	1.147E-03	309.517
1342	2.879E+02	2.162E+01	1.158E-03	309.536
1343	2.879E+02	2.163E+01	1.169E-03	309.555
1344	2.879E+02	2.164E+01	1.180E-03	309.574
1345	2.879E+02	2.165E+01	1.192E-03	309.593
1346	2.879E+02	2.167E+01	1.203E-03	309.612
1347	2.880E+02	2.168E+01	1.214E-03	309.631
1348	2.880E+02	2.169E+01	1.226E-03	309.650

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1349	2.880E+02	2.170E+01	1.238E-03	309.670
1350	2.880E+02	2.171E+01	1.249E-03	309.689
1351	2.880E+02	2.172E+01	1.261E-03	309.708
1352	2.880E+02	2.173E+01	1.273E-03	309.727
1353	2.880E+02	2.174E+01	1.285E-03	309.745
1354	2.880E+02	2.175E+01	1.297E-03	309.764
1355	2.880E+02	2.176E+01	1.309E-03	309.783
1356	2.880E+02	2.177E+01	1.322E-03	309.802
1357	2.880E+02	2.178E+01	1.334E-03	309.821
1358	2.880E+02	2.179E+01	1.346E-03	309.840
1359	2.881E+02	2.180E+01	1.359E-03	309.859
1360	2.881E+02	2.181E+01	1.372E-03	309.878
1361	2.881E+02	2.182E+01	1.385E-03	309.897
1362	2.881E+02	2.183E+01	1.397E-03	309.916
1363	2.881E+02	2.185E+01	1.410E-03	309.934
1364	2.881E+02	2.186E+01	1.424E-03	309.953
1365	2.881E+02	2.187E+01	1.437E-03	309.972
1366	2.881E+02	2.188E+01	1.450E-03	309.991
1367	2.881E+02	2.189E+01	1.464E-03	310.010
1368	2.881E+02	2.190E+01	1.477E-03	310.028
1369	2.881E+02	2.191E+01	1.491E-03	310.047
1370	2.881E+02	2.192E+01	1.505E-03	310.066
1371	2.882E+02	2.193E+01	1.519E-03	310.085
1372	2.882E+02	2.194E+01	1.533E-03	310.103
1373	2.882E+02	2.195E+01	1.547E-03	310.122
1374	2.882E+02	2.196E+01	1.561E-03	310.141
1375	2.882E+02	2.197E+01	1.575E-03	310.159
1376	2.882E+02	2.198E+01	1.590E-03	310.178
1377	2.882E+02	2.199E+01	1.604E-03	310.197
1378	2.882E+02	2.200E+01	1.619E-03	310.215
1379	2.882E+02	2.202E+01	1.634E-03	310.234
1380	2.882E+02	2.203E+01	1.649E-03	310.253
1381	2.882E+02	2.204E+01	1.664E-03	310.271
1382	2.882E+02	2.205E+01	1.679E-03	310.290
1383	2.882E+02	2.206E+01	1.694E-03	310.308
1384	2.883E+02	2.207E+01	1.710E-03	310.327
1385	2.883E+02	2.208E+01	1.725E-03	310.346
1386	2.883E+02	2.209E+01	1.741E-03	310.364
1387	2.883E+02	2.210E+01	1.757E-03	310.383
1388	2.883E+02	2.211E+01	1.773E-03	310.401
1389	2.883E+02	2.212E+01	1.789E-03	310.420

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1390	2.883E+02	2.213E+01	1.805E-03	310.438
1391	2.883E+02	2.214E+01	1.821E-03	310.457
1392	2.883E+02	2.215E+01	1.838E-03	310.475
1393	2.883E+02	2.216E+01	1.854E-03	310.493
1394	2.883E+02	2.217E+01	1.871E-03	310.512
1395	2.883E+02	2.218E+01	1.888E-03	310.530
1396	2.884E+02	2.219E+01	1.905E-03	310.549
1397	2.884E+02	2.221E+01	1.922E-03	310.567
1398	2.884E+02	2.222E+01	1.939E-03	310.586
1399	2.884E+02	2.223E+01	1.956E-03	310.604
1400	2.884E+02	2.224E+01	1.974E-03	310.622
1401	2.884E+02	2.225E+01	1.991E-03	310.641
1402	2.884E+02	2.226E+01	2.009E-03	310.659
1403	2.884E+02	2.227E+01	2.027E-03	310.677
1404	2.884E+02	2.228E+01	2.045E-03	310.696
1405	2.884E+02	2.229E+01	2.063E-03	310.714
1406	2.884E+02	2.230E+01	2.082E-03	310.732
1407	2.884E+02	2.231E+01	2.100E-03	310.750
1408	2.884E+02	2.232E+01	2.119E-03	310.769
1409	2.885E+02	2.233E+01	2.138E-03	310.787
1410	2.885E+02	2.234E+01	2.156E-03	310.805
1411	2.885E+02	2.235E+01	2.175E-03	310.823
1412	2.885E+02	2.236E+01	2.195E-03	310.842
1413	2.885E+02	2.237E+01	2.214E-03	310.860
1414	2.885E+02	2.239E+01	2.234E-03	310.878
1415	2.885E+02	2.240E+01	2.253E-03	310.896
1416	2.885E+02	2.241E+01	2.273E-03	310.914
1417	2.885E+02	2.242E+01	2.293E-03	310.933
1418	2.885E+02	2.243E+01	2.313E-03	310.951
1419	2.885E+02	2.244E+01	2.333E-03	310.969
1420	2.885E+02	2.245E+01	2.354E-03	310.987
1421	2.885E+02	2.246E+01	2.374E-03	311.005
1422	2.886E+02	2.247E+01	2.395E-03	311.023
1423	2.886E+02	2.248E+01	2.416E-03	311.041
1424	2.886E+02	2.249E+01	2.437E-03	311.059
1425	2.886E+02	2.250E+01	2.458E-03	311.077
1426	2.886E+02	2.251E+01	2.480E-03	311.095
1427	2.886E+02	2.252E+01	2.501E-03	311.113
1428	2.886E+02	2.253E+01	2.523E-03	311.131
1429	2.886E+02	2.254E+01	2.545E-03	311.149
1430	2.886E+02	2.255E+01	2.567E-03	311.167

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1431	2.886E+02	2.256E+01	2.589E-03	311.185
1432	2.886E+02	2.257E+01	2.611E-03	311.203
1433	2.886E+02	2.259E+01	2.634E-03	311.221
1434	2.886E+02	2.260E+01	2.656E-03	311.239
1435	2.886E+02	2.261E+01	2.679E-03	311.257
1436	2.887E+02	2.262E+01	2.702E-03	311.275
1437	2.887E+02	2.263E+01	2.726E-03	311.293
1438	2.887E+02	2.264E+01	2.749E-03	311.311
1439	2.887E+02	2.265E+01	2.772E-03	311.329
1440	2.887E+02	2.266E+01	2.796E-03	311.347
1441	2.887E+02	2.267E+01	2.820E-03	311.365
1442	2.887E+02	2.268E+01	2.844E-03	311.383
1443	2.887E+02	2.269E+01	2.869E-03	311.400
1444	2.887E+02	2.270E+01	2.893E-03	311.418
1445	2.887E+02	2.271E+01	2.918E-03	311.436
1446	2.887E+02	2.272E+01	2.942E-03	311.454
1447	2.887E+02	2.273E+01	2.967E-03	311.472
1448	2.887E+02	2.274E+01	2.993E-03	311.489
1449	2.888E+02	2.275E+01	3.018E-03	311.507
1450	2.888E+02	2.276E+01	3.044E-03	311.525
1451	2.888E+02	2.277E+01	3.069E-03	311.543
1452	2.888E+02	2.279E+01	3.095E-03	311.560
1453	2.888E+02	2.280E+01	3.121E-03	311.578
1454	2.888E+02	2.281E+01	3.148E-03	311.596
1455	2.888E+02	2.282E+01	3.174E-03	311.614
1456	2.888E+02	2.283E+01	3.201E-03	311.631
1457	2.888E+02	2.284E+01	3.228E-03	311.649
1458	2.888E+02	2.285E+01	3.255E-03	311.667
1459	2.888E+02	2.286E+01	3.282E-03	311.684
1460	2.888E+02	2.287E+01	3.310E-03	311.702
1461	2.888E+02	2.288E+01	3.338E-03	311.720
1462	2.888E+02	2.289E+01	3.365E-03	311.737
1463	2.889E+02	2.290E+01	3.394E-03	311.755
1464	2.889E+02	2.291E+01	3.422E-03	311.773
1465	2.889E+02	2.292E+01	3.450E-03	311.790
1466	2.889E+02	2.293E+01	3.479E-03	311.808
1467	2.889E+02	2.294E+01	3.508E-03	311.825
1468	2.889E+02	2.295E+01	3.537E-03	311.843
1469	2.889E+02	2.296E+01	3.567E-03	311.861
1470	2.889E+02	2.297E+01	3.596E-03	311.878
1471	2.889E+02	2.299E+01	3.626E-03	311.896

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1472	2.889E+02	2.300E+01	3.656E-03	311.913
1473	2.889E+02	2.301E+01	3.686E-03	311.931
1474	2.889E+02	2.302E+01	3.717E-03	311.948
1475	2.889E+02	2.303E+01	3.747E-03	311.966
1476	2.889E+02	2.304E+01	3.778E-03	311.983
1477	2.889E+02	2.305E+01	3.809E-03	312.001
1478	2.890E+02	2.306E+01	3.841E-03	312.018
1479	2.890E+02	2.307E+01	3.872E-03	312.036
1480	2.890E+02	2.308E+01	3.904E-03	312.053
1481	2.890E+02	2.309E+01	3.936E-03	312.070
1482	2.890E+02	2.310E+01	3.968E-03	312.088
1483	2.890E+02	2.311E+01	4.001E-03	312.105
1484	2.890E+02	2.312E+01	4.033E-03	312.123
1485	2.890E+02	2.313E+01	4.066E-03	312.140
1486	2.890E+02	2.314E+01	4.099E-03	312.157
1487	2.890E+02	2.315E+01	4.133E-03	312.175
1488	2.890E+02	2.316E+01	4.166E-03	312.192
1489	2.890E+02	2.317E+01	4.200E-03	312.210
1490	2.890E+02	2.318E+01	4.234E-03	312.227
1491	2.890E+02	2.319E+01	4.269E-03	312.244
1492	2.891E+02	2.321E+01	4.303E-03	312.262
1493	2.891E+02	2.322E+01	4.338E-03	312.279
1494	2.891E+02	2.323E+01	4.373E-03	312.296
1495	2.891E+02	2.324E+01	4.409E-03	312.313
1496	2.891E+02	2.325E+01	4.444E-03	312.331
1497	2.891E+02	2.326E+01	4.480E-03	312.348
1498	2.891E+02	2.327E+01	4.516E-03	312.365
1499	2.891E+02	2.328E+01	4.552E-03	312.382
1500	2.891E+02	2.329E+01	4.589E-03	312.400
1501	2.891E+02	2.330E+01	4.626E-03	312.417
1502	2.891E+02	2.331E+01	4.663E-03	312.434
1503	2.891E+02	2.332E+01	4.700E-03	312.451
1504	2.891E+02	2.333E+01	4.738E-03	312.469
1505	2.891E+02	2.334E+01	4.776E-03	312.486
1506	2.891E+02	2.335E+01	4.814E-03	312.503
1507	2.892E+02	2.336E+01	4.852E-03	312.520
1508	2.892E+02	2.337E+01	4.891E-03	312.537
1509	2.892E+02	2.338E+01	4.930E-03	312.554
1510	2.892E+02	2.339E+01	4.969E-03	312.572
1511	2.892E+02	2.340E+01	5.009E-03	312.589
1512	2.892E+02	2.341E+01	5.048E-03	312.606

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1513	2.892E+02	2.343E+01	5.088E-03	312.623
1514	2.892E+02	2.344E+01	5.129E-03	312.640
1515	2.892E+02	2.345E+01	5.169E-03	312.657
1516	2.892E+02	2.346E+01	5.210E-03	312.674
1517	2.892E+02	2.347E+01	5.251E-03	312.691
1518	2.892E+02	2.348E+01	5.293E-03	312.708
1519	2.892E+02	2.349E+01	5.334E-03	312.725
1520	2.892E+02	2.350E+01	5.376E-03	312.742
1521	2.892E+02	2.351E+01	5.419E-03	312.759
1522	2.893E+02	2.352E+01	5.461E-03	312.776
1523	2.893E+02	2.353E+01	5.504E-03	312.793
1524	2.893E+02	2.354E+01	5.547E-03	312.810
1525	2.893E+02	2.355E+01	5.591E-03	312.827
1526	2.893E+02	2.356E+01	5.634E-03	312.844
1527	2.893E+02	2.357E+01	5.678E-03	312.861
1528	2.893E+02	2.358E+01	5.723E-03	312.878
1529	2.893E+02	2.359E+01	5.767E-03	312.895
1530	2.893E+02	2.360E+01	5.812E-03	312.912
1531	2.893E+02	2.361E+01	5.857E-03	312.929
1532	2.893E+02	2.362E+01	5.903E-03	312.946
1533	2.893E+02	2.363E+01	5.949E-03	312.963
1534	2.893E+02	2.364E+01	5.995E-03	312.980
1535	2.893E+02	2.366E+01	6.041E-03	312.997
1536	2.893E+02	2.367E+01	6.088E-03	313.014
1537	2.893E+02	2.368E+01	6.135E-03	313.030
1538	2.894E+02	2.369E+01	6.183E-03	313.047
1539	2.894E+02	2.370E+01	6.230E-03	313.064
1540	2.894E+02	2.371E+01	6.278E-03	313.081
1541	2.894E+02	2.372E+01	6.327E-03	313.098
1542	2.894E+02	2.373E+01	6.375E-03	313.115
1543	2.894E+02	2.374E+01	6.424E-03	313.132
1544	2.894E+02	2.375E+01	6.474E-03	313.148
1545	2.894E+02	2.376E+01	6.523E-03	313.165
1546	2.894E+02	2.377E+01	6.573E-03	313.182
1547	2.894E+02	2.378E+01	6.624E-03	313.199
1548	2.894E+02	2.379E+01	6.674E-03	313.216
1549	2.894E+02	2.380E+01	6.725E-03	313.232
1550	2.894E+02	2.381E+01	6.777E-03	313.249
1551	2.894E+02	2.382E+01	6.828E-03	313.266
1552	2.894E+02	2.383E+01	6.880E-03	313.282
1553	2.894E+02	2.384E+01	6.933E-03	313.299

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1554	2.895E+02	2.385E+01	6.985E-03	313.316
1555	2.895E+02	2.386E+01	7.039E-03	313.333
1556	2.895E+02	2.387E+01	7.092E-03	313.349
1557	2.895E+02	2.388E+01	7.146E-03	313.366
1558	2.895E+02	2.389E+01	7.200E-03	313.383
1559	2.895E+02	2.391E+01	7.254E-03	313.399
1560	2.895E+02	2.392E+01	7.309E-03	313.416
1561	2.895E+02	2.393E+01	7.364E-03	313.433
1562	2.895E+02	2.394E+01	7.420E-03	313.449
1563	2.895E+02	2.395E+01	7.476E-03	313.466
1564	2.895E+02	2.396E+01	7.532E-03	313.483
1565	2.895E+02	2.397E+01	7.588E-03	313.499
1566	2.895E+02	2.398E+01	7.645E-03	313.516
1567	2.895E+02	2.399E+01	7.703E-03	313.532
1568	2.895E+02	2.400E+01	7.761E-03	313.549
1569	2.895E+02	2.401E+01	7.819E-03	313.566
1570	2.896E+02	2.402E+01	7.877E-03	313.582
1571	2.896E+02	2.403E+01	7.936E-03	313.599
1572	2.896E+02	2.404E+01	7.995E-03	313.615
1573	2.896E+02	2.405E+01	8.055E-03	313.632
1574	2.896E+02	2.406E+01	8.115E-03	313.648
1575	2.896E+02	2.407E+01	8.175E-03	313.665
1576	2.896E+02	2.408E+01	8.236E-03	313.681
1577	2.896E+02	2.409E+01	8.297E-03	313.698
1578	2.896E+02	2.410E+01	8.359E-03	313.714
1579	2.896E+02	2.411E+01	8.421E-03	313.731
1580	2.896E+02	2.412E+01	8.483E-03	313.747
1581	2.896E+02	2.413E+01	8.546E-03	313.764
1582	2.896E+02	2.414E+01	8.609E-03	313.780
1583	2.896E+02	2.416E+01	8.673E-03	313.797
1584	2.896E+02	2.417E+01	8.737E-03	313.813
1585	2.896E+02	2.418E+01	8.801E-03	313.830
1586	2.897E+02	2.419E+01	8.866E-03	313.846
1587	2.897E+02	2.420E+01	8.931E-03	313.863
1588	2.897E+02	2.421E+01	8.996E-03	313.879
1589	2.897E+02	2.422E+01	9.062E-03	313.895
1590	2.897E+02	2.423E+01	9.129E-03	313.912
1591	2.897E+02	2.424E+01	9.196E-03	313.928
1592	2.897E+02	2.425E+01	9.263E-03	313.945
1593	2.897E+02	2.426E+01	9.331E-03	313.961
1594	2.897E+02	2.427E+01	9.399E-03	313.977

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1595	2.897E+02	2.428E+01	9.467E-03	313.994
1596	2.897E+02	2.429E+01	9.536E-03	314.010
1597	2.897E+02	2.430E+01	9.606E-03	314.026
1598	2.897E+02	2.431E+01	9.676E-03	314.043
1599	2.897E+02	2.432E+01	9.746E-03	314.059
1600	2.897E+02	2.433E+01	9.817E-03	314.075
1601	2.897E+02	2.434E+01	9.888E-03	314.092
1602	2.897E+02	2.435E+01	9.960E-03	314.108
1603	2.898E+02	2.436E+01	1.003E-02	314.124
1604	2.898E+02	2.437E+01	1.010E-02	314.141
1605	2.898E+02	2.438E+01	1.018E-02	314.157
1606	2.898E+02	2.439E+01	1.025E-02	314.173
1607	2.898E+02	2.440E+01	1.032E-02	314.189
1608	2.898E+02	2.441E+01	1.040E-02	314.206
1609	2.898E+02	2.443E+01	1.047E-02	314.222
1610	2.898E+02	2.444E+01	1.055E-02	314.238
1611	2.898E+02	2.445E+01	1.062E-02	314.254
1612	2.898E+02	2.446E+01	1.070E-02	314.271
1613	2.898E+02	2.447E+01	1.078E-02	314.287
1614	2.898E+02	2.448E+01	1.085E-02	314.303
1615	2.898E+02	2.449E+01	1.093E-02	314.319
1616	2.898E+02	2.450E+01	1.101E-02	314.335
1617	2.898E+02	2.451E+01	1.109E-02	314.352
1618	2.898E+02	2.452E+01	1.117E-02	314.368
1619	2.898E+02	2.453E+01	1.125E-02	314.384
1620	2.898E+02	2.454E+01	1.133E-02	314.400
1621	2.899E+02	2.455E+01	1.141E-02	314.416
1622	2.899E+02	2.456E+01	1.149E-02	314.432
1623	2.899E+02	2.457E+01	1.157E-02	314.448
1624	2.899E+02	2.458E+01	1.165E-02	314.465
1625	2.899E+02	2.459E+01	1.174E-02	314.481
1626	2.899E+02	2.460E+01	1.182E-02	314.497
1627	2.899E+02	2.461E+01	1.190E-02	314.513
1628	2.899E+02	2.462E+01	1.199E-02	314.529
1629	2.899E+02	2.463E+01	1.207E-02	314.545
1630	2.899E+02	2.464E+01	1.216E-02	314.561
1631	2.899E+02	2.465E+01	1.224E-02	314.577
1632	2.899E+02	2.466E+01	1.233E-02	314.593
1633	2.899E+02	2.467E+01	1.241E-02	314.609
1634	2.899E+02	2.468E+01	1.250E-02	314.625
1635	2.899E+02	2.469E+01	1.259E-02	314.641

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1636	2.899E+02	2.470E+01	1.268E-02	314.657
1637	2.899E+02	2.472E+01	1.277E-02	314.673
1638	2.900E+02	2.473E+01	1.285E-02	314.689
1639	2.900E+02	2.474E+01	1.294E-02	314.705
1640	2.900E+02	2.475E+01	1.304E-02	314.721
1641	2.900E+02	2.476E+01	1.313E-02	314.737
1642	2.900E+02	2.477E+01	1.322E-02	314.753
1643	2.900E+02	2.478E+01	1.331E-02	314.769
1644	2.900E+02	2.479E+01	1.340E-02	314.785
1645	2.900E+02	2.480E+01	1.349E-02	314.801
1646	2.900E+02	2.481E+01	1.359E-02	314.817
1647	2.900E+02	2.482E+01	1.368E-02	314.833
1648	2.900E+02	2.483E+01	1.378E-02	314.849
1649	2.900E+02	2.484E+01	1.387E-02	314.865
1650	2.900E+02	2.485E+01	1.397E-02	314.881
1651	2.900E+02	2.486E+01	1.407E-02	314.897
1652	2.900E+02	2.487E+01	1.416E-02	314.913
1653	2.900E+02	2.488E+01	1.426E-02	314.929
1654	2.900E+02	2.489E+01	1.436E-02	314.945
1655	2.900E+02	2.490E+01	1.446E-02	314.961
1656	2.901E+02	2.491E+01	1.456E-02	314.976
1657	2.901E+02	2.492E+01	1.466E-02	314.992
1658	2.901E+02	2.493E+01	1.476E-02	315.008
1659	2.901E+02	2.494E+01	1.486E-02	315.024
1660	2.901E+02	2.495E+01	1.496E-02	315.040
1661	2.901E+02	2.496E+01	1.506E-02	315.056
1662	2.901E+02	2.497E+01	1.516E-02	315.072
1663	2.901E+02	2.498E+01	1.527E-02	315.087
1664	2.901E+02	2.499E+01	1.537E-02	315.103
1665	2.901E+02	2.500E+01	1.548E-02	315.119
1666	2.901E+02	2.502E+01	1.558E-02	315.135
1667	2.901E+02	2.503E+01	1.569E-02	315.151
1668	2.901E+02	2.504E+01	1.579E-02	315.166
1669	2.901E+02	2.505E+01	1.590E-02	315.182
1670	2.901E+02	2.506E+01	1.601E-02	315.198
1671	2.901E+02	2.507E+01	1.612E-02	315.214
1672	2.901E+02	2.508E+01	1.623E-02	315.229
1673	2.901E+02	2.509E+01	1.634E-02	315.245
1674	2.901E+02	2.510E+01	1.645E-02	315.261
1675	2.902E+02	2.511E+01	1.656E-02	315.277
1676	2.902E+02	2.512E+01	1.667E-02	315.292

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1677	2.902E+02	2.513E+01	1.678E-02	315.308
1678	2.902E+02	2.514E+01	1.689E-02	315.324
1679	2.902E+02	2.515E+01	1.701E-02	315.340
1680	2.902E+02	2.516E+01	1.712E-02	315.355
1681	2.902E+02	2.517E+01	1.724E-02	315.371
1682	2.902E+02	2.518E+01	1.735E-02	315.387
1683	2.902E+02	2.519E+01	1.747E-02	315.402
1684	2.902E+02	2.520E+01	1.759E-02	315.418
1685	2.902E+02	2.521E+01	1.770E-02	315.434
1686	2.902E+02	2.522E+01	1.782E-02	315.449
1687	2.902E+02	2.523E+01	1.794E-02	315.465
1688	2.902E+02	2.524E+01	1.806E-02	315.481
1689	2.902E+02	2.525E+01	1.818E-02	315.496
1690	2.902E+02	2.526E+01	1.830E-02	315.512
1691	2.902E+02	2.527E+01	1.842E-02	315.528
1692	2.902E+02	2.528E+01	1.855E-02	315.543
1693	2.902E+02	2.529E+01	1.867E-02	315.559
1694	2.903E+02	2.530E+01	1.879E-02	315.574
1695	2.903E+02	2.531E+01	1.892E-02	315.590
1696	2.903E+02	2.532E+01	1.904E-02	315.606
1697	2.903E+02	2.533E+01	1.917E-02	315.621
1698	2.903E+02	2.534E+01	1.929E-02	315.637
1699	2.903E+02	2.536E+01	1.942E-02	315.652
1700	2.903E+02	2.537E+01	1.955E-02	315.668
1701	2.903E+02	2.538E+01	1.968E-02	315.684
1702	2.903E+02	2.539E+01	1.981E-02	315.699
1703	2.903E+02	2.540E+01	1.994E-02	315.715
1704	2.903E+02	2.541E+01	2.007E-02	315.730
1705	2.903E+02	2.542E+01	2.020E-02	315.746
1706	2.903E+02	2.543E+01	2.033E-02	315.761
1707	2.903E+02	2.544E+01	2.047E-02	315.777
1708	2.903E+02	2.545E+01	2.060E-02	315.792
1709	2.903E+02	2.546E+01	2.073E-02	315.808
1710	2.903E+02	2.547E+01	2.087E-02	315.823
1711	2.903E+02	2.548E+01	2.100E-02	315.839
1712	2.903E+02	2.549E+01	2.114E-02	315.854
1713	2.903E+02	2.550E+01	2.128E-02	315.870
1714	2.904E+02	2.551E+01	2.142E-02	315.885
1715	2.904E+02	2.552E+01	2.156E-02	315.901
1716	2.904E+02	2.553E+01	2.170E-02	315.916
1717	2.904E+02	2.554E+01	2.184E-02	315.932

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1718	2.904E+02	2.555E+01	2.198E-02	315.947
1719	2.904E+02	2.556E+01	2.212E-02	315.963
1720	2.904E+02	2.557E+01	2.226E-02	315.978
1721	2.904E+02	2.558E+01	2.241E-02	315.993
1722	2.904E+02	2.559E+01	2.255E-02	316.009
1723	2.904E+02	2.560E+01	2.270E-02	316.024
1724	2.904E+02	2.561E+01	2.284E-02	316.040
1725	2.904E+02	2.562E+01	2.299E-02	316.055
1726	2.904E+02	2.563E+01	2.314E-02	316.070
1727	2.904E+02	2.564E+01	2.329E-02	316.086
1728	2.904E+02	2.565E+01	2.344E-02	316.101
1729	2.904E+02	2.566E+01	2.359E-02	316.117
1730	2.904E+02	2.567E+01	2.374E-02	316.132
1731	2.904E+02	2.568E+01	2.389E-02	316.147
1732	2.904E+02	2.569E+01	2.404E-02	316.163
1733	2.904E+02	2.570E+01	2.420E-02	316.178
1734	2.905E+02	2.572E+01	2.435E-02	316.193
1735	2.905E+02	2.573E+01	2.451E-02	316.209
1736	2.905E+02	2.574E+01	2.466E-02	316.224
1737	2.905E+02	2.575E+01	2.482E-02	316.239
1738	2.905E+02	2.576E+01	2.498E-02	316.255
1739	2.905E+02	2.577E+01	2.514E-02	316.270
1740	2.905E+02	2.578E+01	2.530E-02	316.285
1741	2.905E+02	2.579E+01	2.546E-02	316.301
1742	2.905E+02	2.580E+01	2.562E-02	316.316
1743	2.905E+02	2.581E+01	2.578E-02	316.331
1744	2.905E+02	2.582E+01	2.594E-02	316.347
1745	2.905E+02	2.583E+01	2.611E-02	316.362
1746	2.905E+02	2.584E+01	2.627E-02	316.377
1747	2.905E+02	2.585E+01	2.644E-02	316.392
1748	2.905E+02	2.586E+01	2.660E-02	316.408
1749	2.905E+02	2.587E+01	2.677E-02	316.423
1750	2.905E+02	2.588E+01	2.694E-02	316.438
1751	2.905E+02	2.589E+01	2.711E-02	316.453
1752	2.905E+02	2.590E+01	2.728E-02	316.469
1753	2.905E+02	2.591E+01	2.745E-02	316.484
1754	2.906E+02	2.592E+01	2.762E-02	316.499
1755	2.906E+02	2.593E+01	2.779E-02	316.514
1756	2.906E+02	2.594E+01	2.797E-02	316.530
1757	2.906E+02	2.595E+01	2.814E-02	316.545
1758	2.906E+02	2.596E+01	2.832E-02	316.560

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1759	2.906E+02	2.597E+01	2.849E-02	316.575
1760	2.906E+02	2.598E+01	2.867E-02	316.590
1761	2.906E+02	2.599E+01	2.885E-02	316.606
1762	2.906E+02	2.600E+01	2.903E-02	316.621
1763	2.906E+02	2.601E+01	2.921E-02	316.636
1764	2.906E+02	2.602E+01	2.939E-02	316.651
1765	2.906E+02	2.603E+01	2.957E-02	316.666
1766	2.906E+02	2.604E+01	2.976E-02	316.681
1767	2.906E+02	2.605E+01	2.994E-02	316.697
1768	2.906E+02	2.606E+01	3.013E-02	316.712
1769	2.906E+02	2.607E+01	3.031E-02	316.727
1770	2.906E+02	2.608E+01	3.050E-02	316.742
1771	2.906E+02	2.609E+01	3.069E-02	316.757
1772	2.906E+02	2.610E+01	3.088E-02	316.772
1773	2.906E+02	2.611E+01	3.107E-02	316.787
1774	2.906E+02	2.613E+01	3.126E-02	316.803
1775	2.907E+02	2.614E+01	3.145E-02	316.818
1776	2.907E+02	2.615E+01	3.164E-02	316.833
1777	2.907E+02	2.616E+01	3.184E-02	316.848
1778	2.907E+02	2.617E+01	3.203E-02	316.863
1779	2.907E+02	2.618E+01	3.223E-02	316.878
1780	2.907E+02	2.619E+01	3.242E-02	316.893
1781	2.907E+02	2.620E+01	3.262E-02	316.908
1782	2.907E+02	2.621E+01	3.282E-02	316.923
1783	2.907E+02	2.622E+01	3.302E-02	316.938
1784	2.907E+02	2.623E+01	3.322E-02	316.953
1785	2.907E+02	2.624E+01	3.343E-02	316.968
1786	2.907E+02	2.625E+01	3.363E-02	316.983
1787	2.907E+02	2.626E+01	3.383E-02	316.999
1788	2.907E+02	2.627E+01	3.404E-02	317.014
1789	2.907E+02	2.628E+01	3.425E-02	317.029
1790	2.907E+02	2.629E+01	3.445E-02	317.044
1791	2.907E+02	2.630E+01	3.466E-02	317.059
1792	2.907E+02	2.631E+01	3.487E-02	317.074
1793	2.907E+02	2.632E+01	3.508E-02	317.089
1794	2.907E+02	2.633E+01	3.529E-02	317.104
1795	2.907E+02	2.634E+01	3.551E-02	317.119
1796	2.907E+02	2.635E+01	3.572E-02	317.134
1797	2.908E+02	2.636E+01	3.594E-02	317.149
1798	2.908E+02	2.637E+01	3.615E-02	317.164
1799	2.908E+02	2.638E+01	3.637E-02	317.179

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1800	2.908E+02	2.639E+01	3.659E-02	317.194
1801	2.908E+02	2.640E+01	3.681E-02	317.209
1802	2.908E+02	2.641E+01	3.703E-02	317.224
1803	2.908E+02	2.642E+01	3.725E-02	317.238
1804	2.908E+02	2.643E+01	3.747E-02	317.253
1805	2.908E+02	2.644E+01	3.770E-02	317.268
1806	2.908E+02	2.645E+01	3.792E-02	317.283
1807	2.908E+02	2.646E+01	3.815E-02	317.298
1808	2.908E+02	2.647E+01	3.838E-02	317.313
1809	2.908E+02	2.648E+01	3.860E-02	317.328
1810	2.908E+02	2.649E+01	3.883E-02	317.343
1811	2.908E+02	2.650E+01	3.906E-02	317.358
1812	2.908E+02	2.651E+01	3.929E-02	317.373
1813	2.908E+02	2.652E+01	3.952E-02	317.387
1814	2.908E+02	2.653E+01	3.975E-02	317.402
1815	2.908E+02	2.654E+01	3.997E-02	317.416
1816	2.908E+02	2.655E+01	4.020E-02	317.430
1817	2.908E+02	2.656E+01	4.042E-02	317.444
1818	2.908E+02	2.657E+01	4.064E-02	317.458
1819	2.908E+02	2.658E+01	4.086E-02	317.472
1820	2.909E+02	2.659E+01	4.109E-02	317.485
1821	2.909E+02	2.660E+01	4.131E-02	317.499
1822	2.909E+02	2.661E+01	4.153E-02	317.513
1823	2.909E+02	2.662E+01	4.176E-02	317.526
1824	2.909E+02	2.663E+01	4.198E-02	317.540
1825	2.909E+02	2.664E+01	4.221E-02	317.553
1826	2.909E+02	2.665E+01	4.243E-02	317.567
1827	2.909E+02	2.666E+01	4.266E-02	317.580
1828	2.909E+02	2.667E+01	4.289E-02	317.594
1829	2.909E+02	2.667E+01	4.311E-02	317.607
1830	2.909E+02	2.668E+01	4.334E-02	317.621
1831	2.909E+02	2.669E+01	4.357E-02	317.634
1832	2.909E+02	2.670E+01	4.380E-02	317.648
1833	2.909E+02	2.671E+01	4.404E-02	317.661
1834	2.909E+02	2.672E+01	4.427E-02	317.674
1835	2.909E+02	2.673E+01	4.450E-02	317.688
1836	2.909E+02	2.674E+01	4.473E-02	317.701
1837	2.909E+02	2.675E+01	4.497E-02	317.715
1838	2.909E+02	2.676E+01	4.520E-02	317.728
1839	2.909E+02	2.677E+01	4.544E-02	317.741
1840	2.909E+02	2.678E+01	4.568E-02	317.754

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1841	2.909E+02	2.678E+01	4.592E-02	317.768
1842	2.909E+02	2.679E+01	4.615E-02	317.781
1843	2.909E+02	2.680E+01	4.639E-02	317.794
1844	2.909E+02	2.681E+01	4.663E-02	317.807
1845	2.910E+02	2.682E+01	4.688E-02	317.821
1846	2.910E+02	2.683E+01	4.712E-02	317.834
1847	2.910E+02	2.684E+01	4.736E-02	317.847
1848	2.910E+02	2.685E+01	4.760E-02	317.860
1849	2.910E+02	2.686E+01	4.785E-02	317.873
1850	2.910E+02	2.687E+01	4.809E-02	317.886
1851	2.910E+02	2.688E+01	4.834E-02	317.900
1852	2.910E+02	2.688E+01	4.859E-02	317.913
1853	2.910E+02	2.689E+01	4.883E-02	317.926
1854	2.910E+02	2.690E+01	4.908E-02	317.939
1855	2.910E+02	2.691E+01	4.933E-02	317.952
1856	2.910E+02	2.692E+01	4.958E-02	317.965
1857	2.910E+02	2.693E+01	4.983E-02	317.978
1858	2.910E+02	2.694E+01	5.008E-02	317.991
1859	2.910E+02	2.695E+01	5.034E-02	318.004
1860	2.910E+02	2.696E+01	5.059E-02	318.017
1861	2.910E+02	2.697E+01	5.084E-02	318.030
1862	2.910E+02	2.697E+01	5.110E-02	318.043
1863	2.910E+02	2.698E+01	5.136E-02	318.056
1864	2.910E+02	2.699E+01	5.161E-02	318.068
1865	2.910E+02	2.700E+01	5.187E-02	318.081
1866	2.910E+02	2.701E+01	5.213E-02	318.094
1867	2.910E+02	2.702E+01	5.239E-02	318.107
1868	2.910E+02	2.703E+01	5.265E-02	318.120
1869	2.910E+02	2.704E+01	5.291E-02	318.133
1870	2.910E+02	2.705E+01	5.317E-02	318.146
1871	2.911E+02	2.705E+01	5.343E-02	318.158
1872	2.911E+02	2.706E+01	5.370E-02	318.171
1873	2.911E+02	2.707E+01	5.396E-02	318.184
1874	2.911E+02	2.708E+01	5.423E-02	318.197
1875	2.911E+02	2.709E+01	5.449E-02	318.209
1876	2.911E+02	2.710E+01	5.476E-02	318.222
1877	2.911E+02	2.711E+01	5.503E-02	318.235
1878	2.911E+02	2.712E+01	5.530E-02	318.248
1879	2.911E+02	2.713E+01	5.557E-02	318.260
1880	2.911E+02	2.713E+01	5.584E-02	318.273
1881	2.911E+02	2.714E+01	5.612E-02	318.286

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1882	2.911E+02	2.715E+01	5.639E-02	318.298
1883	2.911E+02	2.716E+01	5.666E-02	318.311
1884	2.911E+02	2.717E+01	5.694E-02	318.324
1885	2.911E+02	2.718E+01	5.722E-02	318.337
1886	2.911E+02	2.719E+01	5.750E-02	318.349
1887	2.911E+02	2.720E+01	5.777E-02	318.362
1888	2.911E+02	2.720E+01	5.805E-02	318.375
1889	2.911E+02	2.721E+01	5.834E-02	318.387
1890	2.911E+02	2.722E+01	5.862E-02	318.400
1891	2.911E+02	2.723E+01	5.890E-02	318.413
1892	2.911E+02	2.724E+01	5.919E-02	318.425
1893	2.911E+02	2.725E+01	5.947E-02	318.438
1894	2.911E+02	2.726E+01	5.976E-02	318.450
1895	2.911E+02	2.727E+01	6.005E-02	318.463
1896	2.911E+02	2.728E+01	6.034E-02	318.476
1897	2.911E+02	2.728E+01	6.063E-02	318.488
1898	2.911E+02	2.729E+01	6.092E-02	318.501
1899	2.912E+02	2.730E+01	6.121E-02	318.514
1900	2.912E+02	2.731E+01	6.150E-02	318.526
1901	2.912E+02	2.732E+01	6.180E-02	318.539
1902	2.912E+02	2.733E+01	6.209E-02	318.551
1903	2.912E+02	2.734E+01	6.239E-02	318.564
1904	2.912E+02	2.735E+01	6.269E-02	318.576
1905	2.912E+02	2.735E+01	6.299E-02	318.589
1906	2.912E+02	2.736E+01	6.329E-02	318.602
1907	2.912E+02	2.737E+01	6.359E-02	318.614
1908	2.912E+02	2.738E+01	6.389E-02	318.627
1909	2.912E+02	2.739E+01	6.419E-02	318.639
1910	2.912E+02	2.740E+01	6.450E-02	318.652
1911	2.912E+02	2.741E+01	6.480E-02	318.664
1912	2.912E+02	2.742E+01	6.511E-02	318.677
1913	2.912E+02	2.742E+01	6.542E-02	318.689
1914	2.912E+02	2.743E+01	6.573E-02	318.702
1915	2.912E+02	2.744E+01	6.604E-02	318.714
1916	2.912E+02	2.745E+01	6.635E-02	318.727
1917	2.912E+02	2.746E+01	6.666E-02	318.739
1918	2.912E+02	2.747E+01	6.698E-02	318.752
1919	2.912E+02	2.748E+01	6.729E-02	318.764
1920	2.912E+02	2.749E+01	6.761E-02	318.777
1921	2.912E+02	2.749E+01	6.793E-02	318.789
1922	2.912E+02	2.750E+01	6.825E-02	318.802

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1923	2.912E+02	2.751E+01	6.857E-02	318.814
1924	2.912E+02	2.752E+01	6.889E-02	318.827
1925	2.912E+02	2.753E+01	6.921E-02	318.839
1926	2.912E+02	2.754E+01	6.953E-02	318.852
1927	2.912E+02	2.755E+01	6.986E-02	318.864
1928	2.913E+02	2.755E+01	7.018E-02	318.876
1929	2.913E+02	2.756E+01	7.051E-02	318.889
1930	2.913E+02	2.757E+01	7.084E-02	318.901
1931	2.913E+02	2.758E+01	7.116E-02	318.914
1932	2.913E+02	2.759E+01	7.149E-02	318.926
1933	2.913E+02	2.760E+01	7.182E-02	318.938
1934	2.913E+02	2.761E+01	7.215E-02	318.951
1935	2.913E+02	2.762E+01	7.249E-02	318.963
1936	2.913E+02	2.762E+01	7.282E-02	318.975
1937	2.913E+02	2.763E+01	7.315E-02	318.988
1938	2.913E+02	2.764E+01	7.349E-02	319.000
1939	2.913E+02	2.765E+01	7.382E-02	319.012
1940	2.913E+02	2.766E+01	7.416E-02	319.024
1941	2.913E+02	2.767E+01	7.450E-02	319.037
1942	2.913E+02	2.768E+01	7.484E-02	319.049
1943	2.913E+02	2.768E+01	7.518E-02	319.061
1944	2.913E+02	2.769E+01	7.552E-02	319.073
1945	2.913E+02	2.770E+01	7.586E-02	319.085
1946	2.913E+02	2.771E+01	7.620E-02	319.097
1947	2.913E+02	2.772E+01	7.655E-02	319.110
1948	2.913E+02	2.773E+01	7.689E-02	319.122
1949	2.913E+02	2.774E+01	7.724E-02	319.134
1950	2.913E+02	2.774E+01	7.758E-02	319.146
1951	2.913E+02	2.775E+01	7.793E-02	319.158
1952	2.913E+02	2.776E+01	7.828E-02	319.170
1953	2.913E+02	2.777E+01	7.863E-02	319.182
1954	2.913E+02	2.778E+01	7.898E-02	319.194
1955	2.913E+02	2.779E+01	7.933E-02	319.206
1956	2.913E+02	2.779E+01	7.968E-02	319.218
1957	2.913E+02	2.780E+01	8.003E-02	319.230
1958	2.914E+02	2.781E+01	8.039E-02	319.242
1959	2.914E+02	2.782E+01	8.074E-02	319.254
1960	2.914E+02	2.783E+01	8.110E-02	319.266
1961	2.914E+02	2.784E+01	8.145E-02	319.278
1962	2.914E+02	2.785E+01	8.181E-02	319.290
1963	2.914E+02	2.785E+01	8.217E-02	319.302

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
1964	2.914E+02	2.786E+01	8.253E-02	319.314
1965	2.914E+02	2.787E+01	8.289E-02	319.325
1966	2.914E+02	2.788E+01	8.325E-02	319.337
1967	2.914E+02	2.789E+01	8.361E-02	319.349
1968	2.914E+02	2.790E+01	8.398E-02	319.361
1969	2.914E+02	2.790E+01	8.434E-02	319.373
1970	2.914E+02	2.791E+01	8.471E-02	319.385
1971	2.914E+02	2.792E+01	8.507E-02	319.396
1972	2.914E+02	2.793E+01	8.544E-02	319.408
1973	2.914E+02	2.794E+01	8.581E-02	319.420
1974	2.914E+02	2.794E+01	8.618E-02	319.432
1975	2.914E+02	2.795E+01	8.655E-02	319.443
1976	2.914E+02	2.796E+01	8.692E-02	319.455
1977	2.914E+02	2.797E+01	8.729E-02	319.467
1978	2.914E+02	2.798E+01	8.766E-02	319.479
1979	2.914E+02	2.799E+01	8.804E-02	319.490
1980	2.914E+02	2.799E+01	8.841E-02	319.502
1981	2.914E+02	2.800E+01	8.879E-02	319.514
1982	2.914E+02	2.801E+01	8.917E-02	319.525
1983	2.914E+02	2.802E+01	8.954E-02	319.537
1984	2.914E+02	2.803E+01	8.992E-02	319.549
1985	2.914E+02	2.804E+01	9.030E-02	319.560
1986	2.914E+02	2.804E+01	9.068E-02	319.572
1987	2.914E+02	2.805E+01	9.107E-02	319.583
1988	2.914E+02	2.806E+01	9.145E-02	319.595
1989	2.914E+02	2.807E+01	9.184E-02	319.607
1990	2.914E+02	2.808E+01	9.222E-02	319.618
1991	2.915E+02	2.808E+01	9.261E-02	319.630
1992	2.915E+02	2.809E+01	9.300E-02	319.641
1993	2.915E+02	2.810E+01	9.339E-02	319.653
1994	2.915E+02	2.811E+01	9.378E-02	319.664
1995	2.915E+02	2.812E+01	9.417E-02	319.676
1996	2.915E+02	2.813E+01	9.457E-02	319.688
1997	2.915E+02	2.813E+01	9.496E-02	319.699
1998	2.915E+02	2.814E+01	9.536E-02	319.711
1999	2.915E+02	2.815E+01	9.576E-02	319.722
2000	2.915E+02	2.816E+01	9.616E-02	319.734
2001	2.915E+02	2.817E+01	9.656E-02	319.745
2002	2.915E+02	2.817E+01	9.696E-02	319.757
2003	2.915E+02	2.818E+01	9.737E-02	319.768
2004	2.915E+02	2.819E+01	9.777E-02	319.780

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	
22	-	-	-	j/kg-K
2005	2.915E+02	2.820E+01	9.818E-02	319.792
2006	2.915E+02	2.821E+01	9.859E-02	319.803
2007	2.915E+02	2.822E+01	9.900E-02	319.815
2008	2.915E+02	2.822E+01	9.941E-02	319.826
2009	2.915E+02	2.823E+01	9.982E-02	319.838
2010	2.915E+02	2.824E+01	1.002E-01	319.849
2011	2.915E+02	2.825E+01	1.006E-01	319.861
2012	2.915E+02	2.826E+01	1.011E-01	319.872
2013	2.915E+02	2.826E+01	1.015E-01	319.884
2014	2.915E+02	2.827E+01	1.019E-01	319.895
2015	2.915E+02	2.828E+01	1.023E-01	319.907
2016	2.915E+02	2.829E+01	1.027E-01	319.918
2017	2.915E+02	2.830E+01	1.032E-01	319.930
2018	2.915E+02	2.830E+01	1.036E-01	319.941
2019	2.915E+02	2.831E+01	1.040E-01	319.953
2020	2.915E+02	2.832E+01	1.044E-01	319.964
2021	2.915E+02	2.833E+01	1.049E-01	319.976
2022	2.915E+02	2.834E+01	1.053E-01	319.987
2023	2.915E+02	2.835E+01	1.057E-01	319.999

	AR	AS	AT
1			
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19	x=AQ24/1000* 0.238845896627	x=MATCH(AF24, \$I\$3:\$I\$16)	x=INDEX(\$L\$3:\$L\$16,AS24)+(AF24- INDEX(\$I\$3:\$I\$16,AS24))*(INDEX(\$L\$3:\$L\$16,AS24+1)- INDEX(\$L\$3:\$L\$16,AS24)) /(INDEX(\$I\$3:\$I\$16,AS23+1)-INDEX(\$I\$3:\$I\$16,AS23))
20	Clad CP Iterpolation		
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
23	0.058	1	0.068221116
24	0.058	1	0.068252205
25	0.059	1	0.068283214
26	0.059	1	0.068314144
27	0.059	1	0.068344995
28	0.059	1	0.068375768
29	0.059	1	0.068406465
30	0.059	1	0.068437086
31	0.059	1	0.068467633
32	0.059	1	0.068498106
33	0.059	1	0.068528507
34	0.059	1	0.068558835
35	0.059	1	0.068589093
36	0.059	1	0.068619281

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
37	0.059	1	0.0686494
38	0.059	1	0.068679449
39	0.059	1	0.068709431
40	0.059	1	0.068739346
41	0.059	1	0.068769195
42	0.059	1	0.068798978
43	0.059	1	0.068828695
44	0.059	1	0.068858348
45	0.060	1	0.068887938
46	0.060	1	0.068917464
47	0.060	1	0.068946927
48	0.060	1	0.068976329
49	0.060	1	0.069005669
50	0.060	1	0.069034948
51	0.060	1	0.069064166
52	0.060	1	0.069093324
53	0.060	1	0.069122423
54	0.060	1	0.069151463
55	0.060	1	0.069180445
56	0.060	1	0.069209368
57	0.060	1	0.069238234
58	0.060	1	0.069267043
59	0.060	1	0.069295795
60	0.060	1	0.069324491
61	0.060	1	0.06935313
62	0.060	1	0.069381715
63	0.060	1	0.069410244
64	0.060	1	0.069438718
65	0.060	1	0.069467139
66	0.060	1	0.069495505
67	0.060	1	0.069523817
68	0.060	1	0.069552077
69	0.061	1	0.069580283
70	0.061	1	0.069608437
71	0.061	1	0.069636539
72	0.061	1	0.069664589
73	0.061	1	0.069692587
74	0.061	1	0.069720534
75	0.061	1	0.06974843
76	0.061	1	0.069776275
77	0.061	1	0.06980407

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
78	0.061	1	0.069831815
79	0.061	1	0.06985951
80	0.061	1	0.069887156
81	0.061	1	0.069914752
82	0.061	1	0.0699423
83	0.061	1	0.069969799
84	0.061	1	0.06999725
85	0.061	1	0.070024652
86	0.061	1	0.070052007
87	0.061	1	0.070079314
88	0.061	1	0.070106574
89	0.061	1	0.070133787
90	0.061	1	0.070160953
91	0.061	1	0.070188073
92	0.061	1	0.070215146
93	0.061	1	0.070242173
94	0.061	1	0.070269154
95	0.061	1	0.07029609
96	0.061	1	0.07032298
97	0.062	1	0.070349825
98	0.062	1	0.070376625
99	0.062	1	0.070403381
100	0.062	1	0.070430092
101	0.062	1	0.070456758
102	0.062	1	0.070483381
103	0.062	1	0.07050996
104	0.062	1	0.070536495
105	0.062	1	0.070562987
106	0.062	1	0.070589436
107	0.062	1	0.070615842
108	0.062	1	0.070642205
109	0.062	1	0.070668525
110	0.062	1	0.070694803
111	0.062	1	0.070721039
112	0.062	1	0.070747233
113	0.062	1	0.070773386
114	0.062	1	0.070799496
115	0.062	1	0.070825566
116	0.062	1	0.070851594
117	0.062	1	0.070877581
118	0.062	1	0.070903528

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
119	0.062	1	0.070929434
120	0.062	1	0.070955299
121	0.062	1	0.070981124
122	0.062	1	0.07100691
123	0.062	1	0.071032655
124	0.062	1	0.071058361
125	0.062	1	0.071084027
126	0.062	1	0.071109655
127	0.062	1	0.071135243
128	0.062	1	0.071160792
129	0.062	1	0.071186302
130	0.063	1	0.071211774
131	0.063	1	0.071237208
132	0.063	1	0.071262603
133	0.063	1	0.07128796
134	0.063	1	0.07131328
135	0.063	1	0.071338562
136	0.063	1	0.071363806
137	0.063	1	0.071389013
138	0.063	1	0.071414183
139	0.063	1	0.071439316
140	0.063	1	0.071464412
141	0.063	1	0.071489472
142	0.063	1	0.071514495
143	0.063	1	0.071539482
144	0.063	1	0.071564433
145	0.063	1	0.071589348
146	0.063	1	0.071614227
147	0.063	1	0.071639071
148	0.063	1	0.071663879
149	0.063	1	0.071688652
150	0.063	1	0.071713391
151	0.063	1	0.071738094
152	0.063	1	0.071762762
153	0.063	1	0.071787396
154	0.063	1	0.071811996
155	0.063	1	0.071836561
156	0.063	1	0.071861092
157	0.063	1	0.071885589
158	0.063	1	0.071910053
159	0.063	1	0.071934483

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
160	0.063	1	0.07195888
161	0.063	1	0.071983244
162	0.063	1	0.072007574
163	0.063	1	0.072031872
164	0.063	1	0.072056137
165	0.063	1	0.072080369
166	0.063	1	0.072104569
167	0.063	1	0.072128737
168	0.064	2	0.072143781
169	0.064	2	0.072157651
170	0.064	2	0.072171503
171	0.064	2	0.072185337
172	0.064	2	0.072199153
173	0.064	2	0.072212952
174	0.064	2	0.072226733
175	0.064	2	0.072240497
176	0.064	2	0.072254243
177	0.064	2	0.072267972
178	0.064	2	0.072281684
179	0.064	2	0.072295379
180	0.064	2	0.072309057
181	0.064	2	0.072322718
182	0.064	2	0.072336363
183	0.064	2	0.07234999
184	0.064	2	0.072363601
185	0.064	2	0.072377196
186	0.064	2	0.072390774
187	0.064	2	0.072404336
188	0.064	2	0.072417882
189	0.064	2	0.072431411
190	0.064	2	0.072444925
191	0.064	2	0.072458422
192	0.064	2	0.072471904
193	0.064	2	0.07248537
194	0.064	2	0.07249882
195	0.064	2	0.072512255
196	0.064	2	0.072525674
197	0.064	2	0.072539078
198	0.064	2	0.072552467
199	0.064	2	0.07256584
200	0.064	2	0.072579198

Attachment 1

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
201	0.064	2	0.072592541
202	0.064	2	0.072605869
203	0.064	2	0.072619183
204	0.064	2	0.072632482
205	0.064	2	0.072645766
206	0.064	2	0.072659035
207	0.064	2	0.07267229
208	0.064	2	0.072685531
209	0.064	2	0.072698757
210	0.064	2	0.072711969
211	0.064	2	0.072725167
212	0.064	2	0.072738351
213	0.065	2	0.072751522
214	0.065	2	0.072764678
215	0.065	2	0.072777821
216	0.065	2	0.07279095
217	0.065	2	0.072804065
218	0.065	2	0.072817167
219	0.065	2	0.072830256
220	0.065	2	0.072843331
221	0.065	2	0.072856394
222	0.065	2	0.072869443
223	0.065	2	0.072882479
224	0.065	2	0.072895502
225	0.065	2	0.072908513
226	0.065	2	0.072921511
227	0.065	2	0.072934496
228	0.065	2	0.072947469
229	0.065	2	0.072960429
230	0.065	2	0.072973377
231	0.065	2	0.072986313
232	0.065	2	0.072999237
233	0.065	2	0.073012148
234	0.065	2	0.073025048
235	0.065	2	0.073037936
236	0.065	2	0.073050812
237	0.065	2	0.073063676
238	0.065	2	0.073076529
239	0.065	2	0.073089371
240	0.065	2	0.073102201
241	0.065	2	0.073115019

Attachment 1

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
242	0.065	2	0.073127827
243	0.065	2	0.073140623
244	0.065	2	0.073153408
245	0.065	2	0.073166183
246	0.065	2	0.073178947
247	0.065	2	0.0731917
248	0.065	2	0.073204442
249	0.065	2	0.073217174
250	0.065	2	0.073229895
251	0.065	2	0.073242606
252	0.065	2	0.073255307
253	0.065	2	0.073267998
254	0.065	2	0.073280678
255	0.065	2	0.073293349
256	0.065	2	0.07330601
257	0.065	2	0.073318661
258	0.065	2	0.073331303
259	0.065	2	0.073343934
260	0.065	2	0.073356557
261	0.065	2	0.07336917
262	0.065	2	0.073381774
263	0.065	2	0.073394368
264	0.065	2	0.073406953
265	0.065	2	0.07341953
266	0.065	2	0.073432097
267	0.066	2	0.073444656
268	0.066	2	0.073457206
269	0.066	2	0.073469747
270	0.066	2	0.073482279
271	0.066	2	0.073494804
272	0.066	2	0.073507319
273	0.066	2	0.073519827
274	0.066	2	0.073532326
275	0.066	2	0.073544817
276	0.066	2	0.0735573
277	0.066	2	0.073569775
278	0.066	2	0.073582243
279	0.066	2	0.073594702
280	0.066	2	0.073607154
281	0.066	2	0.073619598
282	0.066	2	0.073632035

Attachment 1

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
283	0.066	2	0.073644465
284	0.066	2	0.073656887
285	0.066	2	0.073669301
286	0.066	2	0.073681709
287	0.066	2	0.073694109
288	0.066	2	0.073706503
289	0.066	2	0.07371889
290	0.066	2	0.073731269
291	0.066	2	0.073743642
292	0.066	2	0.073756009
293	0.066	2	0.073768369
294	0.066	2	0.073780722
295	0.066	2	0.073793069
296	0.066	2	0.07380541
297	0.066	2	0.073817744
298	0.066	2	0.073830072
299	0.066	2	0.073842394
300	0.066	2	0.07385471
301	0.066	2	0.073867021
302	0.066	2	0.073879325
303	0.066	2	0.073891624
304	0.066	2	0.073903917
305	0.066	2	0.073916204
306	0.066	2	0.073928486
307	0.066	2	0.073940762
308	0.066	2	0.073953033
309	0.066	2	0.073965299
310	0.066	2	0.073977559
311	0.066	2	0.073989815
312	0.066	2	0.074002065
313	0.066	2	0.07401431
314	0.066	2	0.074026551
315	0.066	2	0.074038786
316	0.066	2	0.074051017
317	0.066	2	0.074063243
318	0.066	2	0.074075465
319	0.066	2	0.074087682
320	0.066	2	0.074099894
321	0.066	2	0.074112102
322	0.066	2	0.074124306
323	0.066	2	0.074136505

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
324	0.066	2	0.074148701
325	0.066	2	0.074160892
326	0.066	2	0.074173079
327	0.066	2	0.074185262
328	0.066	2	0.074197441
329	0.066	2	0.074209616
330	0.066	2	0.074221788
331	0.067	2	0.074233956
332	0.067	2	0.07424612
333	0.067	2	0.07425828
334	0.067	2	0.074270437
335	0.067	2	0.074282591
336	0.067	2	0.074294741
337	0.067	2	0.074306888
338	0.067	2	0.074319031
339	0.067	2	0.074331171
340	0.067	2	0.074343308
341	0.067	2	0.074355442
342	0.067	2	0.074367573
343	0.067	2	0.074379701
344	0.067	2	0.074391827
345	0.067	2	0.074403949
346	0.067	2	0.074416068
347	0.067	2	0.074428185
348	0.067	2	0.074440299
349	0.067	2	0.07445241
350	0.067	2	0.074464519
351	0.067	2	0.074476625
352	0.067	2	0.074488729
353	0.067	2	0.07450083
354	0.067	2	0.074512929
355	0.067	2	0.074525026
356	0.067	2	0.07453712
357	0.067	2	0.074549212
358	0.067	2	0.074561302
359	0.067	2	0.07457339
360	0.067	2	0.074585476
361	0.067	2	0.07459756
362	0.067	2	0.074609641
363	0.067	2	0.074621721
364	0.067	2	0.074633799

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
365	0.067	2	0.074645876
366	0.067	2	0.07465795
367	0.067	2	0.074670023
368	0.067	2	0.074682093
369	0.067	2	0.074694163
370	0.067	2	0.07470623
371	0.067	2	0.074718297
372	0.067	2	0.074730361
373	0.067	2	0.074742424
374	0.067	2	0.074754486
375	0.067	2	0.074766546
376	0.067	2	0.074778605
377	0.067	2	0.074790662
378	0.067	2	0.074802719
379	0.067	2	0.074814774
380	0.067	2	0.074826827
381	0.067	2	0.07483888
382	0.067	2	0.074850932
383	0.067	2	0.074862982
384	0.067	2	0.074875031
385	0.067	2	0.074887079
386	0.067	2	0.074899126
387	0.067	2	0.074911173
388	0.067	2	0.074923218
389	0.067	2	0.074935262
390	0.067	2	0.074947306
391	0.067	2	0.074959348
392	0.067	2	0.07497139
393	0.067	2	0.074983431
394	0.067	2	0.074995472
395	0.067	2	0.075007511
396	0.067	2	0.07501955
397	0.067	2	0.075031588
398	0.067	2	0.075043625
399	0.067	2	0.075055662
400	0.067	2	0.075067698
401	0.067	2	0.075079734
402	0.067	2	0.075091769
403	0.067	2	0.075103804
404	0.067	2	0.075115838
405	0.067	2	0.075127871

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
406	0.067	2	0.075139905
407	0.068	2	0.075151937
408	0.068	2	0.07516397
409	0.068	2	0.075176001
410	0.068	2	0.075188033
411	0.068	2	0.075200064
412	0.068	2	0.075212095
413	0.068	2	0.075224125
414	0.068	2	0.075236155
415	0.068	2	0.075248185
416	0.068	2	0.075260215
417	0.068	2	0.075272244
418	0.068	2	0.075284273
419	0.068	2	0.075296302
420	0.068	2	0.075308331
421	0.068	2	0.075320359
422	0.068	2	0.075332388
423	0.068	2	0.075344416
424	0.068	2	0.075356444
425	0.068	2	0.075368472
426	0.068	2	0.0753805
427	0.068	2	0.075392527
428	0.068	2	0.075404555
429	0.068	2	0.075416583
430	0.068	2	0.07542861
431	0.068	2	0.075440637
432	0.068	2	0.075452665
433	0.068	2	0.075464692
434	0.068	2	0.075476719
435	0.068	2	0.075488746
436	0.068	2	0.075500774
437	0.068	2	0.075512801
438	0.068	2	0.075524828
439	0.068	2	0.075536855
440	0.068	2	0.075548882
441	0.068	2	0.07556091
442	0.068	2	0.075572937
443	0.068	2	0.075584964
444	0.068	2	0.075596992
445	0.068	2	0.075609019
446	0.068	2	0.075621047

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
447	0.068	2	0.075633074
448	0.068	2	0.075645102
449	0.068	2	0.075657129
450	0.068	2	0.075669157
451	0.068	2	0.075681185
452	0.068	2	0.075693213
453	0.068	2	0.075705241
454	0.068	2	0.075717269
455	0.068	2	0.075729297
456	0.068	2	0.075741325
457	0.068	2	0.075753354
458	0.068	2	0.075765382
459	0.068	2	0.075777411
460	0.068	2	0.075789439
461	0.068	2	0.075801468
462	0.068	2	0.075813497
463	0.068	2	0.075825526
464	0.068	2	0.075837555
465	0.068	2	0.075849584
466	0.068	2	0.075861613
467	0.068	2	0.075873642
468	0.068	2	0.075885672
469	0.068	2	0.075897701
470	0.068	2	0.075909731
471	0.068	2	0.075921761
472	0.068	2	0.07593379
473	0.068	2	0.07594582
474	0.068	2	0.07595785
475	0.068	2	0.07596988
476	0.068	2	0.07598191
477	0.068	2	0.075993941
478	0.068	2	0.076005971
479	0.068	2	0.076018001
480	0.068	2	0.076030032
481	0.068	2	0.076042062
482	0.068	2	0.076054093
483	0.068	2	0.076066123
484	0.068	2	0.076078154
485	0.068	2	0.076090185
486	0.068	2	0.076102216
487	0.068	2	0.076114247

Attachment 1

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
488	0.068	2	0.076126277
489	0.068	2	0.076138308
490	0.068	2	0.076150339
491	0.068	2	0.07616237
492	0.068	2	0.076174401
493	0.068	2	0.076186432
494	0.068	2	0.076198463
495	0.069	2	0.076210495
496	0.069	2	0.076222526
497	0.069	2	0.076234557
498	0.069	2	0.076246588
499	0.069	2	0.076258619
500	0.069	2	0.07627065
501	0.069	2	0.076282681
502	0.069	2	0.076294712
503	0.069	2	0.076306743
504	0.069	2	0.076318774
505	0.069	2	0.076330804
506	0.069	2	0.076342835
507	0.069	2	0.076354866
508	0.069	2	0.076366897
509	0.069	2	0.076378927
510	0.069	2	0.076390958
511	0.069	2	0.076402988
512	0.069	2	0.076415018
513	0.069	2	0.076427049
514	0.069	2	0.076439079
515	0.069	2	0.076451109
516	0.069	2	0.076463139
517	0.069	2	0.076475168
518	0.069	2	0.076487198
519	0.069	2	0.076499228
520	0.069	2	0.076511257
521	0.069	2	0.076523286
522	0.069	2	0.076535315
523	0.069	2	0.076547344
524	0.069	2	0.076559373
525	0.069	2	0.076571401
526	0.069	2	0.07658343
527	0.069	2	0.076595458
528	0.069	2	0.076607486

Attachment 1

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
529	0.069	2	0.076619514
530	0.069	2	0.076631541
531	0.069	2	0.076643568
532	0.069	2	0.076655595
533	0.069	2	0.076667622
534	0.069	2	0.076679649
535	0.069	2	0.076691675
536	0.069	2	0.076703701
537	0.069	2	0.076715727
538	0.069	2	0.076727753
539	0.069	2	0.076739778
540	0.069	2	0.076751803
541	0.069	2	0.076763828
542	0.069	2	0.076775852
543	0.069	2	0.076787876
544	0.069	2	0.0767999
545	0.069	2	0.076811923
546	0.069	2	0.076823946
547	0.069	2	0.076835969
548	0.069	2	0.076847992
549	0.069	2	0.076860014
550	0.069	2	0.076872036
551	0.069	2	0.076884057
552	0.069	2	0.076896078
553	0.069	2	0.076908099
554	0.069	2	0.076920119
555	0.069	2	0.076932139
556	0.069	2	0.076944158
557	0.069	2	0.076956177
558	0.069	2	0.076968196
559	0.069	2	0.076980214
560	0.069	2	0.076992232
561	0.069	2	0.077004249
562	0.069	2	0.077016266
563	0.069	2	0.077028283
564	0.069	2	0.077040299
565	0.069	2	0.077052314
566	0.069	2	0.077064329
567	0.069	2	0.077076344
568	0.069	2	0.077088358
569	0.069	2	0.077100372

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
570	0.069	2	0.077112385
571	0.069	2	0.077124398
572	0.069	2	0.07713641
573	0.069	2	0.077148422
574	0.069	2	0.077160433
575	0.069	2	0.077172443
576	0.069	2	0.077184454
577	0.069	2	0.077196463
578	0.069	2	0.077208472
579	0.069	2	0.077220481
580	0.069	2	0.077232489
581	0.069	2	0.077244496
582	0.069	2	0.077256503
583	0.069	2	0.077268509
584	0.069	2	0.077280515
585	0.069	2	0.07729252
586	0.069	2	0.077304524
587	0.069	2	0.077316528
588	0.069	2	0.077328532
589	0.069	2	0.077340534
590	0.069	2	0.077352537
591	0.069	2	0.077364538
592	0.069	2	0.077376539
593	0.069	2	0.077388539
594	0.069	2	0.077400539
595	0.069	2	0.077412538
596	0.069	2	0.077424536
597	0.069	2	0.077436534
598	0.070	2	0.077448531
599	0.070	2	0.077460527
600	0.070	2	0.077472523
601	0.070	2	0.077484518
602	0.070	2	0.077496513
603	0.070	2	0.077508506
604	0.070	2	0.0775205
605	0.070	2	0.077532492
606	0.070	2	0.077544484
607	0.070	2	0.077556475
608	0.070	2	0.077568465
609	0.070	2	0.077580454
610	0.070	2	0.077592443

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
611	0.070	2	0.077604431
612	0.070	2	0.077616419
613	0.070	2	0.077628406
614	0.070	2	0.077640392
615	0.070	2	0.077652377
616	0.070	2	0.077664361
617	0.070	2	0.077676345
618	0.070	2	0.077688328
619	0.070	2	0.07770031
620	0.070	2	0.077712292
621	0.070	2	0.077724273
622	0.070	2	0.077736253
623	0.070	2	0.077748232
624	0.070	2	0.07776021
625	0.070	2	0.077772188
626	0.070	2	0.077784165
627	0.070	2	0.077796141
628	0.070	2	0.077808117
629	0.070	2	0.077820091
630	0.070	2	0.077832065
631	0.070	2	0.077844038
632	0.070	2	0.07785601
633	0.070	2	0.077867982
634	0.070	2	0.077879952
635	0.070	2	0.077891922
636	0.070	2	0.077903891
637	0.070	2	0.077915859
638	0.070	2	0.077927826
639	0.070	2	0.077939793
640	0.070	2	0.077951758
641	0.070	2	0.077963723
642	0.070	2	0.077975687
643	0.070	2	0.07798765
644	0.070	2	0.077999613
645	0.070	2	0.078011574
646	0.070	2	0.078023535
647	0.070	2	0.078035495
648	0.070	2	0.078047454
649	0.070	2	0.078059412
650	0.070	2	0.078071369
651	0.070	2	0.078083325

Attachment 1

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
652	0.070	2	0.078095281
653	0.070	2	0.078107235
654	0.070	2	0.078119189
655	0.070	2	0.078131142
656	0.070	2	0.078143094
657	0.070	2	0.078155045
658	0.070	2	0.078166995
659	0.070	2	0.078178945
660	0.070	2	0.078190893
661	0.070	2	0.078202841
662	0.070	2	0.078214787
663	0.070	2	0.078226733
664	0.070	2	0.078238678
665	0.070	2	0.078250622
666	0.070	2	0.078262565
667	0.070	2	0.078274507
668	0.070	2	0.078286449
669	0.070	2	0.078298389
670	0.070	2	0.078310328
671	0.070	2	0.078322267
672	0.070	2	0.078334205
673	0.070	2	0.078346141
674	0.070	2	0.078358077
675	0.070	2	0.078370012
676	0.070	2	0.078381946
677	0.070	2	0.078393879
678	0.070	2	0.078405811
679	0.070	2	0.078417742
680	0.070	2	0.078429672
681	0.070	2	0.078441602
682	0.070	2	0.07845353
683	0.070	2	0.078465457
684	0.070	2	0.078477384
685	0.070	2	0.07848931
686	0.070	2	0.078501234
687	0.070	2	0.078513158
688	0.070	2	0.07852508
689	0.070	2	0.078537002
690	0.070	2	0.078548923
691	0.070	2	0.078560843
692	0.070	2	0.078572762

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
693	0.070	2	0.07858468
694	0.070	2	0.078596597
695	0.070	2	0.078608513
696	0.070	2	0.078620428
697	0.070	2	0.078632342
698	0.070	2	0.078644255
699	0.070	2	0.078656167
700	0.070	2	0.078668078
701	0.070	2	0.078679989
702	0.070	2	0.078691898
703	0.070	2	0.078703806
704	0.070	2	0.078715713
705	0.070	2	0.07872762
706	0.070	2	0.078739525
707	0.070	2	0.07875143
708	0.070	2	0.078763333
709	0.070	2	0.078775235
710	0.070	2	0.078787137
711	0.070	2	0.078799037
712	0.070	2	0.078810937
713	0.070	2	0.078822835
714	0.070	2	0.078834733
715	0.070	2	0.078846629
716	0.070	2	0.078858525
717	0.070	2	0.078870419
718	0.070	2	0.078882313
719	0.070	2	0.078894205
720	0.070	2	0.078906097
721	0.071	2	0.078917988
722	0.071	2	0.078929877
723	0.071	2	0.078941766
724	0.071	2	0.078953653
725	0.071	2	0.07896554
726	0.071	2	0.078977425
727	0.071	2	0.07898931
728	0.071	2	0.079001194
729	0.071	2	0.079013076
730	0.071	2	0.079024958
731	0.071	2	0.079036838
732	0.071	2	0.079048718
733	0.071	3	0.079060099

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
734	0.071	3	0.079069711
735	0.071	3	0.079079321
736	0.071	3	0.079088931
737	0.071	3	0.07909854
738	0.071	3	0.079108148
739	0.071	3	0.079117756
740	0.071	3	0.079127362
741	0.071	3	0.079136968
742	0.071	3	0.079146573
743	0.071	3	0.079156178
744	0.071	3	0.079165781
745	0.071	3	0.079175384
746	0.071	3	0.079184986
747	0.071	3	0.079194587
748	0.071	3	0.079204188
749	0.071	3	0.079213787
750	0.071	3	0.079223386
751	0.071	3	0.079232984
752	0.071	3	0.079242582
753	0.071	3	0.079252178
754	0.071	3	0.079261774
755	0.071	3	0.079271369
756	0.071	3	0.079280963
757	0.071	3	0.079290557
758	0.071	3	0.079300149
759	0.071	3	0.079309741
760	0.071	3	0.079319332
761	0.071	3	0.079328922
762	0.071	3	0.079338512
763	0.071	3	0.079348101
764	0.071	3	0.079357689
765	0.071	3	0.079367276
766	0.071	3	0.079376862
767	0.071	3	0.079386448
768	0.071	3	0.079396033
769	0.071	3	0.079405617
770	0.071	3	0.0794152
771	0.071	3	0.079424783
772	0.071	3	0.079434365
773	0.071	3	0.079443946
774	0.071	3	0.079453526

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
775	0.071	3	0.079463105
776	0.071	3	0.079472684
777	0.071	3	0.079482262
778	0.071	3	0.079491839
779	0.071	3	0.079501415
780	0.071	3	0.079510991
781	0.071	3	0.079520566
782	0.071	3	0.07953014
783	0.071	3	0.079539713
784	0.071	3	0.079549285
785	0.071	3	0.079558857
786	0.071	3	0.079568428
787	0.071	3	0.079577998
788	0.071	3	0.079587567
789	0.071	3	0.079597136
790	0.071	3	0.079606703
791	0.071	3	0.07961627
792	0.071	3	0.079625837
793	0.071	3	0.079635402
794	0.071	3	0.079644967
795	0.071	3	0.07965453
796	0.071	3	0.079664093
797	0.071	3	0.079673656
798	0.071	3	0.079683217
799	0.071	3	0.079692778
800	0.071	3	0.079702338
801	0.071	3	0.079711897
802	0.071	3	0.079721455
803	0.071	3	0.079731013
804	0.071	3	0.07974057
805	0.071	3	0.079750126
806	0.071	3	0.079759681
807	0.071	3	0.079769235
808	0.071	3	0.079778789
809	0.071	3	0.079788342
810	0.071	3	0.079797894
811	0.071	3	0.079807445
812	0.071	3	0.079816996
813	0.071	3	0.079826546
814	0.071	3	0.079836094
815	0.071	3	0.079845643

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
816	0.071	3	0.07985519
817	0.071	3	0.079864737
818	0.071	3	0.079874282
819	0.071	3	0.079883827
820	0.071	3	0.079893372
821	0.071	3	0.079902915
822	0.071	3	0.079912458
823	0.071	3	0.079922
824	0.071	3	0.079931541
825	0.071	3	0.079941081
826	0.071	3	0.079950621
827	0.071	3	0.079960159
828	0.071	3	0.079969697
829	0.071	3	0.079979234
830	0.071	3	0.079988771
831	0.071	3	0.079998306
832	0.071	3	0.080007841
833	0.071	3	0.080017375
834	0.071	3	0.080026908
835	0.071	3	0.080036441
836	0.071	3	0.080045973
837	0.071	3	0.080055503
838	0.071	3	0.080065033
839	0.071	3	0.080074563
840	0.071	3	0.080084091
841	0.071	3	0.080093619
842	0.071	3	0.080103146
843	0.071	3	0.080112672
844	0.071	3	0.080122197
845	0.071	3	0.080131722
846	0.071	3	0.080141246
847	0.071	3	0.080150769
848	0.071	3	0.080160291
849	0.071	3	0.080169813
850	0.071	3	0.080179333
851	0.071	3	0.080188853
852	0.071	3	0.080198372
853	0.071	3	0.08020789
854	0.071	3	0.080217408
855	0.071	3	0.080226925
856	0.071	3	0.080236441

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
857	0.071	3	0.080245956
858	0.071	3	0.08025547
859	0.071	3	0.080264984
860	0.071	3	0.080274496
861	0.071	3	0.080284008
862	0.071	3	0.08029352
863	0.071	3	0.08030303
864	0.071	3	0.08031254
865	0.071	3	0.080322049
866	0.071	3	0.080331557
867	0.071	3	0.080341064
868	0.072	3	0.08035057
869	0.072	3	0.080360076
870	0.072	3	0.080369581
871	0.072	3	0.080379085
872	0.072	3	0.080388588
873	0.072	3	0.080398091
874	0.072	3	0.080407593
875	0.072	3	0.080417094
876	0.072	3	0.080426594
877	0.072	3	0.080436093
878	0.072	3	0.080445592
879	0.072	3	0.08045509
880	0.072	3	0.080464587
881	0.072	3	0.080474083
882	0.072	3	0.080483579
883	0.072	3	0.080493074
884	0.072	3	0.080502567
885	0.072	3	0.080512061
886	0.072	3	0.080521553
887	0.072	3	0.080531045
888	0.072	3	0.080540535
889	0.072	3	0.080550025
890	0.072	3	0.080559515
891	0.072	3	0.080569003
892	0.072	3	0.080578491
893	0.072	3	0.080587978
894	0.072	3	0.080597464
895	0.072	3	0.080606949
896	0.072	3	0.080616433
897	0.072	3	0.080625917

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
898	0.072	3	0.0806354
899	0.072	3	0.080644882
900	0.072	3	0.080654364
901	0.072	3	0.080663844
902	0.072	3	0.080673324
903	0.072	3	0.080682803
904	0.072	3	0.080692281
905	0.072	3	0.080701759
906	0.072	3	0.080711236
907	0.072	3	0.080720711
908	0.072	3	0.080730187
909	0.072	3	0.080739661
910	0.072	3	0.080749135
911	0.072	3	0.080758607
912	0.072	3	0.080768079
913	0.072	3	0.080777551
914	0.072	3	0.080787021
915	0.072	3	0.080796491
916	0.072	3	0.08080596
917	0.072	3	0.080815428
918	0.072	3	0.080824895
919	0.072	3	0.080834362
920	0.072	3	0.080843827
921	0.072	3	0.080853292
922	0.072	3	0.080862756
923	0.072	3	0.08087222
924	0.072	3	0.080881683
925	0.072	3	0.080891144
926	0.072	3	0.080900606
927	0.072	3	0.080910066
928	0.072	3	0.080919525
929	0.072	3	0.080928984
930	0.072	3	0.080938442
931	0.072	3	0.080947899
932	0.072	3	0.080957356
933	0.072	3	0.080966811
934	0.072	3	0.080976266
935	0.072	3	0.08098572
936	0.072	3	0.080995174
937	0.072	3	0.081004626
938	0.072	3	0.081014078

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
939	0.072	3	0.081023529
940	0.072	3	0.081032979
941	0.072	3	0.081042429
942	0.072	3	0.081051877
943	0.072	3	0.081061325
944	0.072	3	0.081070772
945	0.072	3	0.081080218
946	0.072	3	0.081089664
947	0.072	3	0.081099109
948	0.072	3	0.081108553
949	0.072	3	0.081117996
950	0.072	3	0.081127438
951	0.072	3	0.08113688
952	0.072	3	0.081146321
953	0.072	3	0.081155761
954	0.072	3	0.081165201
955	0.072	3	0.081174639
956	0.072	3	0.081184077
957	0.072	3	0.081193514
958	0.072	3	0.08120295
959	0.072	3	0.081212386
960	0.072	3	0.08122182
961	0.072	3	0.081231254
962	0.072	3	0.081240688
963	0.072	3	0.08125012
964	0.072	3	0.081259552
965	0.072	3	0.081268983
966	0.072	3	0.081278413
967	0.072	3	0.081287842
968	0.072	3	0.08129727
969	0.072	3	0.081306698
970	0.072	3	0.081316125
971	0.072	3	0.081325552
972	0.072	3	0.081334977
973	0.072	3	0.081344402
974	0.072	3	0.081353826
975	0.072	3	0.081363249
976	0.072	3	0.081372671
977	0.072	3	0.081382093
978	0.072	3	0.081391514
979	0.072	3	0.081400934

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
980	0.072	3	0.081410353
981	0.072	3	0.081419772
982	0.072	3	0.08142919
983	0.072	3	0.081438607
984	0.072	3	0.081448023
985	0.072	3	0.081457438
986	0.072	3	0.081466853
987	0.072	3	0.081476267
988	0.072	3	0.08148568
989	0.072	3	0.081495093
990	0.072	3	0.081504504
991	0.072	3	0.081513915
992	0.072	3	0.081523325
993	0.072	3	0.081532735
994	0.072	3	0.081542143
995	0.072	3	0.081551551
996	0.072	3	0.081560958
997	0.072	3	0.081570365
998	0.072	3	0.08157977
999	0.072	3	0.081589175
1000	0.072	3	0.081598579
1001	0.072	3	0.081607982
1002	0.072	3	0.081617385
1003	0.072	3	0.081626787
1004	0.072	3	0.081636187
1005	0.072	3	0.081645588
1006	0.072	3	0.081654987
1007	0.072	3	0.081664386
1008	0.072	3	0.081673784
1009	0.072	3	0.081683181
1010	0.072	3	0.081692577
1011	0.072	3	0.081701973
1012	0.072	3	0.081711368
1013	0.072	3	0.081720762
1014	0.072	3	0.081730156
1015	0.072	3	0.081739548
1016	0.072	3	0.08174894
1017	0.072	3	0.081758331
1018	0.072	3	0.081767721
1019	0.072	3	0.081777111
1020	0.072	3	0.0817865

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	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1021	0.072	3	0.081795888
1022	0.072	3	0.081805275
1023	0.072	3	0.081814662
1024	0.072	3	0.081824048
1025	0.072	3	0.081833433
1026	0.072	3	0.081842817
1027	0.072	3	0.081852201
1028	0.072	3	0.081861583
1029	0.072	3	0.081870965
1030	0.072	3	0.081880347
1031	0.072	3	0.081889727
1032	0.072	3	0.081899107
1033	0.072	3	0.081908486
1034	0.072	3	0.081917864
1035	0.072	3	0.081927242
1036	0.072	3	0.081936618
1037	0.072	3	0.081945994
1038	0.072	3	0.08195537
1039	0.072	3	0.081964744
1040	0.072	3	0.081974118
1041	0.072	3	0.081983491
1042	0.072	3	0.081992863
1043	0.072	3	0.082002235
1044	0.073	3	0.082011605
1045	0.073	3	0.082020975
1046	0.073	3	0.082030345
1047	0.073	3	0.082039713
1048	0.073	3	0.082049081
1049	0.073	3	0.082058448
1050	0.073	3	0.082067814
1051	0.073	3	0.08207718
1052	0.073	3	0.082086544
1053	0.073	3	0.082095908
1054	0.073	3	0.082105272
1055	0.073	3	0.082114634
1056	0.073	3	0.082123996
1057	0.073	3	0.082133357
1058	0.073	3	0.082142717
1059	0.073	3	0.082152077
1060	0.073	3	0.082161435
1061	0.073	3	0.082170793

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1062	0.073	3	0.082180151
1063	0.073	3	0.082189507
1064	0.073	3	0.082198863
1065	0.073	3	0.082208218
1066	0.073	3	0.082217572
1067	0.073	3	0.082226926
1068	0.073	3	0.082236279
1069	0.073	3	0.082245631
1070	0.073	3	0.082254982
1071	0.073	3	0.082264333
1072	0.073	3	0.082273683
1073	0.073	3	0.082283032
1074	0.073	3	0.08229238
1075	0.073	3	0.082301728
1076	0.073	3	0.082311074
1077	0.073	3	0.082320421
1078	0.073	3	0.082329766
1079	0.073	3	0.082339111
1080	0.073	3	0.082348454
1081	0.073	3	0.082357798
1082	0.073	3	0.08236714
1083	0.073	3	0.082376482
1084	0.073	3	0.082385823
1085	0.073	3	0.082395163
1086	0.073	3	0.082404502
1087	0.073	3	0.082413841
1088	0.073	3	0.082423179
1089	0.073	3	0.082432516
1090	0.073	3	0.082441853
1091	0.073	3	0.082451189
1092	0.073	3	0.082460524
1093	0.073	3	0.082469858
1094	0.073	3	0.082479191
1095	0.073	3	0.082488524
1096	0.073	3	0.082497856
1097	0.073	3	0.082507188
1098	0.073	3	0.082516518
1099	0.073	3	0.082525848
1100	0.073	3	0.082535177
1101	0.073	3	0.082544506
1102	0.073	3	0.082553833

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1103	0.073	3	0.08256316
1104	0.073	3	0.082572487
1105	0.073	3	0.082581812
1106	0.073	3	0.082591137
1107	0.073	3	0.082600461
1108	0.073	3	0.082609784
1109	0.073	3	0.082619107
1110	0.073	3	0.082628429
1111	0.073	3	0.08263775
1112	0.073	3	0.08264707
1113	0.073	3	0.08265639
1114	0.073	3	0.082665708
1115	0.073	3	0.082675027
1116	0.073	3	0.082684344
1117	0.073	3	0.082693661
1118	0.073	3	0.082702977
1119	0.073	3	0.082712292
1120	0.073	3	0.082721607
1121	0.073	3	0.08273092
1122	0.073	3	0.082740233
1123	0.073	3	0.082749546
1124	0.073	3	0.082758857
1125	0.073	3	0.082768168
1126	0.073	3	0.082777478
1127	0.073	3	0.082786788
1128	0.073	3	0.082796096
1129	0.073	3	0.082805404
1130	0.073	3	0.082814712
1131	0.073	3	0.082824018
1132	0.073	3	0.082833324
1133	0.073	3	0.082842629
1134	0.073	3	0.082851933
1135	0.073	3	0.082861237
1136	0.073	3	0.08287054
1137	0.073	3	0.082879842
1138	0.073	3	0.082889143
1139	0.073	3	0.082898444
1140	0.073	3	0.082907744
1141	0.073	3	0.082917043
1142	0.073	3	0.082926342
1143	0.073	3	0.08293564

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1144	0.073	3	0.082944937
1145	0.073	3	0.082954233
1146	0.073	3	0.082963529
1147	0.073	3	0.082972824
1148	0.073	3	0.082982118
1149	0.073	3	0.082991412
1150	0.073	3	0.083000704
1151	0.073	3	0.083009996
1152	0.073	3	0.083019288
1153	0.073	3	0.083028578
1154	0.073	3	0.083037868
1155	0.073	3	0.083047158
1156	0.073	3	0.083056446
1157	0.073	3	0.083065734
1158	0.073	3	0.083075021
1159	0.073	3	0.083084307
1160	0.073	3	0.083093593
1161	0.073	3	0.083102878
1162	0.073	3	0.083112162
1163	0.073	3	0.083121445
1164	0.073	3	0.083130728
1165	0.073	3	0.08314001
1166	0.073	3	0.083149291
1167	0.073	3	0.083158572
1168	0.073	3	0.083167852
1169	0.073	3	0.083177131
1170	0.073	3	0.083186409
1171	0.073	3	0.083195687
1172	0.073	3	0.083204964
1173	0.073	3	0.08321424
1174	0.073	3	0.083223516
1175	0.073	3	0.083232791
1176	0.073	3	0.083242065
1177	0.073	3	0.083251338
1178	0.073	3	0.083260611
1179	0.073	3	0.083269883
1180	0.073	3	0.083279155
1181	0.073	3	0.083288425
1182	0.073	3	0.083297695
1183	0.073	3	0.083306964
1184	0.073	3	0.083316233

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1185	0.073	3	0.083325501
1186	0.073	3	0.083334768
1187	0.073	3	0.083344034
1188	0.073	3	0.0833533
1189	0.073	3	0.083362564
1190	0.073	3	0.083371829
1191	0.073	3	0.083381092
1192	0.073	3	0.083390355
1193	0.073	3	0.083399617
1194	0.073	3	0.083408879
1195	0.073	3	0.083418139
1196	0.073	3	0.083427399
1197	0.073	3	0.083436658
1198	0.073	3	0.083445917
1199	0.073	3	0.083455175
1200	0.073	3	0.083464432
1201	0.073	3	0.083473689
1202	0.073	3	0.083482944
1203	0.073	3	0.083492199
1204	0.073	3	0.083501454
1205	0.073	3	0.083510707
1206	0.073	3	0.08351996
1207	0.073	3	0.083529212
1208	0.073	3	0.083538464
1209	0.073	3	0.083547715
1210	0.073	3	0.083556965
1211	0.073	3	0.083566214
1212	0.073	3	0.083575463
1213	0.073	3	0.083584711
1214	0.073	3	0.083593958
1215	0.073	3	0.083603205
1216	0.073	3	0.083612451
1217	0.073	3	0.083621696
1218	0.073	3	0.083630941
1219	0.073	3	0.083640184
1220	0.073	3	0.083649428
1221	0.073	3	0.08365867
1222	0.073	3	0.083667912
1223	0.073	3	0.083677153
1224	0.073	3	0.083686393
1225	0.073	3	0.083695633

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1226	0.073	3	0.083704872
1227	0.073	3	0.08371411
1228	0.073	3	0.083723668
1229	0.073	3	0.083733453
1230	0.073	3	0.083743397
1231	0.073	3	0.083753453
1232	0.073	3	0.083763588
1233	0.073	3	0.083773777
1234	0.073	3	0.083784005
1235	0.073	3	0.083794259
1236	0.073	3	0.083804531
1237	0.073	3	0.083814816
1238	0.073	3	0.08382511
1239	0.073	3	0.083835409
1240	0.073	3	0.083845712
1241	0.073	3	0.083856017
1242	0.073	3	0.083866323
1243	0.073	3	0.08387663
1244	0.073	3	0.083886937
1245	0.073	3	0.083897243
1246	0.073	3	0.083907549
1247	0.073	3	0.083917855
1248	0.073	3	0.083928159
1249	0.073	3	0.083938463
1250	0.073	3	0.083948766
1251	0.074	3	0.083959068
1252	0.074	3	0.083969369
1253	0.074	3	0.083979669
1254	0.074	3	0.083989968
1255	0.074	3	0.084000266
1256	0.074	3	0.084010563
1257	0.074	3	0.084020859
1258	0.074	3	0.084031154
1259	0.074	3	0.084041447
1260	0.074	3	0.08405174
1261	0.074	3	0.084062032
1262	0.074	3	0.084072323
1263	0.074	3	0.084082613
1264	0.074	3	0.084092902
1265	0.074	3	0.084103189
1266	0.074	3	0.084113476

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1267	0.074	3	0.084123762
1268	0.074	3	0.084134047
1269	0.074	3	0.08414433
1270	0.074	3	0.084154613
1271	0.074	3	0.084164895
1272	0.074	3	0.084175175
1273	0.074	3	0.084185455
1274	0.074	3	0.084195733
1275	0.074	3	0.084206011
1276	0.074	3	0.084216288
1277	0.074	3	0.084226563
1278	0.074	3	0.084236838
1279	0.074	3	0.084247111
1280	0.074	3	0.084257384
1281	0.074	3	0.084267655
1282	0.074	3	0.084277926
1283	0.074	3	0.084288195
1284	0.074	3	0.084298464
1285	0.074	3	0.084308731
1286	0.074	3	0.084318998
1287	0.074	3	0.084329263
1288	0.074	3	0.084339527
1289	0.074	3	0.084349791
1290	0.074	3	0.084360053
1291	0.074	3	0.084370315
1292	0.074	3	0.084380575
1293	0.074	3	0.084390835
1294	0.074	3	0.084401093
1295	0.074	3	0.08441135
1296	0.074	3	0.084421607
1297	0.074	3	0.084431862
1298	0.074	3	0.084442117
1299	0.074	3	0.08445237
1300	0.074	3	0.084462622
1301	0.074	3	0.084472874
1302	0.074	3	0.084483124
1303	0.074	3	0.084493374
1304	0.074	3	0.084503622
1305	0.074	3	0.08451387
1306	0.074	3	0.084524116
1307	0.074	3	0.084534361

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	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1308	0.074	3	0.084544606
1309	0.074	3	0.084554849
1310	0.074	3	0.084565092
1311	0.074	3	0.084575333
1312	0.074	3	0.084585574
1313	0.074	3	0.084595813
1314	0.074	3	0.084606052
1315	0.074	3	0.084616289
1316	0.074	3	0.084626526
1317	0.074	3	0.084636761
1318	0.074	3	0.084646996
1319	0.074	3	0.084657229
1320	0.074	3	0.084667462
1321	0.074	3	0.084677693
1322	0.074	3	0.084687924
1323	0.074	3	0.084698154
1324	0.074	3	0.084708382
1325	0.074	3	0.08471861
1326	0.074	3	0.084728837
1327	0.074	3	0.084739062
1328	0.074	3	0.084749287
1329	0.074	3	0.084759511
1330	0.074	3	0.084769733
1331	0.074	3	0.084779955
1332	0.074	3	0.084790176
1333	0.074	3	0.084800396
1334	0.074	3	0.084810614
1335	0.074	3	0.084820832
1336	0.074	3	0.084831049
1337	0.074	3	0.084841265
1338	0.074	3	0.08485148
1339	0.074	3	0.084861694
1340	0.074	3	0.084871907
1341	0.074	3	0.084882119
1342	0.074	3	0.08489233
1343	0.074	3	0.08490254
1344	0.074	3	0.084912749
1345	0.074	3	0.084922957
1346	0.074	3	0.084933164
1347	0.074	3	0.08494337
1348	0.074	3	0.084953576

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1349	0.074	3	0.08496378
1350	0.074	3	0.084973983
1351	0.074	3	0.084984185
1352	0.074	3	0.084994387
1353	0.074	3	0.085004587
1354	0.074	3	0.085014787
1355	0.074	3	0.085024985
1356	0.074	3	0.085035182
1357	0.074	3	0.085045379
1358	0.074	3	0.085055574
1359	0.074	3	0.085065769
1360	0.074	3	0.085075963
1361	0.074	3	0.085086155
1362	0.074	3	0.085096347
1363	0.074	3	0.085106538
1364	0.074	3	0.085116727
1365	0.074	3	0.085126916
1366	0.074	3	0.085137104
1367	0.074	3	0.085147291
1368	0.074	3	0.085157477
1369	0.074	3	0.085167662
1370	0.074	3	0.085177846
1371	0.074	3	0.085188029
1372	0.074	3	0.085198211
1373	0.074	3	0.085208392
1374	0.074	3	0.085218573
1375	0.074	3	0.085228752
1376	0.074	3	0.08523893
1377	0.074	3	0.085249107
1378	0.074	3	0.085259284
1379	0.074	3	0.085269459
1380	0.074	3	0.085279634
1381	0.074	3	0.085289807
1382	0.074	3	0.08529998
1383	0.074	3	0.085310152
1384	0.074	3	0.085320322
1385	0.074	3	0.085330492
1386	0.074	3	0.085340661
1387	0.074	3	0.085350829
1388	0.074	3	0.085360996
1389	0.074	3	0.085371162

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1390	0.074	3	0.085381327
1391	0.074	3	0.085391491
1392	0.074	3	0.085401654
1393	0.074	3	0.085411816
1394	0.074	3	0.085421977
1395	0.074	3	0.085432137
1396	0.074	3	0.085442297
1397	0.074	3	0.085452455
1398	0.074	3	0.085462613
1399	0.074	3	0.085472769
1400	0.074	3	0.085482925
1401	0.074	3	0.08549308
1402	0.074	3	0.085503233
1403	0.074	3	0.085513386
1404	0.074	3	0.085523538
1405	0.074	3	0.085533689
1406	0.074	3	0.085543839
1407	0.074	3	0.085553988
1408	0.074	3	0.085564136
1409	0.074	3	0.085574283
1410	0.074	3	0.085584429
1411	0.074	3	0.085594575
1412	0.074	3	0.085604719
1413	0.074	3	0.085614862
1414	0.074	3	0.085625005
1415	0.074	3	0.085635147
1416	0.074	3	0.085645287
1417	0.074	3	0.085655427
1418	0.074	3	0.085665566
1419	0.074	3	0.085675704
1420	0.074	3	0.08568584
1421	0.074	3	0.085695976
1422	0.074	3	0.085706112
1423	0.074	3	0.085716246
1424	0.074	3	0.085726379
1425	0.074	3	0.085736511
1426	0.074	3	0.085746643
1427	0.074	3	0.085756773
1428	0.074	3	0.085766903
1429	0.074	3	0.085777031
1430	0.074	3	0.085787159

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1431	0.074	3	0.085797286
1432	0.074	3	0.085807411
1433	0.074	3	0.085817536
1434	0.074	3	0.08582766
1435	0.074	3	0.085837783
1436	0.074	3	0.085847906
1437	0.074	3	0.085858027
1438	0.074	3	0.085868147
1439	0.074	3	0.085878266
1440	0.074	3	0.085888385
1441	0.074	3	0.085898502
1442	0.074	3	0.085908619
1443	0.074	3	0.085918735
1444	0.074	3	0.08592885
1445	0.074	3	0.085938964
1446	0.074	3	0.085949076
1447	0.074	3	0.085959189
1448	0.074	3	0.0859693
1449	0.074	3	0.08597941
1450	0.074	3	0.085989519
1451	0.074	3	0.085999628
1452	0.074	3	0.086009735
1453	0.074	3	0.086019842
1454	0.074	3	0.086029947
1455	0.074	3	0.086040052
1456	0.074	3	0.086050156
1457	0.074	3	0.086060259
1458	0.074	3	0.086070361
1459	0.074	3	0.086080462
1460	0.074	3	0.086090562
1461	0.074	3	0.086100662
1462	0.074	3	0.08611076
1463	0.074	3	0.086120858
1464	0.074	3	0.086130954
1465	0.074	3	0.08614105
1466	0.074	3	0.086151145
1467	0.074	3	0.086161239
1468	0.074	3	0.086171331
1469	0.074	3	0.086181424
1470	0.074	3	0.086191515
1471	0.074	3	0.086201605

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	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1472	0.074	3	0.086211694
1473	0.075	3	0.086221783
1474	0.075	3	0.08623187
1475	0.075	3	0.086241957
1476	0.075	3	0.086252043
1477	0.075	3	0.086262128
1478	0.075	3	0.086272212
1479	0.075	3	0.086282295
1480	0.075	3	0.086292377
1481	0.075	3	0.086302458
1482	0.075	3	0.086312539
1483	0.075	3	0.086322618
1484	0.075	3	0.086332697
1485	0.075	3	0.086342774
1486	0.075	3	0.086352851
1487	0.075	3	0.086362927
1488	0.075	3	0.086373002
1489	0.075	3	0.086383076
1490	0.075	3	0.086393149
1491	0.075	3	0.086403222
1492	0.075	3	0.086413293
1493	0.075	3	0.086423364
1494	0.075	3	0.086433433
1495	0.075	3	0.086443502
1496	0.075	3	0.08645357
1497	0.075	3	0.086463637
1498	0.075	3	0.086473703
1499	0.075	3	0.086483768
1500	0.075	3	0.086493832
1501	0.075	3	0.086503896
1502	0.075	3	0.086513958
1503	0.075	3	0.08652402
1504	0.075	3	0.086534081
1505	0.075	3	0.086544141
1506	0.075	3	0.0865542
1507	0.075	3	0.086564258
1508	0.075	3	0.086574315
1509	0.075	3	0.086584371
1510	0.075	3	0.086594427
1511	0.075	3	0.086604481
1512	0.075	3	0.086614535

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	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1513	0.075	3	0.086624588
1514	0.075	3	0.08663464
1515	0.075	3	0.086644691
1516	0.075	3	0.086654741
1517	0.075	3	0.08666479
1518	0.075	3	0.086674839
1519	0.075	3	0.086684886
1520	0.075	3	0.086694933
1521	0.075	3	0.086704979
1522	0.075	3	0.086715024
1523	0.075	3	0.086725068
1524	0.075	3	0.086735111
1525	0.075	3	0.086745153
1526	0.075	3	0.086755194
1527	0.075	3	0.086765235
1528	0.075	3	0.086775275
1529	0.075	3	0.086785313
1530	0.075	3	0.086795351
1531	0.075	3	0.086805388
1532	0.075	3	0.086815424
1533	0.075	3	0.08682546
1534	0.075	3	0.086835494
1535	0.075	3	0.086845528
1536	0.075	3	0.08685556
1537	0.075	3	0.086865592
1538	0.075	3	0.086875623
1539	0.075	3	0.086885653
1540	0.075	3	0.086895682
1541	0.075	3	0.08690571
1542	0.075	3	0.086915738
1543	0.075	3	0.086925764
1544	0.075	3	0.08693579
1545	0.075	3	0.086945815
1546	0.075	3	0.086955839
1547	0.075	3	0.086965862
1548	0.075	3	0.086975884
1549	0.075	3	0.086985906
1550	0.075	3	0.086995926
1551	0.075	3	0.087005946
1552	0.075	3	0.087015964
1553	0.075	3	0.087025982

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1554	0.075	3	0.087035999
1555	0.075	3	0.087046016
1556	0.075	3	0.087056031
1557	0.075	3	0.087066045
1558	0.075	3	0.087076059
1559	0.075	3	0.087086072
1560	0.075	3	0.087096083
1561	0.075	3	0.087106094
1562	0.075	3	0.087116105
1563	0.075	3	0.087126114
1564	0.075	3	0.087136122
1565	0.075	3	0.08714613
1566	0.075	3	0.087156137
1567	0.075	3	0.087166142
1568	0.075	3	0.087176147
1569	0.075	3	0.087186152
1570	0.075	3	0.087196155
1571	0.075	3	0.087206157
1572	0.075	3	0.087216159
1573	0.075	3	0.08722616
1574	0.075	3	0.087236159
1575	0.075	3	0.087246158
1576	0.075	3	0.087256157
1577	0.075	3	0.087266154
1578	0.075	3	0.08727615
1579	0.075	3	0.087286146
1580	0.075	3	0.087296141
1581	0.075	3	0.087306135
1582	0.075	3	0.087316128
1583	0.075	3	0.08732612
1584	0.075	3	0.087336111
1585	0.075	3	0.087346102
1586	0.075	3	0.087356091
1587	0.075	3	0.08736608
1588	0.075	3	0.087376068
1589	0.075	3	0.087386055
1590	0.075	3	0.087396041
1591	0.075	3	0.087406027
1592	0.075	3	0.087416011
1593	0.075	3	0.087425995
1594	0.075	3	0.087435978

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1595	0.075	3	0.08744596
1596	0.075	3	0.087455941
1597	0.075	3	0.087465921
1598	0.075	3	0.087475901
1599	0.075	3	0.087485879
1600	0.075	3	0.087495857
1601	0.075	3	0.087505834
1602	0.075	3	0.08751581
1603	0.075	3	0.087525786
1604	0.075	3	0.08753576
1605	0.075	3	0.087545734
1606	0.075	3	0.087555706
1607	0.075	3	0.087565678
1608	0.075	3	0.087575649
1609	0.075	3	0.087585619
1610	0.075	3	0.087595589
1611	0.075	3	0.087605557
1612	0.075	3	0.087615525
1613	0.075	3	0.087625492
1614	0.075	3	0.087635458
1615	0.075	3	0.087645423
1616	0.075	3	0.087655387
1617	0.075	3	0.087665351
1618	0.075	3	0.087675314
1619	0.075	3	0.087685275
1620	0.075	3	0.087695236
1621	0.075	3	0.087705197
1622	0.075	3	0.087715156
1623	0.075	3	0.087725114
1624	0.075	3	0.087735072
1625	0.075	3	0.087745029
1626	0.075	3	0.087754985
1627	0.075	3	0.08776494
1628	0.075	3	0.087774894
1629	0.075	3	0.087784848
1630	0.075	3	0.087794801
1631	0.075	3	0.087804752
1632	0.075	3	0.087814703
1633	0.075	3	0.087824654
1634	0.075	3	0.087834603
1635	0.075	3	0.087844551

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1636	0.075	3	0.087854499
1637	0.075	3	0.087864446
1638	0.075	3	0.087874392
1639	0.075	3	0.087884337
1640	0.075	3	0.087894282
1641	0.075	3	0.087904225
1642	0.075	3	0.087914168
1643	0.075	3	0.08792411
1644	0.075	3	0.087934051
1645	0.075	3	0.087943991
1646	0.075	3	0.08795393
1647	0.075	3	0.087963869
1648	0.075	3	0.087973807
1649	0.075	3	0.087983744
1650	0.075	3	0.08799368
1651	0.075	3	0.088003615
1652	0.075	3	0.08801355
1653	0.075	3	0.088023483
1654	0.075	3	0.088033416
1655	0.075	3	0.088043348
1656	0.075	3	0.088053279
1657	0.075	3	0.08806321
1658	0.075	3	0.088073139
1659	0.075	3	0.088083068
1660	0.075	3	0.088092996
1661	0.075	3	0.088102923
1662	0.075	3	0.088112849
1663	0.075	3	0.088122775
1664	0.075	3	0.088132699
1665	0.075	3	0.088142623
1666	0.075	3	0.088152546
1667	0.075	3	0.088162468
1668	0.075	3	0.088172389
1669	0.075	3	0.08818231
1670	0.075	3	0.08819223
1671	0.075	3	0.088202149
1672	0.075	3	0.088212067
1673	0.075	3	0.088221984
1674	0.075	3	0.0882319
1675	0.075	3	0.088241816
1676	0.075	3	0.088251731

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1677	0.075	3	0.088261645
1678	0.075	3	0.088271558
1679	0.075	3	0.088281471
1680	0.075	3	0.088291382
1681	0.075	3	0.088301293
1682	0.075	3	0.088311203
1683	0.075	3	0.088321112
1684	0.075	3	0.08833102
1685	0.075	3	0.088340928
1686	0.075	3	0.088350835
1687	0.075	3	0.08836074
1688	0.075	3	0.088370646
1689	0.075	3	0.08838055
1690	0.075	3	0.088390453
1691	0.075	3	0.088400356
1692	0.075	3	0.088410258
1693	0.075	3	0.088420159
1694	0.075	3	0.088430059
1695	0.075	3	0.088439959
1696	0.075	3	0.088449857
1697	0.075	3	0.088459755
1698	0.075	3	0.088469652
1699	0.075	3	0.088479548
1700	0.075	3	0.088489444
1701	0.075	3	0.088499338
1702	0.075	3	0.088509232
1703	0.075	3	0.088519125
1704	0.075	3	0.088529017
1705	0.075	3	0.088538909
1706	0.075	3	0.088548799
1707	0.075	3	0.088558689
1708	0.075	3	0.088568578
1709	0.075	3	0.088578466
1710	0.075	3	0.088588353
1711	0.075	3	0.08859824
1712	0.075	3	0.088608126
1713	0.075	3	0.088618011
1714	0.075	3	0.088627895
1715	0.075	3	0.088637778
1716	0.075	3	0.088647661
1717	0.075	3	0.088657543

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1718	0.075	3	0.088667424
1719	0.075	3	0.088677304
1720	0.075	3	0.088687183
1721	0.075	3	0.088697062
1722	0.075	3	0.08870694
1723	0.075	3	0.088716817
1724	0.075	3	0.088726693
1725	0.075	3	0.088736568
1726	0.075	3	0.088746443
1727	0.075	3	0.088756317
1728	0.075	3	0.08876619
1729	0.076	3	0.088776062
1730	0.076	3	0.088785933
1731	0.076	3	0.088795804
1732	0.076	3	0.088805674
1733	0.076	3	0.088815543
1734	0.076	3	0.088825411
1735	0.076	3	0.088835278
1736	0.076	3	0.088845145
1737	0.076	3	0.088855011
1738	0.076	3	0.088864876
1739	0.076	3	0.08887474
1740	0.076	3	0.088884604
1741	0.076	3	0.088894466
1742	0.076	3	0.088904328
1743	0.076	3	0.088914189
1744	0.076	3	0.08892405
1745	0.076	3	0.088933909
1746	0.076	3	0.088943768
1747	0.076	3	0.088953626
1748	0.076	3	0.088963483
1749	0.076	3	0.088973339
1750	0.076	3	0.088983195
1751	0.076	3	0.08899305
1752	0.076	3	0.089002904
1753	0.076	3	0.089012757
1754	0.076	3	0.08902261
1755	0.076	3	0.089032461
1756	0.076	3	0.089042312
1757	0.076	3	0.089052162
1758	0.076	3	0.089062011

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1759	0.076	3	0.08907186
1760	0.076	3	0.089081708
1761	0.076	3	0.089091555
1762	0.076	3	0.089101401
1763	0.076	3	0.089111246
1764	0.076	3	0.089121091
1765	0.076	3	0.089130935
1766	0.076	3	0.089140778
1767	0.076	3	0.08915062
1768	0.076	3	0.089160461
1769	0.076	3	0.089170302
1770	0.076	3	0.089180142
1771	0.076	3	0.089189981
1772	0.076	3	0.089199819
1773	0.076	3	0.089209657
1774	0.076	3	0.089219494
1775	0.076	3	0.08922933
1776	0.076	3	0.089239165
1777	0.076	3	0.089248999
1778	0.076	3	0.089258833
1779	0.076	3	0.089268666
1780	0.076	3	0.089278498
1781	0.076	3	0.089288329
1782	0.076	3	0.08929816
1783	0.076	3	0.08930799
1784	0.076	3	0.089317819
1785	0.076	3	0.089327647
1786	0.076	3	0.089337474
1787	0.076	3	0.089347301
1788	0.076	3	0.089357127
1789	0.076	3	0.089366952
1790	0.076	3	0.089376776
1791	0.076	3	0.0893866
1792	0.076	3	0.089396423
1793	0.076	3	0.089406245
1794	0.076	3	0.089416066
1795	0.076	3	0.089425886
1796	0.076	3	0.089435706
1797	0.076	3	0.089445525
1798	0.076	3	0.089455343
1799	0.076	3	0.089465161

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1800	0.076	3	0.089474977
1801	0.076	3	0.089484793
1802	0.076	3	0.089494608
1803	0.076	3	0.089504422
1804	0.076	3	0.089514236
1805	0.076	3	0.089524049
1806	0.076	3	0.089533861
1807	0.076	3	0.089543672
1808	0.076	3	0.089553482
1809	0.076	3	0.089563292
1810	0.076	4	0.092117152
1811	0.076	4	0.096340435
1812	0.076	4	0.100526729
1813	0.076	4	0.104678235
1814	0.076	4	0.108788323
1815	0.076	4	0.112854276
1816	0.076	4	0.116876149
1817	0.076	5	0.119999817
1818	0.076	5	0.120409691
1819	0.076	5	0.12081817
1820	0.076	5	0.121225156
1821	0.076	5	0.121630629
1822	0.076	5	0.122035094
1823	0.076	5	0.122438818
1824	0.076	5	0.122841938
1825	0.076	5	0.123244529
1826	0.076	5	0.12364663
1827	0.076	5	0.124048262
1828	0.076	5	0.124449438
1829	0.076	5	0.124850165
1830	0.076	5	0.125250446
1831	0.076	5	0.125650285
1832	0.076	5	0.126049684
1833	0.076	5	0.126448645
1834	0.076	5	0.12684717
1835	0.076	5	0.12724526
1836	0.076	5	0.127642917
1837	0.076	5	0.128040142
1838	0.076	5	0.128436937
1839	0.076	5	0.128833303
1840	0.076	5	0.129229241

	AR	AS	AT
20			Clad CP Iterpolation
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
1841	0.076	5	0.129624753
1842	0.076	5	0.13001984
1843	0.076	5	0.130414504
1844	0.076	5	0.130808746
1845	0.076	5	0.131202567
1846	0.076	5	0.131595969
1847	0.076	5	0.131988952
1848	0.076	5	0.132381519
1849	0.076	5	0.132773671
1850	0.076	5	0.133165408
1851	0.076	5	0.133556733
1852	0.076	5	0.133947646
1853	0.076	5	0.13433815
1854	0.076	5	0.134728244
1855	0.076	5	0.135117931
1856	0.076	5	0.135507212
1857	0.076	5	0.135896087
1858	0.076	5	0.136284559
1859	0.076	5	0.136672628
1860	0.076	5	0.137060297
1861	0.076	5	0.137447565
1862	0.076	5	0.137834434
1863	0.076	5	0.138220906
1864	0.076	5	0.138606982
1865	0.076	5	0.138992663
1866	0.076	5	0.139377949
1867	0.076	5	0.139762844
1868	0.076	5	0.140147346
1869	0.076	5	0.140531459
1870	0.076	5	0.140915182
1871	0.076	6	0.141026874
1872	0.076	6	0.141135724
1873	0.076	6	0.141244519
1874	0.076	6	0.141353257
1875	0.076	6	0.141461943
1876	0.076	6	0.141570584
1877	0.076	6	0.141679185
1878	0.076	6	0.141787748
1879	0.076	6	0.141896276
1880	0.076	6	0.142004769
1881	0.076	6	0.142113228

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1882	0.076	6	0.142221653
1883	0.076	6	0.142330044
1884	0.076	6	0.142438402
1885	0.076	6	0.142546726
1886	0.076	6	0.142655017
1887	0.076	6	0.142763274
1888	0.076	6	0.142871498
1889	0.076	6	0.142979688
1890	0.076	6	0.143087845
1891	0.076	6	0.143195969
1892	0.076	6	0.14330406
1893	0.076	6	0.143412118
1894	0.076	6	0.143520142
1895	0.076	6	0.143628133
1896	0.076	6	0.143736092
1897	0.076	6	0.143844017
1898	0.076	6	0.143951909
1899	0.076	6	0.144059768
1900	0.076	6	0.144167594
1901	0.076	6	0.144275387
1902	0.076	6	0.144383147
1903	0.076	6	0.144490875
1904	0.076	6	0.144598569
1905	0.076	6	0.144706231
1906	0.076	6	0.14481386
1907	0.076	6	0.144921456
1908	0.076	6	0.14502902
1909	0.076	6	0.14513655
1910	0.076	6	0.145244048
1911	0.076	6	0.145351514
1912	0.076	6	0.145458947
1913	0.076	6	0.145566347
1914	0.076	6	0.145673715
1915	0.076	6	0.14578105
1916	0.076	6	0.145888353
1917	0.076	6	0.145995623
1918	0.076	6	0.146102861
1919	0.076	6	0.146210067
1920	0.076	6	0.14631724
1921	0.076	6	0.146424381
1922	0.076	6	0.146531489

Attachment 1

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
1923	0.076	6	0.146638565
1924	0.076	6	0.146745609
1925	0.076	6	0.146852621
1926	0.076	7	0.147178824
1927	0.076	7	0.147623539
1928	0.076	7	0.148067843
1929	0.076	7	0.148511749
1930	0.076	7	0.148955259
1931	0.076	7	0.149398328
1932	0.076	7	0.149840929
1933	0.076	7	0.150283048
1934	0.076	7	0.15072468
1935	0.076	7	0.15116582
1936	0.076	7	0.151606468
1937	0.076	7	0.152046624
1938	0.076	7	0.152486289
1939	0.076	7	0.152925463
1940	0.076	7	0.153364149
1941	0.076	7	0.153802347
1942	0.076	7	0.15424006
1943	0.076	7	0.154677289
1944	0.076	7	0.155114035
1945	0.076	7	0.1555503
1946	0.076	7	0.155986086
1947	0.076	7	0.156421393
1948	0.076	7	0.156856225
1949	0.076	7	0.157290582
1950	0.076	7	0.157724466
1951	0.076	7	0.158157878
1952	0.076	7	0.15859082
1953	0.076	7	0.159023294
1954	0.076	7	0.159455301
1955	0.076	7	0.159886842
1956	0.076	7	0.160317919
1957	0.076	7	0.160748534
1958	0.076	7	0.161178688
1959	0.076	7	0.161608382
1960	0.076	7	0.162037618
1961	0.076	7	0.162466398
1962	0.076	7	0.162894723
1963	0.076	7	0.163322594

	AR	AS	AT
20			Clad CP Iterpolation
21	Cp		Cp
22	BTU/lb-F	Match	BTU/lb-F
1964	0.076	7	0.163750013
1965	0.076	7	0.164176981
1966	0.076	7	0.1646035
1967	0.076	7	0.165029571
1968	0.076	7	0.165455196
1969	0.076	7	0.165880375
1970	0.076	7	0.166305111
1971	0.076	7	0.166729404
1972	0.076	7	0.167153257
1973	0.076	7	0.16757667
1974	0.076	7	0.167999645
1975	0.076	7	0.168422183
1976	0.076	7	0.168844286
1977	0.076	7	0.169265955
1978	0.076	7	0.169687191
1979	0.076	7	0.170107996
1980	0.076	7	0.17052837
1981	0.076	7	0.170948316
1982	0.076	7	0.171367835
1983	0.076	8	0.171737003
1984	0.076	8	0.171787214
1985	0.076	8	0.171837409
1986	0.076	8	0.171887584
1987	0.076	8	0.17193774
1988	0.076	8	0.171987876
1989	0.076	8	0.172037999
1990	0.076	8	0.172088109
1991	0.076	8	0.17213821
1992	0.076	8	0.172188303
1993	0.076	8	0.172238387
1994	0.076	8	0.172288463
1995	0.076	8	0.172338532
1996	0.076	8	0.172388593
1997	0.076	8	0.172438647
1998	0.076	8	0.172488693
1999	0.076	8	0.172538733
2000	0.076	8	0.172588765
2001	0.076	8	0.172638789
2002	0.076	8	0.172688807
2003	0.076	8	0.172738817
2004	0.076	8	0.17278882

	AR	AS	AT
20		Clad CP Iterpolation	
21	Cp	Cp	
22	BTU/lb-F	Match	BTU/lb-F
2005	0.076	8	0.172838816
2006	0.076	8	0.172888805
2007	0.076	8	0.172938786
2008	0.076	8	0.17298876
2009	0.076	8	0.173038727
2010	0.076	8	0.173088687
2011	0.076	8	0.17313864
2012	0.076	8	0.173188585
2013	0.076	8	0.173238523
2014	0.076	8	0.173288454
2015	0.076	8	0.173338378
2016	0.076	8	0.173388295
2017	0.076	8	0.173438204
2018	0.076	8	0.173488107
2019	0.076	8	0.173538002
2020	0.076	8	0.17358789
2021	0.076	8	0.173637771
2022	0.076	8	0.173687644
2023	0.076	8	0.173737511

	AU	AV
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19	x=MATCH(AI24,\$I\$3:\$I\$16)	x=INDEX(\$L\$3:\$L\$16,AU24)+(AI24-INDEX(\$I\$3:\$I\$16,AU24))*(INDEX(\$L\$3:\$L\$16,AU24+1)-INDEX(\$L\$3:\$L\$16,AU24))/(INDEX(\$I\$3:\$I\$16,AU24+1)-INDEX(\$I\$3:\$I\$16,AU24))
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
23	1	0.068221116
24	1	0.068221116
25	1	0.06822171
26	1	0.068222877
27	1	0.068224598
28	1	0.068226853
29	1	0.068229625
30	1	0.068232895
31	1	0.068236648
32	1	0.068240866
33	1	0.068245536
34	1	0.068250642
35	1	0.068256169
36	1	0.068262106

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
37	1	0.068268438
38	1	0.068275154
39	1	0.068282241
40	1	0.068289688
41	1	0.068297483
42	1	0.068305618
43	1	0.06831408
44	1	0.068322861
45	1	0.068331952
46	1	0.068341343
47	1	0.068351025
48	1	0.06836099
49	1	0.068371231
50	1	0.068381739
51	1	0.068392507
52	1	0.068403529
53	1	0.068414796
54	1	0.068426303
55	1	0.068438043
56	1	0.06845001
57	1	0.068462199
58	1	0.068474602
59	1	0.068487215
60	1	0.068500033
61	1	0.06851305
62	1	0.068526262
63	1	0.068539663
64	1	0.068553249
65	1	0.068567016
66	1	0.068580959
67	1	0.068595074
68	1	0.068609358
69	1	0.068623805
70	1	0.068638413
71	1	0.068653178
72	1	0.068668096
73	1	0.068683165
74	1	0.06869838
75	1	0.068713738
76	1	0.068729237
77	1	0.068744873

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
78	1	0.068760643
79	1	0.068776546
80	1	0.068792577
81	1	0.068808735
82	1	0.068825017
83	1	0.068841419
84	1	0.068857941
85	1	0.06887458
86	1	0.068891333
87	1	0.068908198
88	1	0.068925173
89	1	0.068942256
90	1	0.068959445
91	1	0.068976738
92	1	0.068994133
93	1	0.069011629
94	1	0.069029223
95	1	0.069046913
96	1	0.069064699
97	1	0.069082578
98	1	0.069100549
99	1	0.06911861
100	1	0.06913676
101	1	0.069154997
102	1	0.06917332
103	1	0.069191727
104	1	0.069210217
105	1	0.069228789
106	1	0.069247441
107	1	0.069266172
108	1	0.069284981
109	1	0.069303867
110	1	0.069322828
111	1	0.069341863
112	1	0.069360972
113	1	0.069380152
114	1	0.069399404
115	1	0.069418726
116	1	0.069438116
117	1	0.069457575
118	1	0.0694771

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
119	1	0.069496692
120	1	0.069516348
121	1	0.069536069
122	1	0.069555853
123	1	0.069575699
124	1	0.069595607
125	1	0.069615576
126	1	0.069635605
127	1	0.069655692
128	1	0.069675838
129	1	0.069696042
130	1	0.069716302
131	1	0.069736618
132	1	0.06975699
133	1	0.069777417
134	1	0.069797897
135	1	0.069818431
136	1	0.069839017
137	1	0.069859655
138	1	0.069880345
139	1	0.069901085
140	1	0.069921875
141	1	0.069942715
142	1	0.069963604
143	1	0.069984541
144	1	0.070005526
145	1	0.070026558
146	1	0.070047637
147	1	0.070068762
148	1	0.070089932
149	1	0.070111148
150	1	0.070132408
151	1	0.070153712
152	1	0.07017506
153	1	0.070196451
154	1	0.070217885
155	1	0.07023936
156	1	0.070260878
157	1	0.070282437
158	1	0.070304037
159	1	0.070325677

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
160	1	0.070347357
161	1	0.070369077
162	1	0.070390836
163	1	0.070412634
164	1	0.07043447
165	1	0.070456344
166	1	0.070478256
167	1	0.070500205
168	1	0.070522191
169	1	0.070544213
170	1	0.070566272
171	1	0.070588366
172	1	0.070610496
173	1	0.070632662
174	1	0.070654862
175	1	0.070677096
176	1	0.070699365
177	1	0.070721668
178	1	0.070744005
179	1	0.070766374
180	1	0.070788777
181	1	0.070811213
182	1	0.070833681
183	1	0.070856182
184	1	0.070878714
185	1	0.070901278
186	1	0.070923873
187	1	0.0709465
188	1	0.070969157
189	1	0.070991845
190	1	0.071014563
191	1	0.071037311
192	1	0.071060089
193	1	0.071082897
194	1	0.071105734
195	1	0.0711286
196	1	0.071151494
197	1	0.071174418
198	1	0.071197369
199	1	0.071220349
200	1	0.071243356

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
201	1	0.071266391
202	1	0.071289454
203	1	0.071312544
204	1	0.07133566
205	1	0.071358803
206	1	0.071381973
207	1	0.071405169
208	1	0.071428391
209	1	0.071451639
210	1	0.071474913
211	1	0.071498211
212	1	0.071521535
213	1	0.071544884
214	1	0.071568258
215	1	0.071591656
216	1	0.071615079
217	1	0.071638526
218	1	0.071661996
219	1	0.07168549
220	1	0.071709008
221	1	0.071732549
222	1	0.071756113
223	1	0.0717797
224	1	0.07180331
225	1	0.071826942
226	1	0.071850597
227	1	0.071874273
228	1	0.071897972
229	1	0.071921692
230	1	0.071945433
231	1	0.071969196
232	1	0.07199298
233	1	0.072016785
234	1	0.072040611
235	1	0.072064457
236	1	0.072088323
237	1	0.07211221
238	2	0.072134139
239	2	0.072147907
240	2	0.072161687
241	2	0.072175481

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
242	2	0.072189287
243	2	0.072203105
244	2	0.072216936
245	2	0.072230779
246	2	0.072244633
247	2	0.0722585
248	2	0.072272377
249	2	0.072286266
250	2	0.072300166
251	2	0.072314077
252	2	0.072327999
253	2	0.072341931
254	2	0.072355873
255	2	0.072369826
256	2	0.072383789
257	2	0.072397762
258	2	0.072411744
259	2	0.072425737
260	2	0.072439738
261	2	0.072453749
262	2	0.072467769
263	2	0.072481799
264	2	0.072495837
265	2	0.072509884
266	2	0.072523939
267	2	0.072538004
268	2	0.072552076
269	2	0.072566157
270	2	0.072580246
271	2	0.072594342
272	2	0.072608447
273	2	0.072622559
274	2	0.072636679
275	2	0.072650807
276	2	0.072664942
277	2	0.072679084
278	2	0.072693233
279	2	0.072707389
280	2	0.072721552
281	2	0.072735722
282	2	0.072749898

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
283	2	0.072764081
284	2	0.07277827
285	2	0.072792465
286	2	0.072806666
287	2	0.072820873
288	2	0.072835087
289	2	0.072849305
290	2	0.07286353
291	2	0.07287776
292	2	0.072891995
293	2	0.072906236
294	2	0.072920481
295	2	0.072934732
296	2	0.072948987
297	2	0.072963247
298	2	0.072977512
299	2	0.072991781
300	2	0.073006055
301	2	0.073020333
302	2	0.073034615
303	2	0.0730489
304	2	0.07306319
305	2	0.073077484
306	2	0.073091781
307	2	0.073106081
308	2	0.073120385
309	2	0.073134693
310	2	0.073149003
311	2	0.073163316
312	2	0.073177633
313	2	0.073191952
314	2	0.073206273
315	2	0.073220597
316	2	0.073234924
317	2	0.073249253
318	2	0.073263584
319	2	0.073277917
320	2	0.073292252
321	2	0.073306588
322	2	0.073320927
323	2	0.073335267

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
324	2	0.073349608
325	2	0.073363951
326	2	0.073378295
327	2	0.073392639
328	2	0.073406985
329	2	0.073421332
330	2	0.07343568
331	2	0.073450028
332	2	0.073464376
333	2	0.073478725
334	2	0.073493074
335	2	0.073507424
336	2	0.073521773
337	2	0.073536122
338	2	0.073550472
339	2	0.07356482
340	2	0.073579169
341	2	0.073593517
342	2	0.073607864
343	2	0.07362221
344	2	0.073636556
345	2	0.073650901
346	2	0.073665244
347	2	0.073679587
348	2	0.073693928
349	2	0.073708267
350	2	0.073722606
351	2	0.073736942
352	2	0.073751277
353	2	0.07376561
354	2	0.073779941
355	2	0.073794271
356	2	0.073808598
357	2	0.073822923
358	2	0.073837245
359	2	0.073851565
360	2	0.073865883
361	2	0.073880198
362	2	0.07389451
363	2	0.07390882
364	2	0.073923126

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
365	2	0.07393743
366	2	0.07395173
367	2	0.073966028
368	2	0.073980322
369	2	0.073994613
370	2	0.0740089
371	2	0.074023184
372	2	0.074037464
373	2	0.074051741
374	2	0.074066014
375	2	0.074080283
376	2	0.074094548
377	2	0.074108809
378	2	0.074123065
379	2	0.074137318
380	2	0.074151567
381	2	0.074165811
382	2	0.07418005
383	2	0.074194286
384	2	0.074208516
385	2	0.074222742
386	2	0.074236964
387	2	0.07425118
388	2	0.074265392
389	2	0.074279599
390	2	0.074293801
391	2	0.074307997
392	2	0.074322189
393	2	0.074336375
394	2	0.074350557
395	2	0.074364733
396	2	0.074378903
397	2	0.074393068
398	2	0.074407228
399	2	0.074421382
400	2	0.074435531
401	2	0.074449674
402	2	0.074463811
403	2	0.074477942
404	2	0.074492068
405	2	0.074506188

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
406	2	0.074520302
407	2	0.07453441
408	2	0.074548511
409	2	0.074562607
410	2	0.074576697
411	2	0.074590781
412	2	0.074604858
413	2	0.074618929
414	2	0.074632994
415	2	0.074647052
416	2	0.074661105
417	2	0.07467515
418	2	0.07468919
419	2	0.074703223
420	2	0.074717249
421	2	0.074731269
422	2	0.074745282
423	2	0.074759289
424	2	0.074773289
425	2	0.074787282
426	2	0.074801269
427	2	0.074815249
428	2	0.074829222
429	2	0.074843189
430	2	0.074857148
431	2	0.074871101
432	2	0.074885047
433	2	0.074898986
434	2	0.074912918
435	2	0.074926843
436	2	0.074940762
437	2	0.074954673
438	2	0.074968577
439	2	0.074982475
440	2	0.074996365
441	2	0.075010248
442	2	0.075024125
443	2	0.075037994
444	2	0.075051856
445	2	0.075065711
446	2	0.075079559

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
447	2	0.0750934
448	2	0.075107233
449	2	0.07512106
450	2	0.07513488
451	2	0.075148692
452	2	0.075162497
453	2	0.075176295
454	2	0.075190086
455	2	0.07520387
456	2	0.075217646
457	2	0.075231416
458	2	0.075245178
459	2	0.075258933
460	2	0.075272681
461	2	0.075286422
462	2	0.075300155
463	2	0.075313881
464	2	0.075327601
465	2	0.075341313
466	2	0.075355017
467	2	0.075368715
468	2	0.075382406
469	2	0.075396089
470	2	0.075409765
471	2	0.075423434
472	2	0.075437096
473	2	0.075450751
474	2	0.075464399
475	2	0.075478039
476	2	0.075491672
477	2	0.075505299
478	2	0.075518918
479	2	0.07553253
480	2	0.075546135
481	2	0.075559733
482	2	0.075573324
483	2	0.075586908
484	2	0.075600485
485	2	0.075614055
486	2	0.075627618
487	2	0.075641174

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
488	2	0.075654723
489	2	0.075668265
490	2	0.0756818
491	2	0.075695328
492	2	0.075708849
493	2	0.075722363
494	2	0.075735871
495	2	0.075749371
496	2	0.075762865
497	2	0.075776352
498	2	0.075789832
499	2	0.075803305
500	2	0.075816772
501	2	0.075830232
502	2	0.075843685
503	2	0.075857131
504	2	0.075870571
505	2	0.075884003
506	2	0.07589743
507	2	0.075910849
508	2	0.075924262
509	2	0.075937669
510	2	0.075951068
511	2	0.075964462
512	2	0.075977848
513	2	0.075991228
514	2	0.076004602
515	2	0.076017969
516	2	0.07603133
517	2	0.076044684
518	2	0.076058032
519	2	0.076071373
520	2	0.076084708
521	2	0.076098037
522	2	0.07611136
523	2	0.076124676
524	2	0.076137986
525	2	0.076151289
526	2	0.076164586
527	2	0.076177877
528	2	0.076191162

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
529	2	0.076204441
530	2	0.076217714
531	2	0.07623098
532	2	0.076244241
533	2	0.076257495
534	2	0.076270743
535	2	0.076283985
536	2	0.076297222
537	2	0.076310452
538	2	0.076323676
539	2	0.076336895
540	2	0.076350107
541	2	0.076363314
542	2	0.076376514
543	2	0.076389709
544	2	0.076402898
545	2	0.076416081
546	2	0.076429259
547	2	0.076442431
548	2	0.076455597
549	2	0.076468757
550	2	0.076481912
551	2	0.076495061
552	2	0.076508204
553	2	0.076521342
554	2	0.076534474
555	2	0.0765476
556	2	0.076560722
557	2	0.076573837
558	2	0.076586947
559	2	0.076600052
560	2	0.076613151
561	2	0.076626245
562	2	0.076639333
563	2	0.076652416
564	2	0.076665494
565	2	0.076678566
566	2	0.076691633
567	2	0.076704695
568	2	0.076717751
569	2	0.076730803

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
570	2	0.076743849
571	2	0.076756889
572	2	0.076769925
573	2	0.076782956
574	2	0.076795981
575	2	0.076809001
576	2	0.076822017
577	2	0.076835027
578	2	0.076848032
579	2	0.076861032
580	2	0.076874027
581	2	0.076887017
582	2	0.076900002
583	2	0.076912983
584	2	0.076925958
585	2	0.076938929
586	2	0.076951894
587	2	0.076964855
588	2	0.076977811
589	2	0.076990762
590	2	0.077003709
591	2	0.07701665
592	2	0.077029587
593	2	0.077042519
594	2	0.077055447
595	2	0.07706837
596	2	0.077081288
597	2	0.077094201
598	2	0.07710711
599	2	0.077120015
600	2	0.077132914
601	2	0.077145809
602	2	0.0771587
603	2	0.077171586
604	2	0.077184468
605	2	0.077197345
606	2	0.077210218
607	2	0.077223086
608	2	0.07723595
609	2	0.077248809
610	2	0.077261664

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
611	2	0.077274515
612	2	0.077287361
613	2	0.077300203
614	2	0.077313041
615	2	0.077325874
616	2	0.077338703
617	2	0.077351528
618	2	0.077364348
619	2	0.077377165
620	2	0.077389977
621	2	0.077402785
622	2	0.077415589
623	2	0.077428388
624	2	0.077441184
625	2	0.077453975
626	2	0.077466762
627	2	0.077479545
628	2	0.077492324
629	2	0.077505099
630	2	0.07751787
631	2	0.077530637
632	2	0.0775434
633	2	0.077556159
634	2	0.077568914
635	2	0.077581665
636	2	0.077594412
637	2	0.077607156
638	2	0.077619895
639	2	0.07763263
640	2	0.077645362
641	2	0.077658089
642	2	0.077670813
643	2	0.077683533
644	2	0.077696249
645	2	0.077708961
646	2	0.07772167
647	2	0.077734374
648	2	0.077747075
649	2	0.077759772
650	2	0.077772466
651	2	0.077785155

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
652	2	0.077797841
653	2	0.077810524
654	2	0.077823202
655	2	0.077835877
656	2	0.077848549
657	2	0.077861216
658	2	0.07787388
659	2	0.077886541
660	2	0.077899198
661	2	0.077911851
662	2	0.077924501
663	2	0.077937147
664	2	0.077949789
665	2	0.077962428
666	2	0.077975064
667	2	0.077987696
668	2	0.078000324
669	2	0.078012949
670	2	0.078025571
671	2	0.078038189
672	2	0.078050803
673	2	0.078063415
674	2	0.078076022
675	2	0.078088627
676	2	0.078101228
677	2	0.078113825
678	2	0.078126419
679	2	0.07813901
680	2	0.078151598
681	2	0.078164182
682	2	0.078176763
683	2	0.07818934
684	2	0.078201914
685	2	0.078214485
686	2	0.078227053
687	2	0.078239617
688	2	0.078252178
689	2	0.078264736
690	2	0.07827729
691	2	0.078289842
692	2	0.07830239

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
693	2	0.078314935
694	2	0.078327476
695	2	0.078340015
696	2	0.07835255
697	2	0.078365082
698	2	0.078377611
699	2	0.078390137
700	2	0.07840266
701	2	0.078415179
702	2	0.078427696
703	2	0.078440209
704	2	0.078452719
705	2	0.078465226
706	2	0.078477731
707	2	0.078490232
708	2	0.078502729
709	2	0.078515224
710	2	0.078527716
711	2	0.078540205
712	2	0.078552691
713	2	0.078565173
714	2	0.078577653
715	2	0.07859013
716	2	0.078602604
717	2	0.078615075
718	2	0.078627542
719	2	0.078640007
720	2	0.078652469
721	2	0.078664928
722	2	0.078677384
723	2	0.078689837
724	2	0.078702287
725	2	0.078714735
726	2	0.078727179
727	2	0.078739621
728	2	0.078752059
729	2	0.078764495
730	2	0.078776928
731	2	0.078789358
732	2	0.078801785
733	2	0.078814209

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
734	2	0.078826631
735	2	0.078839049
736	2	0.078851465
737	2	0.078863878
738	2	0.078876288
739	2	0.078888696
740	2	0.078901101
741	2	0.078913503
742	2	0.078925902
743	2	0.078938298
744	2	0.078950692
745	2	0.078963083
746	2	0.078975472
747	2	0.078987857
748	2	0.07900024
749	2	0.079012621
750	2	0.079024998
751	2	0.079037373
752	2	0.079049745
753	3	0.079061328
754	3	0.079071336
755	3	0.079081341
756	3	0.079091345
757	3	0.079101347
758	3	0.079111346
759	3	0.079121344
760	3	0.07913134
761	3	0.079141333
762	3	0.079151325
763	3	0.079161315
764	3	0.079171302
765	3	0.079181288
766	3	0.079191271
767	3	0.079201253
768	3	0.079211232
769	3	0.079221209
770	3	0.079231185
771	3	0.079241158
772	3	0.07925113
773	3	0.079261099
774	3	0.079271067

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
775	3	0.079281032
776	3	0.079290996
777	3	0.079300957
778	3	0.079310917
779	3	0.079320874
780	3	0.07933083
781	3	0.079340783
782	3	0.079350735
783	3	0.079360685
784	3	0.079370633
785	3	0.079380579
786	3	0.079390523
787	3	0.079400465
788	3	0.079410405
789	3	0.079420343
790	3	0.079430279
791	3	0.079440213
792	3	0.079450146
793	3	0.079460076
794	3	0.079470005
795	3	0.079479932
796	3	0.079489856
797	3	0.079499779
798	3	0.0795097
799	3	0.07951962
800	3	0.079529537
801	3	0.079539452
802	3	0.079549366
803	3	0.079559278
804	3	0.079569188
805	3	0.079579096
806	3	0.079589002
807	3	0.079598906
808	3	0.079608809
809	3	0.079618709
810	3	0.079628608
811	3	0.079638505
812	3	0.0796484
813	3	0.079658294
814	3	0.079668185
815	3	0.079678075

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
816	3	0.079687963
817	3	0.079697849
818	3	0.079707733
819	3	0.079717616
820	3	0.079727497
821	3	0.079737376
822	3	0.079747253
823	3	0.079757128
824	3	0.079767002
825	3	0.079776874
826	3	0.079786744
827	3	0.079796612
828	3	0.079806479
829	3	0.079816344
830	3	0.079826207
831	3	0.079836068
832	3	0.079845928
833	3	0.079855786
834	3	0.079865642
835	3	0.079875496
836	3	0.079885349
837	3	0.0798952
838	3	0.079905049
839	3	0.079914896
840	3	0.079924742
841	3	0.079934586
842	3	0.079944429
843	3	0.079954269
844	3	0.079964108
845	3	0.079973946
846	3	0.079983781
847	3	0.079993615
848	3	0.080003447
849	3	0.080013278
850	3	0.080023107
851	3	0.080032934
852	3	0.080042759
853	3	0.080052583
854	3	0.080062405
855	3	0.080072226
856	3	0.080082045

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
857	3	0.080091862
858	3	0.080101678
859	3	0.080111492
860	3	0.080121304
861	3	0.080131115
862	3	0.080140924
863	3	0.080150731
864	3	0.080160537
865	3	0.080170341
866	3	0.080180143
867	3	0.080189944
868	3	0.080199744
869	3	0.080209541
870	3	0.080219337
871	3	0.080229132
872	3	0.080238925
873	3	0.080248716
874	3	0.080258506
875	3	0.080268294
876	3	0.08027808
877	3	0.080287865
878	3	0.080297648
879	3	0.08030743
880	3	0.08031721
881	3	0.080326989
882	3	0.080336766
883	3	0.080346541
884	3	0.080356315
885	3	0.080366087
886	3	0.080375858
887	3	0.080385627
888	3	0.080395395
889	3	0.080405161
890	3	0.080414926
891	3	0.080424689
892	3	0.080434445
893	3	0.08044421
894	3	0.080453968
895	3	0.080463725
896	3	0.080473481
897	3	0.080483234

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
898	3	0.080492987
899	3	0.080502738
900	3	0.080512487
901	3	0.080522235
902	3	0.080531981
903	3	0.080541725
904	3	0.080551469
905	3	0.08056121
906	3	0.080570951
907	3	0.080580689
908	3	0.080590427
909	3	0.080600162
910	3	0.080609896
911	3	0.080619629
912	3	0.08062936
913	3	0.08063909
914	3	0.080648819
915	3	0.080658545
916	3	0.080668271
917	3	0.080677995
918	3	0.080687717
919	3	0.080697438
920	3	0.080707158
921	3	0.080716876
922	3	0.080726592
923	3	0.080736307
924	3	0.080746021
925	3	0.080755733
926	3	0.080765444
927	3	0.080775153
928	3	0.080784861
929	3	0.080794568
930	3	0.080804273
931	3	0.080813976
932	3	0.080823678
933	3	0.080833379
934	3	0.080843078
935	3	0.080852776
936	3	0.080862473
937	3	0.080872168
938	3	0.080881861

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
939	3	0.080891554
940	3	0.080901244
941	3	0.080910934
942	3	0.080920622
943	3	0.080930308
944	3	0.080939994
945	3	0.080949677
946	3	0.08095936
947	3	0.080969041
948	3	0.08097872
949	3	0.080988399
950	3	0.080998075
951	3	0.081007751
952	3	0.081017425
953	3	0.081027098
954	3	0.081036769
955	3	0.081046439
956	3	0.081056107
957	3	0.081065774
958	3	0.08107544
959	3	0.081085105
960	3	0.081094768
961	3	0.08110443
962	3	0.08111409
963	3	0.081123749
964	3	0.081133407
965	3	0.081143063
966	3	0.081152718
967	3	0.081162371
968	3	0.081172024
969	3	0.081181675
970	3	0.081191324
971	3	0.081200972
972	3	0.081210619
973	3	0.081220265
974	3	0.081229909
975	3	0.081239552
976	3	0.081249194
977	3	0.081258834
978	3	0.081268473
979	3	0.08127811

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
980	3	0.081287747
981	3	0.081297382
982	3	0.081307015
983	3	0.081316648
984	3	0.081326279
985	3	0.081335908
986	3	0.081345537
987	3	0.081355164
988	3	0.08136479
989	3	0.081374414
990	3	0.081384037
991	3	0.081393659
992	3	0.08140328
993	3	0.081412899
994	3	0.081422517
995	3	0.081432134
996	3	0.081441749
997	3	0.081451363
998	3	0.081460976
999	3	0.081470588
1000	3	0.081480198
1001	3	0.081489807
1002	3	0.081499415
1003	3	0.081509022
1004	3	0.081518627
1005	3	0.081528231
1006	3	0.081537833
1007	3	0.081547435
1008	3	0.081557035
1009	3	0.081566634
1010	3	0.081576232
1011	3	0.081585828
1012	3	0.081595423
1013	3	0.081605017
1014	3	0.08161461
1015	3	0.081624201
1016	3	0.081633791
1017	3	0.08164338
1018	3	0.081652968
1019	3	0.081662554
1020	3	0.081672139

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1021	3	0.081681723
1022	3	0.081691306
1023	3	0.081700887
1024	3	0.081710467
1025	3	0.081720046
1026	3	0.081729624
1027	3	0.081739201
1028	3	0.081748776
1029	3	0.08175835
1030	3	0.081767923
1031	3	0.081777495
1032	3	0.081787065
1033	3	0.081796634
1034	3	0.081806202
1035	3	0.081815769
1036	3	0.081825334
1037	3	0.081834899
1038	3	0.081844462
1039	3	0.081854024
1040	3	0.081863585
1041	3	0.081873144
1042	3	0.081882702
1043	3	0.08189226
1044	3	0.081901816
1045	3	0.08191137
1046	3	0.081920924
1047	3	0.081930476
1048	3	0.081940027
1049	3	0.081949577
1050	3	0.081959126
1051	3	0.081968674
1052	3	0.08197822
1053	3	0.081987765
1054	3	0.081997309
1055	3	0.082006852
1056	3	0.082016394
1057	3	0.082025934
1058	3	0.082035474
1059	3	0.082045012
1060	3	0.082054549
1061	3	0.082064085

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1062	3	0.082073619
1063	3	0.082083153
1064	3	0.082092685
1065	3	0.082102216
1066	3	0.082111746
1067	3	0.082121275
1068	3	0.082130803
1069	3	0.082140329
1070	3	0.082149855
1071	3	0.082159379
1072	3	0.082168902
1073	3	0.082178424
1074	3	0.082187945
1075	3	0.082197464
1076	3	0.082206983
1077	3	0.0822165
1078	3	0.082226016
1079	3	0.082235531
1080	3	0.082245045
1081	3	0.082254558
1082	3	0.08226407
1083	3	0.08227358
1084	3	0.08228309
1085	3	0.082292598
1086	3	0.082302105
1087	3	0.082311611
1088	3	0.082321116
1089	3	0.08233062
1090	3	0.082340122
1091	3	0.082349624
1092	3	0.082359124
1093	3	0.082368623
1094	3	0.082378121
1095	3	0.082387618
1096	3	0.082397114
1097	3	0.082406609
1098	3	0.082416103
1099	3	0.082425595
1100	3	0.082435087
1101	3	0.082444577
1102	3	0.082454066

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1103	3	0.082463554
1104	3	0.082473041
1105	3	0.082482527
1106	3	0.082492012
1107	3	0.082501496
1108	3	0.082510978
1109	3	0.08252046
1110	3	0.08252994
1111	3	0.08253942
1112	3	0.082548898
1113	3	0.082558375
1114	3	0.082567851
1115	3	0.082577326
1116	3	0.0825868
1117	3	0.082596273
1118	3	0.082605744
1119	3	0.082615215
1120	3	0.082624684
1121	3	0.082634153
1122	3	0.08264362
1123	3	0.082653087
1124	3	0.082662552
1125	3	0.082672016
1126	3	0.082681479
1127	3	0.082690941
1128	3	0.082700402
1129	3	0.082709862
1130	3	0.082719321
1131	3	0.082728778
1132	3	0.082738235
1133	3	0.082747691
1134	3	0.082757145
1135	3	0.082766599
1136	3	0.082776051
1137	3	0.082785502
1138	3	0.082794953
1139	3	0.082804402
1140	3	0.08281385
1141	3	0.082823297
1142	3	0.082832743
1143	3	0.082842188

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1144	3	0.082851632
1145	3	0.082861075
1146	3	0.082870517
1147	3	0.082879958
1148	3	0.082889398
1149	3	0.082898836
1150	3	0.082908274
1151	3	0.082917711
1152	3	0.082927146
1153	3	0.082936581
1154	3	0.082946015
1155	3	0.082955447
1156	3	0.082964878
1157	3	0.082974309
1158	3	0.082983738
1159	3	0.082993167
1160	3	0.083002594
1161	3	0.08301202
1162	3	0.083021446
1163	3	0.08303087
1164	3	0.083040293
1165	3	0.083049715
1166	3	0.083059136
1167	3	0.083068557
1168	3	0.083077976
1169	3	0.083087394
1170	3	0.083096811
1171	3	0.083106227
1172	3	0.083115642
1173	3	0.083125056
1174	3	0.083134469
1175	3	0.083143881
1176	3	0.083153292
1177	3	0.083162702
1178	3	0.083172111
1179	3	0.083181519
1180	3	0.083190926
1181	3	0.083200332
1182	3	0.083209737
1183	3	0.083219141
1184	3	0.083228544

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1185	3	0.083237946
1186	3	0.083247347
1187	3	0.083256747
1188	3	0.083266146
1189	3	0.083275544
1190	3	0.083284941
1191	3	0.083294337
1192	3	0.083303732
1193	3	0.083313126
1194	3	0.083322519
1195	3	0.083331911
1196	3	0.083341302
1197	3	0.083350692
1198	3	0.083360081
1199	3	0.083369469
1200	3	0.083378856
1201	3	0.083388242
1202	3	0.083397627
1203	3	0.083407011
1204	3	0.083416394
1205	3	0.083425776
1206	3	0.083435158
1207	3	0.083444538
1208	3	0.083453917
1209	3	0.083463295
1210	3	0.083472672
1211	3	0.083482049
1212	3	0.083491424
1213	3	0.083500798
1214	3	0.083510172
1215	3	0.083519544
1216	3	0.083528916
1217	3	0.083538286
1218	3	0.083547656
1219	3	0.083557024
1220	3	0.083566392
1221	3	0.083575759
1222	3	0.083585124
1223	3	0.083594489
1224	3	0.083603853
1225	3	0.083613215

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1226	3	0.083622577
1227	3	0.083645031
1228	3	0.083663919
1229	3	0.083680288
1230	3	0.08369488
1231	3	0.083708219
1232	3	0.083720675
1233	3	0.083732511
1234	3	0.08374391
1235	3	0.083755003
1236	3	0.083765879
1237	3	0.083776604
1238	3	0.083787223
1239	3	0.083797767
1240	3	0.083808258
1241	3	0.083818712
1242	3	0.083829139
1243	3	0.083839548
1244	3	0.083849943
1245	3	0.083860328
1246	3	0.083870707
1247	3	0.08388108
1248	3	0.083891448
1249	3	0.083901814
1250	3	0.083912177
1251	3	0.083922538
1252	3	0.083932898
1253	3	0.083943255
1254	3	0.083953611
1255	3	0.083963966
1256	3	0.083974319
1257	3	0.083984672
1258	3	0.083995022
1259	3	0.084005372
1260	3	0.084015721
1261	3	0.084026068
1262	3	0.084036414
1263	3	0.084046759
1264	3	0.084057103
1265	3	0.084067446
1266	3	0.084077788

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1267	3	0.084088128
1268	3	0.084098467
1269	3	0.084108806
1270	3	0.084119143
1271	3	0.084129479
1272	3	0.084139813
1273	3	0.084150147
1274	3	0.084160479
1275	3	0.084170811
1276	3	0.084181141
1277	3	0.08419147
1278	3	0.084201798
1279	3	0.084212125
1280	3	0.084222451
1281	3	0.084232775
1282	3	0.084243099
1283	3	0.084253421
1284	3	0.084263742
1285	3	0.084274062
1286	3	0.084284381
1287	3	0.084294699
1288	3	0.084305016
1289	3	0.084315331
1290	3	0.084325646
1291	3	0.084335959
1292	3	0.084346272
1293	3	0.084356583
1294	3	0.084366893
1295	3	0.084377202
1296	3	0.084387509
1297	3	0.084397816
1298	3	0.084408122
1299	3	0.084418426
1300	3	0.084428729
1301	3	0.084439032
1302	3	0.084449333
1303	3	0.084459633
1304	3	0.084469932
1305	3	0.08448023
1306	3	0.084490526
1307	3	0.084500822

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1308	3	0.084511116
1309	3	0.08452141
1310	3	0.084531702
1311	3	0.084541993
1312	3	0.084552284
1313	3	0.084562573
1314	3	0.08457286
1315	3	0.084583147
1316	3	0.084593433
1317	3	0.084603718
1318	3	0.084614001
1319	3	0.084624284
1320	3	0.084634565
1321	3	0.084644845
1322	3	0.084655125
1323	3	0.084665403
1324	3	0.08467568
1325	3	0.084685956
1326	3	0.08469623
1327	3	0.084706504
1328	3	0.084716777
1329	3	0.084727049
1330	3	0.084737319
1331	3	0.084747588
1332	3	0.084757857
1333	3	0.084768124
1334	3	0.08477839
1335	3	0.084788655
1336	3	0.08479892
1337	3	0.084809183
1338	3	0.084819444
1339	3	0.084829705
1340	3	0.084839965
1341	3	0.084850224
1342	3	0.084860481
1343	3	0.084870738
1344	3	0.084880993
1345	3	0.084891248
1346	3	0.084901501
1347	3	0.084911753
1348	3	0.084922005

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1349	3	0.084932255
1350	3	0.084942504
1351	3	0.084952752
1352	3	0.084962999
1353	3	0.084973245
1354	3	0.08498349
1355	3	0.084993733
1356	3	0.085003976
1357	3	0.085014218
1358	3	0.085024458
1359	3	0.085034698
1360	3	0.085044936
1361	3	0.085055174
1362	3	0.08506541
1363	3	0.085075646
1364	3	0.08508588
1365	3	0.085096113
1366	3	0.085106345
1367	3	0.085116576
1368	3	0.085126807
1369	3	0.085137036
1370	3	0.085147264
1371	3	0.08515749
1372	3	0.085167716
1373	3	0.085177941
1374	3	0.085188165
1375	3	0.085198388
1376	3	0.08520861
1377	3	0.08521883
1378	3	0.08522905
1379	3	0.085239269
1380	3	0.085249486
1381	3	0.085259703
1382	3	0.085269918
1383	3	0.085280133
1384	3	0.085290346
1385	3	0.085300558
1386	3	0.08531077
1387	3	0.08532098
1388	3	0.085331189
1389	3	0.085341398

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1390	3	0.085351605
1391	3	0.085361811
1392	3	0.085372016
1393	3	0.08538222
1394	3	0.085392423
1395	3	0.085402626
1396	3	0.085412827
1397	3	0.085423027
1398	3	0.085433226
1399	3	0.085443424
1400	3	0.085453621
1401	3	0.085463817
1402	3	0.085474011
1403	3	0.085484205
1404	3	0.085494398
1405	3	0.08550459
1406	3	0.085514781
1407	3	0.085524971
1408	3	0.08553516
1409	3	0.085545347
1410	3	0.085555534
1411	3	0.08556572
1412	3	0.085575905
1413	3	0.085586088
1414	3	0.085596271
1415	3	0.085606453
1416	3	0.085616633
1417	3	0.085626813
1418	3	0.085636992
1419	3	0.08564717
1420	3	0.085657346
1421	3	0.085667522
1422	3	0.085677696
1423	3	0.08568787
1424	3	0.085698043
1425	3	0.085708214
1426	3	0.085718385
1427	3	0.085728555
1428	3	0.085738723
1429	3	0.085748891
1430	3	0.085759058

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1431	3	0.085769223
1432	3	0.085779388
1433	3	0.085789551
1434	3	0.085799714
1435	3	0.085809876
1436	3	0.085820036
1437	3	0.085830196
1438	3	0.085840355
1439	3	0.085850512
1440	3	0.085860669
1441	3	0.085870825
1442	3	0.085880979
1443	3	0.085891133
1444	3	0.085901286
1445	3	0.085911437
1446	3	0.085921588
1447	3	0.085931738
1448	3	0.085941887
1449	3	0.085952034
1450	3	0.085962181
1451	3	0.085972327
1452	3	0.085982472
1453	3	0.085992615
1454	3	0.086002758
1455	3	0.0860129
1456	3	0.086023041
1457	3	0.086033181
1458	3	0.08604332
1459	3	0.086053458
1460	3	0.086063595
1461	3	0.086073731
1462	3	0.086083866
1463	3	0.086094
1464	3	0.086104133
1465	3	0.086114265
1466	3	0.086124396
1467	3	0.086134526
1468	3	0.086144655
1469	3	0.086154783
1470	3	0.08616491
1471	3	0.086175037

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1472	3	0.086185162
1473	3	0.086195286
1474	3	0.086205409
1475	3	0.086215532
1476	3	0.086225653
1477	3	0.086235773
1478	3	0.086245893
1479	3	0.086256011
1480	3	0.086266129
1481	3	0.086276245
1482	3	0.086286361
1483	3	0.086296476
1484	3	0.086306589
1485	3	0.086316702
1486	3	0.086326814
1487	3	0.086336924
1488	3	0.086347034
1489	3	0.086357143
1490	3	0.086367251
1491	3	0.086377358
1492	3	0.086387464
1493	3	0.086397569
1494	3	0.086407673
1495	3	0.086417776
1496	3	0.086427878
1497	3	0.086437979
1498	3	0.086448079
1499	3	0.086458179
1500	3	0.086468277
1501	3	0.086478374
1502	3	0.086488471
1503	3	0.086498566
1504	3	0.086508661
1505	3	0.086518754
1506	3	0.086528847
1507	3	0.086538939
1508	3	0.086549029
1509	3	0.086559119
1510	3	0.086569208
1511	3	0.086579296
1512	3	0.086589383

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1513	3	0.086599469
1514	3	0.086609554
1515	3	0.086619638
1516	3	0.086629721
1517	3	0.086639803
1518	3	0.086649884
1519	3	0.086659965
1520	3	0.086670044
1521	3	0.086680123
1522	3	0.0866902
1523	3	0.086700277
1524	3	0.086710352
1525	3	0.086720427
1526	3	0.086730501
1527	3	0.086740573
1528	3	0.086750645
1529	3	0.086760716
1530	3	0.086770786
1531	3	0.086780855
1532	3	0.086790924
1533	3	0.086800991
1534	3	0.086811057
1535	3	0.086821122
1536	3	0.086831187
1537	3	0.08684125
1538	3	0.086851313
1539	3	0.086861375
1540	3	0.086871435
1541	3	0.086881495
1542	3	0.086891554
1543	3	0.086901612
1544	3	0.086911669
1545	3	0.086921725
1546	3	0.08693178
1547	3	0.086941834
1548	3	0.086951887
1549	3	0.08696194
1550	3	0.086971991
1551	3	0.086982042
1552	3	0.086992091
1553	3	0.08700214

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1554	3	0.087012188
1555	3	0.087022235
1556	3	0.087032281
1557	3	0.087042326
1558	3	0.08705237
1559	3	0.087062413
1560	3	0.087072455
1561	3	0.087082497
1562	3	0.087092537
1563	3	0.087102577
1564	3	0.087112615
1565	3	0.087122653
1566	3	0.08713269
1567	3	0.087142725
1568	3	0.08715276
1569	3	0.087162794
1570	3	0.087172828
1571	3	0.08718286
1572	3	0.087192891
1573	3	0.087202921
1574	3	0.087212951
1575	3	0.087222979
1576	3	0.087233007
1577	3	0.087243034
1578	3	0.08725306
1579	3	0.087263085
1580	3	0.087273109
1581	3	0.087283132
1582	3	0.087293154
1583	3	0.087303175
1584	3	0.087313196
1585	3	0.087323215
1586	3	0.087333234
1587	3	0.087343252
1588	3	0.087353269
1589	3	0.087363284
1590	3	0.087373299
1591	3	0.087383314
1592	3	0.087393327
1593	3	0.087403339
1594	3	0.087413351

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1595	3	0.087423361
1596	3	0.087433371
1597	3	0.087443379
1598	3	0.087453387
1599	3	0.087463394
1600	3	0.0874734
1601	3	0.087483405
1602	3	0.08749341
1603	3	0.087503413
1604	3	0.087513415
1605	3	0.087523417
1606	3	0.087533418
1607	3	0.087543418
1608	3	0.087553416
1609	3	0.087563414
1610	3	0.087573412
1611	3	0.087583408
1612	3	0.087593403
1613	3	0.087603398
1614	3	0.087613391
1615	3	0.087623384
1616	3	0.087633376
1617	3	0.087643367
1618	3	0.087653357
1619	3	0.087663346
1620	3	0.087673334
1621	3	0.087683321
1622	3	0.087693308
1623	3	0.087703294
1624	3	0.087713278
1625	3	0.087723262
1626	3	0.087733245
1627	3	0.087743227
1628	3	0.087753208
1629	3	0.087763189
1630	3	0.087773168
1631	3	0.087783147
1632	3	0.087793124
1633	3	0.087803101
1634	3	0.087813077
1635	3	0.087823052

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1636	3	0.087833026
1637	3	0.087843
1638	3	0.087852972
1639	3	0.087862944
1640	3	0.087872914
1641	3	0.087882884
1642	3	0.087892853
1643	3	0.087902821
1644	3	0.087912788
1645	3	0.087922755
1646	3	0.08793272
1647	3	0.087942685
1648	3	0.087952649
1649	3	0.087962611
1650	3	0.087972573
1651	3	0.087982534
1652	3	0.087992495
1653	3	0.088002454
1654	3	0.088012413
1655	3	0.08802237
1656	3	0.088032327
1657	3	0.088042283
1658	3	0.088052238
1659	3	0.088062192
1660	3	0.088072145
1661	3	0.088082098
1662	3	0.088092049
1663	3	0.088102
1664	3	0.08811195
1665	3	0.088121899
1666	3	0.088131847
1667	3	0.088141794
1668	3	0.088151741
1669	3	0.088161686
1670	3	0.088171631
1671	3	0.088181575
1672	3	0.088191518
1673	3	0.08820146
1674	3	0.088211401
1675	3	0.088221342
1676	3	0.088231281

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1677	3	0.08824122
1678	3	0.088251158
1679	3	0.088261095
1680	3	0.088271031
1681	3	0.088280966
1682	3	0.0882909
1683	3	0.088300834
1684	3	0.088310767
1685	3	0.088320699
1686	3	0.08833063
1687	3	0.08834056
1688	3	0.088350489
1689	3	0.088360417
1690	3	0.088370345
1691	3	0.088380272
1692	3	0.088390198
1693	3	0.088400123
1694	3	0.088410047
1695	3	0.08841997
1696	3	0.088429893
1697	3	0.088439814
1698	3	0.088449735
1699	3	0.088459655
1700	3	0.088469574
1701	3	0.088479493
1702	3	0.08848941
1703	3	0.088499327
1704	3	0.088509242
1705	3	0.088519157
1706	3	0.088529071
1707	3	0.088538985
1708	3	0.088548897
1709	3	0.088558808
1710	3	0.088568719
1711	3	0.088578629
1712	3	0.088588538
1713	3	0.088598446
1714	3	0.088608353
1715	3	0.08861826
1716	3	0.088628166
1717	3	0.08863807

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1718	3	0.088647974
1719	3	0.088657878
1720	3	0.08866778
1721	3	0.088677681
1722	3	0.088687582
1723	3	0.088697482
1724	3	0.088707381
1725	3	0.088717279
1726	3	0.088727176
1727	3	0.088737073
1728	3	0.088746968
1729	3	0.088756863
1730	3	0.088766757
1731	3	0.08877665
1732	3	0.088786542
1733	3	0.088796434
1734	3	0.088806324
1735	3	0.088816214
1736	3	0.088826103
1737	3	0.088835991
1738	3	0.088845879
1739	3	0.088855765
1740	3	0.088865651
1741	3	0.088875536
1742	3	0.08888542
1743	3	0.088895303
1744	3	0.088905185
1745	3	0.088915067
1746	3	0.088924947
1747	3	0.088934827
1748	3	0.088944706
1749	3	0.088954584
1750	3	0.088964462
1751	3	0.088974338
1752	3	0.088984214
1753	3	0.088994089
1754	3	0.089003963
1755	3	0.089013836
1756	3	0.089023709
1757	3	0.08903358
1758	3	0.089043451

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1759	3	0.089053321
1760	3	0.08906319
1761	3	0.089073059
1762	3	0.089082926
1763	3	0.089092793
1764	3	0.089102659
1765	3	0.089112524
1766	3	0.089122388
1767	3	0.089132252
1768	3	0.089142114
1769	3	0.089151976
1770	3	0.089161837
1771	3	0.089171697
1772	3	0.089181557
1773	3	0.089191415
1774	3	0.089201273
1775	3	0.08921113
1776	3	0.089220986
1777	3	0.089230841
1778	3	0.089240696
1779	3	0.089250549
1780	3	0.089260402
1781	3	0.089270254
1782	3	0.089280105
1783	3	0.089289956
1784	3	0.089299805
1785	3	0.089309654
1786	3	0.089319502
1787	3	0.089329349
1788	3	0.089339196
1789	3	0.089349041
1790	3	0.089358886
1791	3	0.08936873
1792	3	0.089378573
1793	3	0.089388415
1794	3	0.089398257
1795	3	0.089408098
1796	3	0.089417938
1797	3	0.089427777
1798	3	0.089437615
1799	3	0.089447452

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1800	3	0.089457289
1801	3	0.089467125
1802	3	0.08947696
1803	3	0.089486794
1804	3	0.089496628
1805	3	0.089506461
1806	3	0.089516292
1807	3	0.089526123
1808	3	0.089535954
1809	3	0.089545783
1810	3	0.089555612
1811	3	0.08956544
1812	4	0.093041842
1813	4	0.097099663
1814	4	0.101040971
1815	4	0.104917131
1816	4	0.108745665
1817	4	0.112533422
1818	4	0.116283597
1819	5	0.119911073
1820	5	0.120295518
1821	5	0.120688663
1822	5	0.121086137
1823	5	0.121485665
1824	5	0.121886059
1825	5	0.122286698
1826	5	0.122687258
1827	5	0.123087572
1828	5	0.123487549
1829	5	0.123887145
1830	5	0.124286335
1831	5	0.124685108
1832	5	0.125083459
1833	5	0.125481384
1834	5	0.125878884
1835	5	0.126275959
1836	5	0.12667261
1837	5	0.127068837
1838	5	0.127464643
1839	5	0.127860027
1840	5	0.128254992

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1841	5	0.128649538
1842	5	0.129043667
1843	5	0.129437381
1844	5	0.129830681
1845	5	0.130223567
1846	5	0.130616042
1847	5	0.131008106
1848	5	0.13139976
1849	5	0.131791007
1850	5	0.132181848
1851	5	0.132572282
1852	5	0.132962313
1853	5	0.133351941
1854	5	0.133741167
1855	5	0.134129993
1856	5	0.134518419
1857	5	0.134906448
1858	5	0.135294079
1859	5	0.135681316
1860	5	0.136068157
1861	5	0.136454606
1862	5	0.136840663
1863	5	0.137226329
1864	5	0.137611605
1865	5	0.137996493
1866	5	0.138380993
1867	5	0.138765108
1868	5	0.139148838
1869	5	0.139532183
1870	5	0.139915147
1871	5	0.140297728
1872	5	0.14067993
1873	6	0.140959633
1874	6	0.141068133
1875	6	0.141176746
1876	6	0.14128541
1877	6	0.141394088
1878	6	0.141502759
1879	6	0.141611412
1880	6	0.14172004
1881	6	0.14182864

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1882	6	0.141937208
1883	6	0.142045745
1884	6	0.142154249
1885	6	0.14226272
1886	6	0.142371158
1887	6	0.142479563
1888	6	0.142587934
1889	6	0.142696272
1890	6	0.142804577
1891	6	0.142912848
1892	6	0.143021086
1893	6	0.143129291
1894	6	0.143237463
1895	6	0.143345601
1896	6	0.143453706
1897	6	0.143561778
1898	6	0.143669817
1899	6	0.143777823
1900	6	0.143885796
1901	6	0.143993735
1902	6	0.144101642
1903	6	0.144209516
1904	6	0.144317357
1905	6	0.144425165
1906	6	0.14453294
1907	6	0.144640682
1908	6	0.144748391
1909	6	0.144856068
1910	6	0.144963712
1911	6	0.145071323
1912	6	0.145178902
1913	6	0.145286448
1914	6	0.145393961
1915	6	0.145501442
1916	6	0.14560889
1917	6	0.145716306
1918	6	0.145823689
1919	6	0.145931039
1920	6	0.146038358
1921	6	0.146145643
1922	6	0.146252897

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1923	6	0.146360118
1924	6	0.146467307
1925	6	0.146574463
1926	6	0.146681588
1927	6	0.14678868
1928	7	0.146913088
1929	7	0.147358047
1930	7	0.147801678
1931	7	0.148244349
1932	7	0.148686266
1933	7	0.149127547
1934	7	0.149568255
1935	7	0.150008429
1936	7	0.150448089
1937	7	0.15088725
1938	7	0.151325918
1939	7	0.151764099
1940	7	0.152201797
1941	7	0.152639013
1942	7	0.153075752
1943	7	0.153512013
1944	7	0.1539478
1945	7	0.154383113
1946	7	0.154817955
1947	7	0.155252326
1948	7	0.155686229
1949	7	0.156119665
1950	7	0.156552635
1951	7	0.156985141
1952	7	0.157417185
1953	7	0.157848768
1954	7	0.158279891
1955	7	0.158710556
1956	7	0.159140764
1957	7	0.159570517
1958	7	0.159999816
1959	7	0.160428663
1960	7	0.160857059
1961	7	0.161285006
1962	7	0.161712504
1963	7	0.162139556

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1964	7	0.162566162
1965	7	0.162992325
1966	7	0.163418045
1967	7	0.163843323
1968	7	0.164268162
1969	7	0.164692563
1970	7	0.165116527
1971	7	0.165540054
1972	7	0.165963148
1973	7	0.166385808
1974	7	0.166808037
1975	7	0.167229835
1976	7	0.167651204
1977	7	0.168072146
1978	7	0.16849266
1979	7	0.16891275
1980	7	0.169332416
1981	7	0.169751659
1982	7	0.170170481
1983	7	0.170588883
1984	7	0.171006866
1985	7	0.171424444
1986	8	0.171743572
1987	8	0.17179361
1988	8	0.171843717
1989	8	0.171893864
1990	8	0.171944032
1991	8	0.171994209
1992	8	0.172044389
1993	8	0.172094567
1994	8	0.172144742
1995	8	0.172194912
1996	8	0.172245075
1997	8	0.172295232
1998	8	0.172345382
1999	8	0.172395525
2000	8	0.172445661
2001	8	0.172495789
2002	8	0.172545911
2003	8	0.172596024
2004	8	0.172646131

	AU	AV
20	Channel Box CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
2005	8	0.17269623
2006	8	0.172746322
2007	8	0.172796407
2008	8	0.172846484
2009	8	0.172896554
2010	8	0.172946617
2011	8	0.172996672
2012	8	0.17304672
2013	8	0.173096761
2014	8	0.173146794
2015	8	0.17319682
2016	8	0.173246839
2017	8	0.173296851
2018	8	0.173346855
2019	8	0.173396852
2020	8	0.173446842
2021	8	0.173496824
2022	8	0.173546799
2023	8	0.173596767

	AW	AX
1		
2		
3		
4		
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13		
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15		
16		
17		
18		
19	x=MATCH(AG24,\$I\$3:\$I\$16)	x=INDEX(\$L\$3:\$L\$16,AW24)+(AG24-INDEX(\$I\$3:\$I\$16,AW24))*(INDEX(\$L\$3:\$L\$16,AW24+1)-INDEX(\$L\$3:\$L\$16,AW24))/(INDEX(\$I\$3:\$I\$16,AW24+1)-INDEX(\$I\$3:\$I\$16,AW24))
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
23	1	0.068221116
24	1	0.068221116
25	1	0.068221134
26	1	0.068221171
27	1	0.068221226
28	1	0.0682213
29	1	0.068221391
30	1	0.068221501
31	1	0.068221629
32	1	0.068221775
33	1	0.068221939
34	1	0.068222121
35	1	0.068222321
36	1	0.068222539

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
37	1	0.068222774
38	1	0.068223028
39	1	0.068223299
40	1	0.068223587
41	1	0.068223893
42	1	0.068224217
43	1	0.068224558
44	1	0.068224917
45	1	0.068225293
46	1	0.068225687
47	1	0.068226097
48	1	0.068226525
49	1	0.06822697
50	1	0.068227433
51	1	0.068227912
52	1	0.068228409
53	1	0.068228922
54	1	0.068229453
55	1	0.06823
56	1	0.068230564
57	1	0.068231145
58	1	0.068231743
59	1	0.068232358
60	1	0.068232989
61	1	0.068233637
62	1	0.068234302
63	1	0.068234983
64	1	0.068235681
65	1	0.068236395
66	1	0.068237126
67	1	0.068237873
68	1	0.068238637
69	1	0.068239417
70	1	0.068240213
71	1	0.068241025
72	1	0.068241854
73	1	0.068242699
74	1	0.068243559
75	1	0.068244436
76	1	0.06824533
77	1	0.068246239

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
78	1	0.068247164
79	1	0.068248104
80	1	0.068249061
81	1	0.068250034
82	1	0.068251022
83	1	0.068252027
84	1	0.068253047
85	1	0.068254082
86	1	0.068255134
87	1	0.068256201
88	1	0.068257283
89	1	0.068258382
90	1	0.068259495
91	1	0.068260624
92	1	0.068261769
93	1	0.068262929
94	1	0.068264104
95	1	0.068265295
96	1	0.068266501
97	1	0.068267722
98	1	0.068268959
99	1	0.06827021
100	1	0.068271477
101	1	0.068272759
102	1	0.068274056
103	1	0.068275368
104	1	0.068276695
105	1	0.068278038
106	1	0.068279395
107	1	0.068280767
108	1	0.068282153
109	1	0.068283555
110	1	0.068284972
111	1	0.068286403
112	1	0.068287849
113	1	0.06828931
114	1	0.068290785
115	1	0.068292275
116	1	0.06829378
117	1	0.068295299
118	1	0.068296833

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
119	1	0.068298381
120	1	0.068299944
121	1	0.068301521
122	1	0.068303113
123	1	0.068304719
124	1	0.068306339
125	1	0.068307974
126	1	0.068309623
127	1	0.068311286
128	1	0.068312964
129	1	0.068314656
130	1	0.068316362
131	1	0.068318082
132	1	0.068319816
133	1	0.068321564
134	1	0.068323326
135	1	0.068325103
136	1	0.068326893
137	1	0.068328697
138	1	0.068330515
139	1	0.068332347
140	1	0.068334193
141	1	0.068336053
142	1	0.068337926
143	1	0.068339814
144	1	0.068341715
145	1	0.06834363
146	1	0.068345558
147	1	0.0683475
148	1	0.068349456
149	1	0.068351425
150	1	0.068353408
151	1	0.068355405
152	1	0.068357415
153	1	0.068359439
154	1	0.068361475
155	1	0.068363526
156	1	0.06836559
157	1	0.068367667
158	1	0.068369757
159	1	0.068371861

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
160	1	0.068373979
161	1	0.068376109
162	1	0.068378253
163	1	0.06838041
164	1	0.06838258
165	1	0.068384763
166	1	0.068386959
167	1	0.068389169
168	1	0.068391391
169	1	0.068393627
170	1	0.068395876
171	1	0.068398137
172	1	0.068400412
173	1	0.0684027
174	1	0.068405
175	1	0.068407314
176	1	0.06840964
177	1	0.068411979
178	1	0.068414331
179	1	0.068416696
180	1	0.068419074
181	1	0.068421464
182	1	0.068423867
183	1	0.068426283
184	1	0.068428711
185	1	0.068431153
186	1	0.068433606
187	1	0.068436073
188	1	0.068438552
189	1	0.068441043
190	1	0.068443547
191	1	0.068446064
192	1	0.068448593
193	1	0.068451134
194	1	0.068453688
195	1	0.068456255
196	1	0.068458834
197	1	0.068461425
198	1	0.068464028
199	1	0.068466644
200	1	0.068469272

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
201	1	0.068471913
202	1	0.068474566
203	1	0.068477231
204	1	0.068479908
205	1	0.068482597
206	1	0.068485299
207	1	0.068488013
208	1	0.068490738
209	1	0.068493476
210	1	0.068496227
211	1	0.068498989
212	1	0.068501763
213	1	0.068504549
214	1	0.068507347
215	1	0.068510158
216	1	0.06851298
217	1	0.068515814
218	1	0.06851866
219	1	0.068521518
220	1	0.068524388
221	1	0.06852727
222	1	0.068530163
223	1	0.068533068
224	1	0.068535986
225	1	0.068538915
226	1	0.068541855
227	1	0.068544808
228	1	0.068547772
229	1	0.068550748
230	1	0.068553736
231	1	0.068556735
232	1	0.068559746
233	1	0.068562768
234	1	0.068565803
235	1	0.068568848
236	1	0.068571906
237	1	0.068574975
238	1	0.068578055
239	1	0.068581147
240	1	0.06858425
241	1	0.068587365

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
242	1	0.068590492
243	1	0.06859363
244	1	0.068596779
245	1	0.06859994
246	1	0.068603112
247	1	0.068606295
248	1	0.06860949
249	1	0.068612696
250	1	0.068615914
251	1	0.068619143
252	1	0.068622383
253	1	0.068625634
254	1	0.068628897
255	1	0.068632171
256	1	0.068635456
257	1	0.068638753
258	1	0.06864206
259	1	0.068645379
260	1	0.068648709
261	1	0.06865205
262	1	0.068655402
263	1	0.068658765
264	1	0.06866214
265	1	0.068665525
266	1	0.068668922
267	1	0.068672329
268	1	0.068675748
269	1	0.068679178
270	1	0.068682619
271	1	0.06868607
272	1	0.068689533
273	1	0.068693007
274	1	0.068696491
275	1	0.068699987
276	1	0.068703493
277	1	0.068707011
278	1	0.068710539
279	1	0.068714078
280	1	0.068717628
281	1	0.068721189
282	1	0.068724761

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
283	1	0.068728343
284	1	0.068731937
285	1	0.068735541
286	1	0.068739156
287	1	0.068742782
288	1	0.068746418
289	1	0.068750065
290	1	0.068753723
291	1	0.068757392
292	1	0.068761072
293	1	0.068764762
294	1	0.068768462
295	1	0.068772174
296	1	0.068775896
297	1	0.068779629
298	1	0.068783372
299	1	0.068787126
300	1	0.068790891
301	1	0.068794666
302	1	0.068798452
303	1	0.068802249
304	1	0.068806056
305	1	0.068809873
306	1	0.068813701
307	1	0.06881754
308	1	0.068821389
309	1	0.068825249
310	1	0.068829119
311	1	0.068833
312	1	0.068836891
313	1	0.068840793
314	1	0.068844705
315	1	0.068848627
316	1	0.06885256
317	1	0.068856504
318	1	0.068860457
319	1	0.068864422
320	1	0.068868396
321	1	0.068872381
322	1	0.068876376
323	1	0.068880382

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
324	1	0.068884398
325	1	0.068888425
326	1	0.068892461
327	1	0.068896508
328	1	0.068900566
329	1	0.068904634
330	1	0.068908712
331	1	0.0689128
332	1	0.068916898
333	1	0.068921007
334	1	0.068925126
335	1	0.068929256
336	1	0.068933395
337	1	0.068937545
338	1	0.068941705
339	1	0.068945875
340	1	0.068950056
341	1	0.068954246
342	1	0.068958447
343	1	0.068962658
344	1	0.06896688
345	1	0.068971111
346	1	0.068975352
347	1	0.068979604
348	1	0.068983866
349	1	0.068988138
350	1	0.06899242
351	1	0.068996712
352	1	0.069001014
353	1	0.069005327
354	1	0.069009649
355	1	0.069013982
356	1	0.069018324
357	1	0.069022677
358	1	0.06902704
359	1	0.069031413
360	1	0.069035796
361	1	0.069040189
362	1	0.069044591
363	1	0.069049004
364	1	0.069053427

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
365	1	0.06905786
366	1	0.069062303
367	1	0.069066756
368	1	0.069071219
369	1	0.069075692
370	1	0.069080175
371	1	0.069084668
372	1	0.069089171
373	1	0.069093684
374	1	0.069098207
375	1	0.069102739
376	1	0.069107282
377	1	0.069111835
378	1	0.069116397
379	1	0.06912097
380	1	0.069125552
381	1	0.069130144
382	1	0.069134746
383	1	0.069139358
384	1	0.06914398
385	1	0.069148612
386	1	0.069153254
387	1	0.069157905
388	1	0.069162566
389	1	0.069167238
390	1	0.069171919
391	1	0.06917661
392	1	0.06918131
393	1	0.069186021
394	1	0.069190741
395	1	0.069195472
396	1	0.069200212
397	1	0.069204961
398	1	0.069209721
399	1	0.06921449
400	1	0.06921927
401	1	0.069224059
402	1	0.069228857
403	1	0.069233666
404	1	0.069238484
405	1	0.069243312

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
406	1	0.06924815
407	1	0.069252998
408	1	0.069257855
409	1	0.069262722
410	1	0.069267599
411	1	0.069272485
412	1	0.069277382
413	1	0.069282288
414	1	0.069287203
415	1	0.069292129
416	1	0.069297064
417	1	0.069302008
418	1	0.069306963
419	1	0.069311927
420	1	0.069316901
421	1	0.069321884
422	1	0.069326877
423	1	0.06933188
424	1	0.069336893
425	1	0.069341915
426	1	0.069346947
427	1	0.069351988
428	1	0.069357039
429	1	0.0693621
430	1	0.06936717
431	1	0.06937225
432	1	0.06937734
433	1	0.069382439
434	1	0.069387548
435	1	0.069392666
436	1	0.069397794
437	1	0.069402931
438	1	0.069408079
439	1	0.069413235
440	1	0.069418402
441	1	0.069423578
442	1	0.069428763
443	1	0.069433958
444	1	0.069439163
445	1	0.069444377
446	1	0.0694496

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
447	1	0.069454834
448	1	0.069460076
449	1	0.069465329
450	1	0.069470591
451	1	0.069475862
452	1	0.069481143
453	1	0.069486433
454	1	0.069491733
455	1	0.069497043
456	1	0.069502361
457	1	0.06950769
458	1	0.069513028
459	1	0.069518375
460	1	0.069523732
461	1	0.069529098
462	1	0.069534474
463	1	0.069539859
464	1	0.069545254
465	1	0.069550658
466	1	0.069556072
467	1	0.069561495
468	1	0.069566928
469	1	0.06957237
470	1	0.069577821
471	1	0.069583282
472	1	0.069588752
473	1	0.069594232
474	1	0.069599721
475	1	0.06960522
476	1	0.069610727
477	1	0.069616245
478	1	0.069621771
479	1	0.069627308
480	1	0.069632853
481	1	0.069638408
482	1	0.069643972
483	1	0.069649546
484	1	0.069655129
485	1	0.069660721
486	1	0.069666323
487	1	0.069671934

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
488	1	0.069677554
489	1	0.069683184
490	1	0.069688823
491	1	0.069694472
492	1	0.069700129
493	1	0.069705797
494	1	0.069711473
495	1	0.069717159
496	1	0.069722854
497	1	0.069728558
498	1	0.069734272
499	1	0.069739995
500	1	0.069745727
501	1	0.069751468
502	1	0.069757219
503	1	0.069762979
504	1	0.069768749
505	1	0.069774527
506	1	0.069780315
507	1	0.069786112
508	1	0.069791919
509	1	0.069797734
510	1	0.069803559
511	1	0.069809393
512	1	0.069815237
513	1	0.069821089
514	1	0.069826951
515	1	0.069832822
516	1	0.069838702
517	1	0.069844592
518	1	0.06985049
519	1	0.069856398
520	1	0.069862315
521	1	0.069868242
522	1	0.069874177
523	1	0.069880122
524	1	0.069886075
525	1	0.069892038
526	1	0.06989801
527	1	0.069903992
528	1	0.069909982

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
529	1	0.069915982
530	1	0.06992199
531	1	0.069928008
532	1	0.069934035
533	1	0.069940071
534	1	0.069946117
535	1	0.069952171
536	1	0.069958235
537	1	0.069964307
538	1	0.069970389
539	1	0.06997648
540	1	0.06998258
541	1	0.069988689
542	1	0.069994807
543	1	0.070000934
544	1	0.07000707
545	1	0.070013216
546	1	0.07001937
547	1	0.070025534
548	1	0.070031706
549	1	0.070037888
550	1	0.070044078
551	1	0.070050278
552	1	0.070056487
553	1	0.070062704
554	1	0.070068931
555	1	0.070075167
556	1	0.070081412
557	1	0.070087666
558	1	0.070093928
559	1	0.0701002
560	1	0.070106481
561	1	0.070112771
562	1	0.07011907
563	1	0.070125377
564	1	0.070131694
565	1	0.07013802
566	1	0.070144355
567	1	0.070150698
568	1	0.070157051
569	1	0.070163413

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
570	1	0.070169783
571	1	0.070176163
572	1	0.070182551
573	1	0.070188948
574	1	0.070195355
575	1	0.07020177
576	1	0.070208194
577	1	0.070214627
578	1	0.070221069
579	1	0.070227519
580	1	0.070233979
581	1	0.070240448
582	1	0.070246925
583	1	0.070253412
584	1	0.070259907
585	1	0.070266411
586	1	0.070272924
587	1	0.070279446
588	1	0.070285976
589	1	0.070292516
590	1	0.070299064
591	1	0.070305622
592	1	0.070312188
593	1	0.070318762
594	1	0.070325346
595	1	0.070331939
596	1	0.07033854
597	1	0.07034515
598	1	0.070351769
599	1	0.070358397
600	1	0.070365033
601	1	0.070371679
602	1	0.070378333
603	1	0.070384996
604	1	0.070391667
605	1	0.070398348
606	1	0.070405037
607	1	0.070411735
608	1	0.070418442
609	1	0.070425157
610	1	0.070431881

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
611	1	0.070438614
612	1	0.070445356
613	1	0.070452106
614	1	0.070458865
615	1	0.070465633
616	1	0.070472409
617	1	0.070479195
618	1	0.070485989
619	1	0.070492791
620	1	0.070499602
621	1	0.070506422
622	1	0.070513251
623	1	0.070520088
624	1	0.070526934
625	1	0.070533789
626	1	0.070540652
627	1	0.070547524
628	1	0.070554405
629	1	0.070561294
630	1	0.070568192
631	1	0.070575098
632	1	0.070582014
633	1	0.070588937
634	1	0.07059587
635	1	0.070602811
636	1	0.07060976
637	1	0.070616718
638	1	0.070623685
639	1	0.070630661
640	1	0.070637644
641	1	0.070644637
642	1	0.070651638
643	1	0.070658648
644	1	0.070665666
645	1	0.070672693
646	1	0.070679728
647	1	0.070686772
648	1	0.070693824
649	1	0.070700885
650	1	0.070707955
651	1	0.070715033

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
652	1	0.070722119
653	1	0.070729214
654	1	0.070736318
655	1	0.07074343
656	1	0.07075055
657	1	0.07075768
658	1	0.070764817
659	1	0.070771963
660	1	0.070779118
661	1	0.07078628
662	1	0.070793452
663	1	0.070800632
664	1	0.07080782
665	1	0.070815017
666	1	0.070822222
667	1	0.070829436
668	1	0.070836658
669	1	0.070843889
670	1	0.070851127
671	1	0.070858375
672	1	0.070865631
673	1	0.070872895
674	1	0.070880167
675	1	0.070887448
676	1	0.070894738
677	1	0.070902036
678	1	0.070909342
679	1	0.070916656
680	1	0.070923979
681	1	0.070931311
682	1	0.07093865
683	1	0.070945998
684	1	0.070953355
685	1	0.070960719
686	1	0.070968092
687	1	0.070975474
688	1	0.070982863
689	1	0.070990261
690	1	0.070997668
691	1	0.071005082
692	1	0.071012505

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
693	1	0.071019937
694	1	0.071027376
695	1	0.071034824
696	1	0.07104228
697	1	0.071049745
698	1	0.071057217
699	1	0.071064698
700	1	0.071072188
701	1	0.071079685
702	1	0.071087191
703	1	0.071094705
704	1	0.071102227
705	1	0.071109758
706	1	0.071117296
707	1	0.071124843
708	1	0.071132398
709	1	0.071139962
710	1	0.071147533
711	1	0.071155113
712	1	0.071162701
713	1	0.071170297
714	1	0.071177902
715	1	0.071185514
716	1	0.071193135
717	1	0.071200764
718	1	0.071208401
719	1	0.071216046
720	1	0.0712237
721	1	0.071231362
722	1	0.071239031
723	1	0.071246709
724	1	0.071254395
725	1	0.071262089
726	1	0.071269792
727	1	0.071277502
728	1	0.071285221
729	1	0.071292947
730	1	0.071300682
731	1	0.071308425
732	1	0.071316176
733	1	0.071323935

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
734	1	0.071331702
735	1	0.071339477
736	1	0.07134726
737	1	0.071355052
738	1	0.071362851
739	1	0.071370659
740	1	0.071378474
741	1	0.071386298
742	1	0.071394129
743	1	0.071401969
744	1	0.071409817
745	1	0.071417673
746	1	0.071425536
747	1	0.071433408
748	1	0.071441288
749	1	0.071449176
750	1	0.071457071
751	1	0.071464975
752	1	0.071472887
753	1	0.071480807
754	1	0.071488735
755	1	0.07149667
756	1	0.071504614
757	1	0.071512566
758	1	0.071520525
759	1	0.071528493
760	1	0.071536469
761	1	0.071544452
762	1	0.071552443
763	1	0.071560443
764	1	0.07156845
765	1	0.071576465
766	1	0.071584489
767	1	0.07159252
768	1	0.071600559
769	1	0.071608605
770	1	0.07161666
771	1	0.071624723
772	1	0.071632793
773	1	0.071640872
774	1	0.071648958

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
775	1	0.071657052
776	1	0.071665155
777	1	0.071673265
778	1	0.071681382
779	1	0.071689508
780	1	0.071697641
781	1	0.071705783
782	1	0.071713932
783	1	0.071722089
784	1	0.071730254
785	1	0.071738427
786	1	0.071746607
787	1	0.071754795
788	1	0.071762991
789	1	0.071771195
790	1	0.071779407
791	1	0.071787627
792	1	0.071795854
793	1	0.071804089
794	1	0.071812332
795	1	0.071820582
796	1	0.071828841
797	1	0.071837107
798	1	0.071845381
799	1	0.071853663
800	1	0.071861952
801	1	0.071870249
802	1	0.071878554
803	1	0.071886867
804	1	0.071895187
805	1	0.071903515
806	1	0.071911851
807	1	0.071920194
808	1	0.071928546
809	1	0.071936904
810	1	0.071945271
811	1	0.071953645
812	1	0.071962027
813	1	0.071970417
814	1	0.071978814
815	1	0.071987219

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
816	1	0.071995632
817	1	0.072004052
818	1	0.07201248
819	1	0.072020916
820	1	0.072029359
821	1	0.07203781
822	1	0.072046269
823	1	0.072054735
824	1	0.072063209
825	1	0.07207169
826	1	0.072080179
827	1	0.072088676
828	1	0.07209718
829	1	0.072105692
830	1	0.072114212
831	1	0.072122739
832	1	0.072131273
833	2	0.072136268
834	2	0.072141188
835	2	0.072146112
836	2	0.072151041
837	2	0.072155975
838	2	0.072160913
839	2	0.072165856
840	2	0.072170803
841	2	0.072175755
842	2	0.072180711
843	2	0.072185673
844	2	0.072190638
845	2	0.072195609
846	2	0.072200583
847	2	0.072205563
848	2	0.072210547
849	2	0.072215535
850	2	0.072220529
851	2	0.072225526
852	2	0.072230528
853	2	0.072235535
854	2	0.072240547
855	2	0.072245563
856	2	0.072250583

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
857	2	0.072255608
858	2	0.072260638
859	2	0.072265672
860	2	0.072270711
861	2	0.072275754
862	2	0.072280802
863	2	0.072285854
864	2	0.072290911
865	2	0.072295972
866	2	0.072301038
867	2	0.072306108
868	2	0.072311183
869	2	0.072316263
870	2	0.072321347
871	2	0.072326435
872	2	0.072331528
873	2	0.072336626
874	2	0.072341728
875	2	0.072346834
876	2	0.072351946
877	2	0.072357061
878	2	0.072362181
879	2	0.072367306
880	2	0.072372435
881	2	0.072377568
882	2	0.072382706
883	2	0.072387849
884	2	0.072392996
885	2	0.072398147
886	2	0.072403303
887	2	0.072408464
888	2	0.072413629
889	2	0.072418798
890	2	0.072423972
891	2	0.072429151
892	2	0.072434333
893	2	0.072439521
894	2	0.072444712
895	2	0.072449909
896	2	0.072455109
897	2	0.072460314

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
898	2	0.072465524
899	2	0.072470738
900	2	0.072475957
901	2	0.072481179
902	2	0.072486407
903	2	0.072491639
904	2	0.072496875
905	2	0.072502116
906	2	0.072507361
907	2	0.07251261
908	2	0.072517864
909	2	0.072523123
910	2	0.072528386
911	2	0.072533653
912	2	0.072538925
913	2	0.072544201
914	2	0.072549481
915	2	0.072554766
916	2	0.072560056
917	2	0.072565349
918	2	0.072570647
919	2	0.07257595
920	2	0.072581257
921	2	0.072586568
922	2	0.072591884
923	2	0.072597204
924	2	0.072602529
925	2	0.072607858
926	2	0.072613191
927	2	0.072618529
928	2	0.072623871
929	2	0.072629218
930	2	0.072634568
931	2	0.072639924
932	2	0.072645283
933	2	0.072650647
934	2	0.072656016
935	2	0.072661388
936	2	0.072666765
937	2	0.072672147
938	2	0.072677533

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
939	2	0.072682923
940	2	0.072688317
941	2	0.072693716
942	2	0.072699119
943	2	0.072704527
944	2	0.072709939
945	2	0.072715355
946	2	0.072720776
947	2	0.072726201
948	2	0.07273163
949	2	0.072737064
950	2	0.072742502
951	2	0.072747944
952	2	0.07275339
953	2	0.072758841
954	2	0.072764297
955	2	0.072769756
956	2	0.07277522
957	2	0.072780688
958	2	0.072786161
959	2	0.072791638
960	2	0.072797119
961	2	0.072802604
962	2	0.072808094
963	2	0.072813588
964	2	0.072819086
965	2	0.072824589
966	2	0.072830096
967	2	0.072835607
968	2	0.072841123
969	2	0.072846642
970	2	0.072852167
971	2	0.072857695
972	2	0.072863228
973	2	0.072868765
974	2	0.072874306
975	2	0.072879851
976	2	0.072885401
977	2	0.072890955
978	2	0.072896513
979	2	0.072902076

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
980	2	0.072907643
981	2	0.072913214
982	2	0.072918789
983	2	0.072924369
984	2	0.072929953
985	2	0.072935541
986	2	0.072941133
987	2	0.07294673
988	2	0.07295233
989	2	0.072957935
990	2	0.072963545
991	2	0.072969158
992	2	0.072974776
993	2	0.072980398
994	2	0.072986024
995	2	0.072991655
996	2	0.07299729
997	2	0.073002928
998	2	0.073008572
999	2	0.073014219
1000	2	0.07301987
1001	2	0.073025526
1002	2	0.073031186
1003	2	0.07303685
1004	2	0.073042519
1005	2	0.073048192
1006	2	0.073053868
1007	2	0.073059549
1008	2	0.073065235
1009	2	0.073070924
1010	2	0.073076618
1011	2	0.073082315
1012	2	0.073088017
1013	2	0.073093724
1014	2	0.073099434
1015	2	0.073105148
1016	2	0.073110867
1017	2	0.07311659
1018	2	0.073122317
1019	2	0.073128048
1020	2	0.073133784

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1021	2	0.073139523
1022	2	0.073145267
1023	2	0.073151015
1024	2	0.073156767
1025	2	0.073162523
1026	2	0.073168284
1027	2	0.073174048
1028	2	0.073179817
1029	2	0.07318559
1030	2	0.073191367
1031	2	0.073197148
1032	2	0.073202933
1033	2	0.073208722
1034	2	0.073214516
1035	2	0.073220314
1036	2	0.073226116
1037	2	0.073231921
1038	2	0.073237732
1039	2	0.073243546
1040	2	0.073249364
1041	2	0.073255187
1042	2	0.073261013
1043	2	0.073266844
1044	2	0.073272679
1045	2	0.073278517
1046	2	0.07328436
1047	2	0.073290208
1048	2	0.073296059
1049	2	0.073301914
1050	2	0.073307774
1051	2	0.073313637
1052	2	0.073319505
1053	2	0.073325377
1054	2	0.073331252
1055	2	0.073337132
1056	2	0.073343016
1057	2	0.073348904
1058	2	0.073354797
1059	2	0.073360693
1060	2	0.073366593
1061	2	0.073372498

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1062	2	0.073378406
1063	2	0.073384319
1064	2	0.073390235
1065	2	0.073396156
1066	2	0.073402081
1067	2	0.073408009
1068	2	0.073413942
1069	2	0.073419879
1070	2	0.07342582
1071	2	0.073431765
1072	2	0.073437714
1073	2	0.073443668
1074	2	0.073449625
1075	2	0.073455586
1076	2	0.073461551
1077	2	0.073467521
1078	2	0.073473494
1079	2	0.073479471
1080	2	0.073485453
1081	2	0.073491438
1082	2	0.073497428
1083	2	0.073503421
1084	2	0.073509419
1085	2	0.07351542
1086	2	0.073521426
1087	2	0.073527435
1088	2	0.073533449
1089	2	0.073539467
1090	2	0.073545488
1091	2	0.073551514
1092	2	0.073557544
1093	2	0.073563577
1094	2	0.073569615
1095	2	0.073575657
1096	2	0.073581702
1097	2	0.073587752
1098	2	0.073593805
1099	2	0.073599863
1100	2	0.073605925
1101	2	0.07361199
1102	2	0.07361806

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1103	2	0.073624133
1104	2	0.073630211
1105	2	0.073636293
1106	2	0.073642378
1107	2	0.073648468
1108	2	0.073654561
1109	2	0.073660658
1110	2	0.07366676
1111	2	0.073672865
1112	2	0.073678974
1113	2	0.073685088
1114	2	0.073691205
1115	2	0.073697326
1116	2	0.073703451
1117	2	0.07370958
1118	2	0.073715713
1119	2	0.07372185
1120	2	0.073727991
1121	2	0.073734136
1122	2	0.073740285
1123	2	0.073746437
1124	2	0.073752594
1125	2	0.073758755
1126	2	0.073764919
1127	2	0.073771088
1128	2	0.07377726
1129	2	0.073783436
1130	2	0.073789616
1131	2	0.073795801
1132	2	0.073801989
1133	2	0.073808181
1134	2	0.073814377
1135	2	0.073820576
1136	2	0.07382678
1137	2	0.073832988
1138	2	0.073839199
1139	2	0.073845414
1140	2	0.073851634
1141	2	0.073857857
1142	2	0.073864084
1143	2	0.073870315

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1144	2	0.07387655
1145	2	0.073882789
1146	2	0.073889031
1147	2	0.073895278
1148	2	0.073901528
1149	2	0.073907783
1150	2	0.073914041
1151	2	0.073920303
1152	2	0.073926569
1153	2	0.073932838
1154	2	0.073939112
1155	2	0.07394539
1156	2	0.073951671
1157	2	0.073957956
1158	2	0.073964245
1159	2	0.073970538
1160	2	0.073976835
1161	2	0.073983136
1162	2	0.07398944
1163	2	0.073995748
1164	2	0.074002061
1165	2	0.074008377
1166	2	0.074014697
1167	2	0.07402102
1168	2	0.074027348
1169	2	0.074033679
1170	2	0.074040014
1171	2	0.074046353
1172	2	0.074052696
1173	2	0.074059043
1174	2	0.074065394
1175	2	0.074071748
1176	2	0.074078106
1177	2	0.074084468
1178	2	0.074090834
1179	2	0.074097203
1180	2	0.074103577
1181	2	0.074109954
1182	2	0.074116335
1183	2	0.07412272
1184	2	0.074129109

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1185	2	0.074135501
1186	2	0.074141897
1187	2	0.074148297
1188	2	0.074154701
1189	2	0.074161109
1190	2	0.07416752
1191	2	0.074173935
1192	2	0.074180354
1193	2	0.074186777
1194	2	0.074193203
1195	2	0.074199634
1196	2	0.074206068
1197	2	0.074212506
1198	2	0.074218947
1199	2	0.074225393
1200	2	0.074231842
1201	2	0.074238295
1202	2	0.074244751
1203	2	0.074251212
1204	2	0.074257676
1205	2	0.074264144
1206	2	0.074270615
1207	2	0.074277091
1208	2	0.07428357
1209	2	0.074290053
1210	2	0.07429654
1211	2	0.07430303
1212	2	0.074309524
1213	2	0.074316022
1214	2	0.074322524
1215	2	0.074329029
1216	2	0.074335538
1217	2	0.074342051
1218	2	0.074348568
1219	2	0.074355088
1220	2	0.074361612
1221	2	0.074368139
1222	2	0.074374671
1223	2	0.074381206
1224	2	0.074387745
1225	2	0.074394287

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1226	2	0.074400834
1227	2	0.074407384
1228	2	0.074413937
1229	2	0.074420495
1230	2	0.074427057
1231	2	0.074433623
1232	2	0.074440193
1233	2	0.074446768
1234	2	0.074453347
1235	2	0.074459931
1236	2	0.074466519
1237	2	0.074473111
1238	2	0.074479708
1239	2	0.07448631
1240	2	0.074492916
1241	2	0.074499527
1242	2	0.074506142
1243	2	0.074512762
1244	2	0.074519386
1245	2	0.074526014
1246	2	0.074532648
1247	2	0.074539285
1248	2	0.074545927
1249	2	0.074552574
1250	2	0.074559225
1251	2	0.074565881
1252	2	0.074572541
1253	2	0.074579205
1254	2	0.074585875
1255	2	0.074592548
1256	2	0.074599226
1257	2	0.074605909
1258	2	0.074612596
1259	2	0.074619287
1260	2	0.074625983
1261	2	0.074632683
1262	2	0.074639388
1263	2	0.074646097
1264	2	0.074652811
1265	2	0.074659529
1266	2	0.074666252

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1267	2	0.074672979
1268	2	0.074679711
1269	2	0.074686447
1270	2	0.074693187
1271	2	0.074699932
1272	2	0.074706681
1273	2	0.074713435
1274	2	0.074720193
1275	2	0.074726956
1276	2	0.074733723
1277	2	0.074740494
1278	2	0.07474727
1279	2	0.07475405
1280	2	0.074760835
1281	2	0.074767624
1282	2	0.074774417
1283	2	0.074781215
1284	2	0.074788018
1285	2	0.074794824
1286	2	0.074801635
1287	2	0.074808451
1288	2	0.074815271
1289	2	0.074822095
1290	2	0.074828923
1291	2	0.074835756
1292	2	0.074842594
1293	2	0.074849436
1294	2	0.074856282
1295	2	0.074863132
1296	2	0.074869987
1297	2	0.074876846
1298	2	0.07488371
1299	2	0.074890578
1300	2	0.07489745
1301	2	0.074904327
1302	2	0.074911208
1303	2	0.074918093
1304	2	0.074924983
1305	2	0.074931877
1306	2	0.074938775
1307	2	0.074945678

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1308	2	0.074952585
1309	2	0.074959497
1310	2	0.074966412
1311	2	0.074973333
1312	2	0.074980257
1313	2	0.074987186
1314	2	0.074994119
1315	2	0.075001056
1316	2	0.075007998
1317	2	0.075014944
1318	2	0.075021894
1319	2	0.075028849
1320	2	0.075035808
1321	2	0.075042771
1322	2	0.075049738
1323	2	0.07505671
1324	2	0.075063686
1325	2	0.075070667
1326	2	0.075077651
1327	2	0.07508464
1328	2	0.075091633
1329	2	0.075098631
1330	2	0.075105633
1331	2	0.075112639
1332	2	0.075119649
1333	2	0.075126664
1334	2	0.075133683
1335	2	0.075140706
1336	2	0.075147733
1337	2	0.075154765
1338	2	0.075161801
1339	2	0.075168841
1340	2	0.075175886
1341	2	0.075182934
1342	2	0.075189987
1343	2	0.075197044
1344	2	0.075204106
1345	2	0.075211172
1346	2	0.075218241
1347	2	0.075225316
1348	2	0.075232394

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1349	2	0.075239476
1350	2	0.075246563
1351	2	0.075253654
1352	2	0.07526075
1353	2	0.075267849
1354	2	0.075274953
1355	2	0.075282061
1356	2	0.075289173
1357	2	0.075296289
1358	2	0.07530341
1359	2	0.075310534
1360	2	0.075317663
1361	2	0.075324796
1362	2	0.075331934
1363	2	0.075339075
1364	2	0.075346221
1365	2	0.075353371
1366	2	0.075360525
1367	2	0.075367683
1368	2	0.075374845
1369	2	0.075382012
1370	2	0.075389183
1371	2	0.075396358
1372	2	0.075403537
1373	2	0.07541072
1374	2	0.075417907
1375	2	0.075425099
1376	2	0.075432295
1377	2	0.075439495
1378	2	0.075446699
1379	2	0.075453907
1380	2	0.075461119
1381	2	0.075468336
1382	2	0.075475556
1383	2	0.075482781
1384	2	0.07549001
1385	2	0.075497243
1386	2	0.07550448
1387	2	0.075511722
1388	2	0.075518967
1389	2	0.075526216

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1390	2	0.07553347
1391	2	0.075540728
1392	2	0.07554799
1393	2	0.07555256
1394	2	0.075562526
1395	2	0.0755698
1396	2	0.075577079
1397	2	0.075584361
1398	2	0.075591648
1399	2	0.075598938
1400	2	0.075606233
1401	2	0.075613532
1402	2	0.075620835
1403	2	0.075628142
1404	2	0.075635453
1405	2	0.075642768
1406	2	0.075650087
1407	2	0.07565741
1408	2	0.075664738
1409	2	0.075672069
1410	2	0.075679405
1411	2	0.075686744
1412	2	0.075694088
1413	2	0.075701436
1414	2	0.075708788
1415	2	0.075716143
1416	2	0.075723503
1417	2	0.075730867
1418	2	0.075738235
1419	2	0.075745607
1420	2	0.075752983
1421	2	0.075760364
1422	2	0.075767748
1423	2	0.075775136
1424	2	0.075782528
1425	2	0.075789924
1426	2	0.075797325
1427	2	0.075804729
1428	2	0.075812137
1429	2	0.07581955
1430	2	0.075826966

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1431	2	0.075834386
1432	2	0.075841811
1433	2	0.075849239
1434	2	0.075856672
1435	2	0.075864108
1436	2	0.075871549
1437	2	0.075878993
1438	2	0.075886441
1439	2	0.075893894
1440	2	0.07590135
1441	2	0.075908811
1442	2	0.075916275
1443	2	0.075923743
1444	2	0.075931216
1445	2	0.075938692
1446	2	0.075946172
1447	2	0.075953657
1448	2	0.075961145
1449	2	0.075968637
1450	2	0.075976133
1451	2	0.075983634
1452	2	0.075991138
1453	2	0.075998646
1454	2	0.076006158
1455	2	0.076013674
1456	2	0.076021194
1457	2	0.076028718
1458	2	0.076036245
1459	2	0.076043777
1460	2	0.076051313
1461	2	0.076058853
1462	2	0.076066396
1463	2	0.076073944
1464	2	0.076081495
1465	2	0.076089051
1466	2	0.07609661
1467	2	0.076104173
1468	2	0.07611174
1469	2	0.076119311
1470	2	0.076126886
1471	2	0.076134465

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1472	2	0.076142048
1473	2	0.076149635
1474	2	0.076157226
1475	2	0.07616482
1476	2	0.076172419
1477	2	0.076180021
1478	2	0.076187627
1479	2	0.076195237
1480	2	0.076202851
1481	2	0.076210469
1482	2	0.076218091
1483	2	0.076225717
1484	2	0.076233346
1485	2	0.07624098
1486	2	0.076248617
1487	2	0.076256258
1488	2	0.076263903
1489	2	0.076271552
1490	2	0.076279205
1491	2	0.076286862
1492	2	0.076294522
1493	2	0.076302187
1494	2	0.076309855
1495	2	0.076317527
1496	2	0.076325203
1497	2	0.076332883
1498	2	0.076340566
1499	2	0.076348254
1500	2	0.076355945
1501	2	0.07636364
1502	2	0.076371339
1503	2	0.076379042
1504	2	0.076386749
1505	2	0.076394459
1506	2	0.076402173
1507	2	0.076409892
1508	2	0.076417614
1509	2	0.076425339
1510	2	0.076433069
1511	2	0.076440802
1512	2	0.07644854

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1513	2	0.076456281
1514	2	0.076464025
1515	2	0.076471774
1516	2	0.076479527
1517	2	0.076487283
1518	2	0.076495043
1519	2	0.076502807
1520	2	0.076510574
1521	2	0.076518346
1522	2	0.076526121
1523	2	0.0765339
1524	2	0.076541683
1525	2	0.076549469
1526	2	0.076557259
1527	2	0.076565054
1528	2	0.076572851
1529	2	0.076580653
1530	2	0.076588459
1531	2	0.076596268
1532	2	0.076604081
1533	2	0.076611897
1534	2	0.076619718
1535	2	0.076627542
1536	2	0.07663537
1537	2	0.076643202
1538	2	0.076651037
1539	2	0.076658876
1540	2	0.076666719
1541	2	0.076674566
1542	2	0.076682416
1543	2	0.07669027
1544	2	0.076698128
1545	2	0.07670599
1546	2	0.076713855
1547	2	0.076721724
1548	2	0.076729597
1549	2	0.076737474
1550	2	0.076745354
1551	2	0.076753238
1552	2	0.076761126
1553	2	0.076769017

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1554	2	0.076776912
1555	2	0.076784811
1556	2	0.076792713
1557	2	0.076800619
1558	2	0.076808529
1559	2	0.076816443
1560	2	0.07682436
1561	2	0.076832281
1562	2	0.076840206
1563	2	0.076848134
1564	2	0.076856066
1565	2	0.076864002
1566	2	0.076871941
1567	2	0.076879884
1568	2	0.076887831
1569	2	0.076895781
1570	2	0.076903736
1571	2	0.076911693
1572	2	0.076919655
1573	2	0.07692762
1574	2	0.076935589
1575	2	0.076943561
1576	2	0.076951537
1577	2	0.076959517
1578	2	0.0769675
1579	2	0.076975487
1580	2	0.076983478
1581	2	0.076991472
1582	2	0.07699947
1583	2	0.077007471
1584	2	0.077015477
1585	2	0.077023485
1586	2	0.077031498
1587	2	0.077039514
1588	2	0.077047534
1589	2	0.077055557
1590	2	0.077063584
1591	2	0.077071615
1592	2	0.077079649
1593	2	0.077087687
1594	2	0.077095728

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1595	2	0.077103773
1596	2	0.077111822
1597	2	0.077119874
1598	2	0.07712793
1599	2	0.077135989
1600	2	0.077144052
1601	2	0.077152119
1602	2	0.077160189
1603	2	0.077168263
1604	2	0.07717634
1605	2	0.077184421
1606	2	0.077192506
1607	2	0.077200594
1608	2	0.077208686
1609	2	0.077216781
1610	2	0.07722488
1611	2	0.077232983
1612	2	0.077241089
1613	2	0.077249198
1614	2	0.077257311
1615	2	0.077265428
1616	2	0.077273548
1617	2	0.077281672
1618	2	0.0772898
1619	2	0.077297931
1620	2	0.077306065
1621	2	0.077314203
1622	2	0.077322345
1623	2	0.07733049
1624	2	0.077338639
1625	2	0.077346791
1626	2	0.077354946
1627	2	0.077363106
1628	2	0.077371269
1629	2	0.077379435
1630	2	0.077387605
1631	2	0.077395778
1632	2	0.077403955
1633	2	0.077412136
1634	2	0.077420319
1635	2	0.077428507

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1636	2	0.077436698
1637	2	0.077444892
1638	2	0.07745309
1639	2	0.077461292
1640	2	0.077469497
1641	2	0.077477705
1642	2	0.077485917
1643	2	0.077494133
1644	2	0.077502352
1645	2	0.077510574
1646	2	0.0775188
1647	2	0.07752703
1648	2	0.077535263
1649	2	0.077543499
1650	2	0.077551739
1651	2	0.077559982
1652	2	0.077568229
1653	2	0.07757648
1654	2	0.077584733
1655	2	0.077592991
1656	2	0.077601251
1657	2	0.077609516
1658	2	0.077617783
1659	2	0.077626054
1660	2	0.077634329
1661	2	0.077642607
1662	2	0.077650888
1663	2	0.077659173
1664	2	0.077667462
1665	2	0.077675753
1666	2	0.077684049
1667	2	0.077692347
1668	2	0.07770065
1669	2	0.077708955
1670	2	0.077717264
1671	2	0.077725577
1672	2	0.077733892
1673	2	0.077742212
1674	2	0.077750534
1675	2	0.077758861
1676	2	0.07776719

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1677	2	0.077775523
1678	2	0.077783859
1679	2	0.077792199
1680	2	0.077800542
1681	2	0.077808889
1682	2	0.077817239
1683	2	0.077825593
1684	2	0.077833949
1685	2	0.07784231
1686	2	0.077850673
1687	2	0.07785904
1688	2	0.077867411
1689	2	0.077875784
1690	2	0.077884162
1691	2	0.077892542
1692	2	0.077900926
1693	2	0.077909313
1694	2	0.077917704
1695	2	0.077926098
1696	2	0.077934496
1697	2	0.077942897
1698	2	0.077951301
1699	2	0.077959708
1700	2	0.077968119
1701	2	0.077976533
1702	2	0.077984951
1703	2	0.077993372
1704	2	0.078001796
1705	2	0.078010224
1706	2	0.078018655
1707	2	0.07802709
1708	2	0.078035527
1709	2	0.078043969
1710	2	0.078052413
1711	2	0.078060861
1712	2	0.078069312
1713	2	0.078077766
1714	2	0.078086224
1715	2	0.078094685
1716	2	0.07810315
1717	2	0.078111617

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1718	2	0.078120089
1719	2	0.078128563
1720	2	0.078137041
1721	2	0.078145522
1722	2	0.078154006
1723	2	0.078162494
1724	2	0.078170985
1725	2	0.078179479
1726	2	0.078187977
1727	2	0.078196478
1728	2	0.078204982
1729	2	0.078213489
1730	2	0.078222
1731	2	0.078230514
1732	2	0.078239032
1733	2	0.078247552
1734	2	0.078256076
1735	2	0.078264604
1736	2	0.078273134
1737	2	0.078281668
1738	2	0.078290205
1739	2	0.078298745
1740	2	0.078307289
1741	2	0.078315836
1742	2	0.078324386
1743	2	0.07833294
1744	2	0.078341496
1745	2	0.078350056
1746	2	0.07835862
1747	2	0.078367186
1748	2	0.078375756
1749	2	0.078384329
1750	2	0.078392905
1751	2	0.078401485
1752	2	0.078410067
1753	2	0.078418653
1754	2	0.078427243
1755	2	0.078435835
1756	2	0.078444431
1757	2	0.07845303
1758	2	0.078461632

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1759	2	0.078470237
1760	2	0.078478846
1761	2	0.078487458
1762	2	0.078496073
1763	2	0.078504691
1764	2	0.078513313
1765	2	0.078521938
1766	2	0.078530566
1767	2	0.078539197
1768	2	0.078547831
1769	2	0.078556469
1770	2	0.07856511
1771	2	0.078573754
1772	2	0.078582401
1773	2	0.078591052
1774	2	0.078599705
1775	2	0.078608362
1776	2	0.078617022
1777	2	0.078625686
1778	2	0.078634352
1779	2	0.078643022
1780	2	0.078651694
1781	2	0.07866037
1782	2	0.07866905
1783	2	0.078677732
1784	2	0.078686417
1785	2	0.078695106
1786	2	0.078703798
1787	2	0.078712493
1788	2	0.078721191
1789	2	0.078729893
1790	2	0.078738597
1791	2	0.078747305
1792	2	0.078756016
1793	2	0.07876473
1794	2	0.078773447
1795	2	0.078782167
1796	2	0.078790891
1797	2	0.078799617
1798	2	0.078808347
1799	2	0.07881708

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1800	2	0.078825816
1801	2	0.078834555
1802	2	0.078843298
1803	2	0.078852043
1804	2	0.078860792
1805	2	0.078869544
1806	2	0.078878299
1807	2	0.078887057
1808	2	0.078895818
1809	2	0.078904582
1810	2	0.078913349
1811	2	0.07892212
1812	2	0.078930893
1813	2	0.07893967
1814	2	0.07894845
1815	2	0.078957232
1816	2	0.078966017
1817	2	0.078974805
1818	2	0.078983595
1819	2	0.078992388
1820	2	0.079001184
1821	2	0.079009982
1822	2	0.079018782
1823	2	0.079027585
1824	2	0.07903639
1825	2	0.079045197
1826	2	0.079054007
1827	3	0.079061899
1828	3	0.079069032
1829	3	0.079076166
1830	3	0.079083304
1831	3	0.079090443
1832	3	0.079097584
1833	3	0.079104727
1834	3	0.079111872
1835	3	0.079119019
1836	3	0.079126168
1837	3	0.07913332
1838	3	0.079140473
1839	3	0.079147628
1840	3	0.079154785

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1841	3	0.079161944
1842	3	0.079169105
1843	3	0.079176268
1844	3	0.079183433
1845	3	0.0791906
1846	3	0.079197769
1847	3	0.07920494
1848	3	0.079212112
1849	3	0.079219287
1850	3	0.079226464
1851	3	0.079233642
1852	3	0.079240822
1853	3	0.079248004
1854	3	0.079255189
1855	3	0.079262374
1856	3	0.079269562
1857	3	0.079276752
1858	3	0.079283943
1859	3	0.079291137
1860	3	0.079298332
1861	3	0.079305529
1862	3	0.079312728
1863	3	0.079319928
1864	3	0.079327131
1865	3	0.079334335
1866	3	0.079341541
1867	3	0.079348749
1868	3	0.079355959
1869	3	0.07936317
1870	3	0.079370383
1871	3	0.079377598
1872	3	0.079384815
1873	3	0.079392033
1874	3	0.079399253
1875	3	0.079406475
1876	3	0.079413699
1877	3	0.079420924
1878	3	0.079428151
1879	3	0.07943538
1880	3	0.079442611
1881	3	0.079449843

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1882	3	0.079457077
1883	3	0.079464313
1884	3	0.07947155
1885	3	0.079478789
1886	3	0.07948603
1887	3	0.079493273
1888	3	0.079500517
1889	3	0.079507763
1890	3	0.079515011
1891	3	0.07952226
1892	3	0.079529511
1893	3	0.079536764
1894	3	0.079544019
1895	3	0.079551275
1896	3	0.079558533
1897	3	0.079565792
1898	3	0.079573054
1899	3	0.079580316
1900	3	0.079587581
1901	3	0.079594847
1902	3	0.079602115
1903	3	0.079609385
1904	3	0.079616656
1905	3	0.079623929
1906	3	0.079631203
1907	3	0.07963848
1908	3	0.079645758
1909	3	0.079653037
1910	3	0.079660318
1911	3	0.079667601
1912	3	0.079674886
1913	3	0.079682172
1914	3	0.07968946
1915	3	0.079696749
1916	3	0.07970404
1917	3	0.079711333
1918	3	0.079718627
1919	3	0.079725923
1920	3	0.07973322
1921	3	0.079740519
1922	3	0.07974782

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1923	3	0.079755123
1924	3	0.079762427
1925	3	0.079769732
1926	3	0.07977704
1927	3	0.079784348
1928	3	0.079791659
1929	3	0.079798971
1930	3	0.079806284
1931	3	0.0798136
1932	3	0.079820916
1933	3	0.079828235
1934	3	0.079835555
1935	3	0.079842876
1936	3	0.079850199
1937	3	0.079857524
1938	3	0.07986485
1939	3	0.079872178
1940	3	0.079879507
1941	3	0.079886837
1942	3	0.07989417
1943	3	0.079901503
1944	3	0.079908838
1945	3	0.079916175
1946	3	0.079923513
1947	3	0.079930853
1948	3	0.079938194
1949	3	0.079945537
1950	3	0.079952881
1951	3	0.079960226
1952	3	0.079967573
1953	3	0.079974921
1954	3	0.079982271
1955	3	0.079989622
1956	3	0.079996975
1957	3	0.080004329
1958	3	0.080011684
1959	3	0.080019041
1960	3	0.080026399
1961	3	0.080033758
1962	3	0.080041119
1963	3	0.080048482

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1964	3	0.080055845
1965	3	0.08006321
1966	3	0.080070577
1967	3	0.080077944
1968	3	0.080085313
1969	3	0.080092684
1970	3	0.080100055
1971	3	0.080107428
1972	3	0.080114802
1973	3	0.080122178
1974	3	0.080129555
1975	3	0.080136933
1976	3	0.080144312
1977	3	0.080151693
1978	3	0.080159075
1979	3	0.080166458
1980	3	0.080173843
1981	3	0.080181229
1982	3	0.080188616
1983	3	0.080196004
1984	3	0.080203393
1985	3	0.080210784
1986	3	0.080218176
1987	3	0.080225569
1988	3	0.080232964
1989	3	0.080240359
1990	3	0.080247756
1991	3	0.080255154
1992	3	0.080262553
1993	3	0.080269954
1994	3	0.080277355
1995	3	0.080284758
1996	3	0.080292162
1997	3	0.080299568
1998	3	0.080306974
1999	3	0.080314382
2000	3	0.080321791
2001	3	0.080329201
2002	3	0.080336612
2003	3	0.080344024
2004	3	0.080351438

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
2005	3	0.080358853
2006	3	0.080366269
2007	3	0.080373686
2008	3	0.080381105
2009	3	0.080388524
2010	3	0.080395945
2011	3	0.080403367
2012	3	0.08041079
2013	3	0.080418215
2014	3	0.08042564
2015	3	0.080433067
2016	3	0.080440495
2017	3	0.080447924
2018	3	0.080455354
2019	3	0.080462785
2020	3	0.080470218
2021	3	0.080477652
2022	3	0.080485087
2023	3	0.080492523

	AY	AZ
1		
2		
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4		
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17		
18		
19	x=MATCH(AH24,\$I\$3:\$I\$16)	x=INDEX(\$L\$3:\$L\$16,AY24)+(AH24-INDEX(\$I\$3:\$I\$16,AY24))*(INDEX(\$L\$3:\$L\$16,AY24+1)-INDEX(\$L\$3:\$L\$16,AY24))/(INDEX(\$I\$3:\$I\$16,AY24+1)-INDEX(\$I\$3:\$I\$16,AY24))
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
23	1	0.068221116
24	1	0.068221116
25	1	0.068221145
26	1	0.068221204
27	1	0.068221293
28	1	0.068221411
29	1	0.068221558
30	1	0.068221735
31	1	0.06822194
32	1	0.068222175
33	1	0.068222438
34	1	0.06822273
35	1	0.068223051
36	1	0.0682234

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
37	1	0.068223778
38	1	0.068224184
39	1	0.068224619
40	1	0.068225081
41	1	0.068225572
42	1	0.068226091
43	1	0.068226637
44	1	0.068227212
45	1	0.068227814
46	1	0.068228444
47	1	0.068229102
48	1	0.068229787
49	1	0.068230499
50	1	0.068231239
51	1	0.068232006
52	1	0.0682328
53	1	0.068233621
54	1	0.068234469
55	1	0.068235344
56	1	0.068236246
57	1	0.068237175
58	1	0.06823813
59	1	0.068239112
60	1	0.068240121
61	1	0.068241156
62	1	0.068242217
63	1	0.068243304
64	1	0.068244418
65	1	0.068245558
66	1	0.068246724
67	1	0.068247916
68	1	0.068249133
69	1	0.068250377
70	1	0.068251646
71	1	0.068252941
72	1	0.068254262
73	1	0.068255608
74	1	0.068256979
75	1	0.068258376
76	1	0.068259798
77	1	0.068261246

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
78	1	0.068262718
79	1	0.068264216
80	1	0.068265739
81	1	0.068267286
82	1	0.068268859
83	1	0.068270456
84	1	0.068272078
85	1	0.068273725
86	1	0.068275397
87	1	0.068277092
88	1	0.068278813
89	1	0.068280558
90	1	0.068282327
91	1	0.06828412
92	1	0.068285938
93	1	0.068287779
94	1	0.068289645
95	1	0.068291535
96	1	0.068293449
97	1	0.068295386
98	1	0.068297348
99	1	0.068299333
100	1	0.068301342
101	1	0.068303374
102	1	0.06830543
103	1	0.068307509
104	1	0.068309612
105	1	0.068311738
106	1	0.068313888
107	1	0.068316061
108	1	0.068318257
109	1	0.068320476
110	1	0.068322718
111	1	0.068324983
112	1	0.068327271
113	1	0.068329582
114	1	0.068331915
115	1	0.068334272
116	1	0.068336651
117	1	0.068339052
118	1	0.068341477

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
119	1	0.068343923
120	1	0.068346393
121	1	0.068348884
122	1	0.068351398
123	1	0.068353934
124	1	0.068356493
125	1	0.068359073
126	1	0.068361676
127	1	0.0683643
128	1	0.068366947
129	1	0.068369616
130	1	0.068372306
131	1	0.068375018
132	1	0.068377752
133	1	0.068380508
134	1	0.068383285
135	1	0.068386084
136	1	0.068388905
137	1	0.068391747
138	1	0.06839461
139	1	0.068397495
140	1	0.068400401
141	1	0.068403328
142	1	0.068406276
143	1	0.068409246
144	1	0.068412237
145	1	0.068415249
146	1	0.068418281
147	1	0.068421335
148	1	0.06842441
149	1	0.068427505
150	1	0.068430621
151	1	0.068433758
152	1	0.068436916
153	1	0.068440094
154	1	0.068443293
155	1	0.068446512
156	1	0.068449752
157	1	0.068453012
158	1	0.068456292
159	1	0.068459593

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
160	1	0.068462914
161	1	0.068466256
162	1	0.068469617
163	1	0.068472999
164	1	0.0684764
165	1	0.068479822
166	1	0.068483264
167	1	0.068486725
168	1	0.068490207
169	1	0.068493708
170	1	0.068497229
171	1	0.06850077
172	1	0.06850433
173	1	0.06850791
174	1	0.06851151
175	1	0.068515129
176	1	0.068518768
177	1	0.068522426
178	1	0.068526104
179	1	0.068529801
180	1	0.068533517
181	1	0.068537253
182	1	0.068541007
183	1	0.068544781
184	1	0.068548574
185	1	0.068552386
186	1	0.068556218
187	1	0.068560068
188	1	0.068563937
189	1	0.068567825
190	1	0.068571732
191	1	0.068575658
192	1	0.068579602
193	1	0.068583565
194	1	0.068587547
195	1	0.068591548
196	1	0.068595567
197	1	0.068599605
198	1	0.068603661
199	1	0.068607736
200	1	0.06861183

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
201	1	0.068615941
202	1	0.068620071
203	1	0.06862422
204	1	0.068628386
205	1	0.068632571
206	1	0.068636774
207	1	0.068640995
208	1	0.068645235
209	1	0.068649492
210	1	0.068653768
211	1	0.068658061
212	1	0.068662372
213	1	0.068666702
214	1	0.068671049
215	1	0.068675414
216	1	0.068679797
217	1	0.068684198
218	1	0.068688616
219	1	0.068693052
220	1	0.068697506
221	1	0.068701977
222	1	0.068706466
223	1	0.068710972
224	1	0.068715496
225	1	0.068720038
226	1	0.068724597
227	1	0.068729173
228	1	0.068733767
229	1	0.068738378
230	1	0.068743006
231	1	0.068747651
232	1	0.068752314
233	1	0.068756994
234	1	0.068761691
235	1	0.068766405
236	1	0.068771136
237	1	0.068775884
238	1	0.06878065
239	1	0.068785432
240	1	0.068790231
241	1	0.068795047

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
242	1	0.06879988
243	1	0.06880473
244	1	0.068809597
245	1	0.06881448
246	1	0.06881938
247	1	0.068824297
248	1	0.06882923
249	1	0.068834181
250	1	0.068839147
251	1	0.068844131
252	1	0.068849131
253	1	0.068854147
254	1	0.06885918
255	1	0.068864229
256	1	0.068869295
257	1	0.068874377
258	1	0.068879476
259	1	0.068884591
260	1	0.068889722
261	1	0.068894869
262	1	0.068900033
263	1	0.068905213
264	1	0.068910409
265	1	0.068915621
266	1	0.068920849
267	1	0.068926094
268	1	0.068931354
269	1	0.068936631
270	1	0.068941923
271	1	0.068947232
272	1	0.068952557
273	1	0.068957897
274	1	0.068963253
275	1	0.068968626
276	1	0.068974014
277	1	0.068979417
278	1	0.068984837
279	1	0.068990273
280	1	0.068995724
281	1	0.069001191
282	1	0.069006673

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
283	1	0.069012171
284	1	0.069017685
285	1	0.069023215
286	1	0.06902876
287	1	0.06903432
288	1	0.069039896
289	1	0.069045488
290	1	0.069051095
291	1	0.069056718
292	1	0.069062356
293	1	0.069068009
294	1	0.069073678
295	1	0.069079362
296	1	0.069085062
297	1	0.069090777
298	1	0.069096507
299	1	0.069102252
300	1	0.069108013
301	1	0.069113788
302	1	0.069119579
303	1	0.069125386
304	1	0.069131207
305	1	0.069137043
306	1	0.069142895
307	1	0.069148762
308	1	0.069154643
309	1	0.06916054
310	1	0.069166452
311	1	0.069172379
312	1	0.06917832
313	1	0.069184277
314	1	0.069190249
315	1	0.069196235
316	1	0.069202237
317	1	0.069208253
318	1	0.069214284
319	1	0.06922033
320	1	0.069226391
321	1	0.069232467
322	1	0.069238557
323	1	0.069244662

Attachment 1

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
324	1	0.069250782
325	1	0.069256916
326	1	0.069263065
327	1	0.069269229
328	1	0.069275408
329	1	0.069281601
330	1	0.069287809
331	1	0.069294031
332	1	0.069300268
333	1	0.06930652
334	1	0.069312786
335	1	0.069319066
336	1	0.069325361
337	1	0.069331671
338	1	0.069337995
339	1	0.069344333
340	1	0.069350686
341	1	0.069357053
342	1	0.069363435
343	1	0.069369831
344	1	0.069376241
345	1	0.069382666
346	1	0.069389105
347	1	0.069395559
348	1	0.069402026
349	1	0.069408508
350	1	0.069415004
351	1	0.069421515
352	1	0.069428039
353	1	0.069434578
354	1	0.069441131
355	1	0.069447699
356	1	0.06945428
357	1	0.069460876
358	1	0.069467485
359	1	0.069474109
360	1	0.069480747
361	1	0.069487399
362	1	0.069494065
363	1	0.069500745
364	1	0.069507439

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
365	1	0.069514147
366	1	0.069520869
367	1	0.069527605
368	1	0.069534355
369	1	0.069541119
370	1	0.069547897
371	1	0.069554689
372	1	0.069561495
373	1	0.069568315
374	1	0.069575149
375	1	0.069581996
376	1	0.069588857
377	1	0.069595733
378	1	0.069602622
379	1	0.069609525
380	1	0.069616441
381	1	0.069623372
382	1	0.069630316
383	1	0.069637274
384	1	0.069644246
385	1	0.069651231
386	1	0.06965823
387	1	0.069665243
388	1	0.06967227
389	1	0.06967931
390	1	0.069686364
391	1	0.069693431
392	1	0.069700513
393	1	0.069707607
394	1	0.069714716
395	1	0.069721838
396	1	0.069728974
397	1	0.069736123
398	1	0.069743286
399	1	0.069750462
400	1	0.069757652
401	1	0.069764855
402	1	0.069772072
403	1	0.069779303
404	1	0.069786546
405	1	0.069793804

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
406	1	0.069801075
407	1	0.069808359
408	1	0.069815657
409	1	0.069822968
410	1	0.069830292
411	1	0.06983763
412	1	0.069844982
413	1	0.069852347
414	1	0.069859725
415	1	0.069867116
416	1	0.069874521
417	1	0.069881939
418	1	0.06988937
419	1	0.069896815
420	1	0.069904273
421	1	0.069911745
422	1	0.069919229
423	1	0.069926727
424	1	0.069934238
425	1	0.069941763
426	1	0.0699493
427	1	0.069956851
428	1	0.069964415
429	1	0.069971992
430	1	0.069979583
431	1	0.069987186
432	1	0.069994803
433	1	0.070002433
434	1	0.070010076
435	1	0.070017732
436	1	0.070025401
437	1	0.070033083
438	1	0.070040779
439	1	0.070048487
440	1	0.070056209
441	1	0.070063943
442	1	0.070071691
443	1	0.070079451
444	1	0.070087225
445	1	0.070095012
446	1	0.070102812

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
447	1	0.070110624
448	1	0.07011845
449	1	0.070126289
450	1	0.07013414
451	1	0.070142005
452	1	0.070149882
453	1	0.070157773
454	1	0.070165676
455	1	0.070173592
456	1	0.070181521
457	1	0.070189463
458	1	0.070197418
459	1	0.070205386
460	1	0.070213366
461	1	0.07022136
462	1	0.070229366
463	1	0.070237385
464	1	0.070245417
465	1	0.070253461
466	1	0.070261519
467	1	0.070269589
468	1	0.070277672
469	1	0.070285767
470	1	0.070293876
471	1	0.070301997
472	1	0.070310131
473	1	0.070318277
474	1	0.070326437
475	1	0.070334609
476	1	0.070342793
477	1	0.070350991
478	1	0.070359201
479	1	0.070367423
480	1	0.070375658
481	1	0.070383906
482	1	0.070392167
483	1	0.07040044
484	1	0.070408725
485	1	0.070417023
486	1	0.070425334
487	1	0.070433658

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
488	1	0.070441993
489	1	0.070450342
490	1	0.070458703
491	1	0.070467076
492	1	0.070475462
493	1	0.070483861
494	1	0.070492272
495	1	0.070500695
496	1	0.070509131
497	1	0.070517579
498	1	0.07052604
499	1	0.070534513
500	1	0.070542999
501	1	0.070551497
502	1	0.070560007
503	1	0.07056853
504	1	0.070577065
505	1	0.070585613
506	1	0.070594172
507	1	0.070602745
508	1	0.070611329
509	1	0.070619926
510	1	0.070628535
511	1	0.070637157
512	1	0.070645791
513	1	0.070654437
514	1	0.070663095
515	1	0.070671765
516	1	0.070680448
517	1	0.070689143
518	1	0.070697851
519	1	0.07070657
520	1	0.070715302
521	1	0.070724046
522	1	0.070732802
523	1	0.07074157
524	1	0.07075035
525	1	0.070759143
526	1	0.070767948
527	1	0.070776764
528	1	0.070785593

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
529	1	0.070794434
530	1	0.070803288
531	1	0.070812153
532	1	0.07082103
533	1	0.070829919
534	1	0.070838821
535	1	0.070847734
536	1	0.07085666
537	1	0.070865597
538	1	0.070874547
539	1	0.070883508
540	1	0.070892482
541	1	0.070901467
542	1	0.070910465
543	1	0.070919474
544	1	0.070928495
545	1	0.070937529
546	1	0.070946574
547	1	0.070955631
548	1	0.0709647
549	1	0.070973781
550	1	0.070982874
551	1	0.070991978
552	1	0.071001095
553	1	0.071010223
554	1	0.071019363
555	1	0.071028515
556	1	0.071037679
557	1	0.071046855
558	1	0.071056042
559	1	0.071065241
560	1	0.071074452
561	1	0.071083675
562	1	0.071092909
563	1	0.071102156
564	1	0.071111414
565	1	0.071120683
566	1	0.071129965
567	1	0.071139258
568	1	0.071148562
569	1	0.071157879

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
570	1	0.071167207
571	1	0.071176547
572	1	0.071185898
573	1	0.071195261
574	1	0.071204636
575	1	0.071214022
576	1	0.07122342
577	1	0.071232829
578	1	0.07124225
579	1	0.071251682
580	1	0.071261126
581	1	0.071270582
582	1	0.071280049
583	1	0.071289528
584	1	0.071299018
585	1	0.07130852
586	1	0.071318033
587	1	0.071327557
588	1	0.071337094
589	1	0.071346641
590	1	0.0713562
591	1	0.07136577
592	1	0.071375352
593	1	0.071384946
594	1	0.07139455
595	1	0.071404166
596	1	0.071413794
597	1	0.071423432
598	1	0.071433083
599	1	0.071442744
600	1	0.071452417
601	1	0.071462101
602	1	0.071471796
603	1	0.071481503
604	1	0.071491221
605	1	0.07150095
606	1	0.071510691
607	1	0.071520443
608	1	0.071530206
609	1	0.07153998
610	1	0.071549766

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
611	1	0.071559562
612	1	0.07156937
613	1	0.071579189
614	1	0.07158902
615	1	0.071598861
616	1	0.071608714
617	1	0.071618578
618	1	0.071628452
619	1	0.071638338
620	1	0.071648236
621	1	0.071658144
622	1	0.071668063
623	1	0.071677994
624	1	0.071687935
625	1	0.071697888
626	1	0.071707851
627	1	0.071717826
628	1	0.071727811
629	1	0.071737808
630	1	0.071747816
631	1	0.071757834
632	1	0.071767864
633	1	0.071777905
634	1	0.071787956
635	1	0.071798019
636	1	0.071808092
637	1	0.071818176
638	1	0.071828272
639	1	0.071838378
640	1	0.071848495
641	1	0.071858623
642	1	0.071868762
643	1	0.071878912
644	1	0.071889072
645	1	0.071899243
646	1	0.071909426
647	1	0.071919619
648	1	0.071929822
649	1	0.071940037
650	1	0.071950263
651	1	0.071960499

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
652	1	0.071970746
653	1	0.071981003
654	1	0.071991272
655	1	0.072001551
656	1	0.072011841
657	1	0.072022141
658	1	0.072032453
659	1	0.072042775
660	1	0.072053107
661	1	0.072063451
662	1	0.072073805
663	1	0.072084169
664	1	0.072094544
665	1	0.07210493
666	1	0.072115327
667	1	0.072125734
668	2	0.07213416
669	2	0.07214016
670	2	0.072146167
671	2	0.072152181
672	2	0.0721582
673	2	0.072164227
674	2	0.072170259
675	2	0.072176299
676	2	0.072182344
677	2	0.072188396
678	2	0.072194454
679	2	0.072200519
680	2	0.07220659
681	2	0.072212668
682	2	0.072218752
683	2	0.072224842
684	2	0.072230939
685	2	0.072237042
686	2	0.072243151
687	2	0.072249267
688	2	0.072255389
689	2	0.072261518
690	2	0.072267652
691	2	0.072273793
692	2	0.072279941

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
693	2	0.072286095
694	2	0.072292255
695	2	0.072298421
696	2	0.072304594
697	2	0.072310773
698	2	0.072316958
699	2	0.07232315
700	2	0.072329347
701	2	0.072335552
702	2	0.072341762
703	2	0.072347979
704	2	0.072354202
705	2	0.072360431
706	2	0.072366666
707	2	0.072372908
708	2	0.072379156
709	2	0.07238541
710	2	0.07239167
711	2	0.072397937
712	2	0.07240421
713	2	0.072410489
714	2	0.072416774
715	2	0.072423065
716	2	0.072429363
717	2	0.072435667
718	2	0.072441977
719	2	0.072448293
720	2	0.072454615
721	2	0.072460944
722	2	0.072467279
723	2	0.072473619
724	2	0.072479966
725	2	0.07248632
726	2	0.072492679
727	2	0.072499044
728	2	0.072505416
729	2	0.072511794
730	2	0.072518177
731	2	0.072524567
732	2	0.072530963
733	2	0.072537365

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
734	2	0.072543774
735	2	0.072550188
736	2	0.072556608
737	2	0.072563035
738	2	0.072569467
739	2	0.072575906
740	2	0.072582351
741	2	0.072588801
742	2	0.072595258
743	2	0.072601721
744	2	0.07260819
745	2	0.072614665
746	2	0.072621146
747	2	0.072627633
748	2	0.072634126
749	2	0.072640625
750	2	0.07264713
751	2	0.072653641
752	2	0.072660158
753	2	0.072666681
754	2	0.07267321
755	2	0.072679745
756	2	0.072686286
757	2	0.072692833
758	2	0.072699386
759	2	0.072705945
760	2	0.072712509
761	2	0.07271908
762	2	0.072725657
763	2	0.07273224
764	2	0.072738828
765	2	0.072745423
766	2	0.072752023
767	2	0.07275863
768	2	0.072765242
769	2	0.07277186
770	2	0.072778484
771	2	0.072785114
772	2	0.07279175
773	2	0.072798392
774	2	0.07280504

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
775	2	0.072811693
776	2	0.072818353
777	2	0.072825018
778	2	0.072831689
779	2	0.072838366
780	2	0.072845049
781	2	0.072851738
782	2	0.072858433
783	2	0.072865133
784	2	0.072871839
785	2	0.072878551
786	2	0.072885269
787	2	0.072891993
788	2	0.072898722
789	2	0.072905458
790	2	0.072912199
791	2	0.072918946
792	2	0.072925698
793	2	0.072932457
794	2	0.072939221
795	2	0.072945991
796	2	0.072952767
797	2	0.072959548
798	2	0.072966336
799	2	0.072973129
800	2	0.072979928
801	2	0.072986732
802	2	0.072993542
803	2	0.073000358
804	2	0.07300718
805	2	0.073014008
806	2	0.073020841
807	2	0.07302768
808	2	0.073034524
809	2	0.073041374
810	2	0.07304823
811	2	0.073055092
812	2	0.073061959
813	2	0.073068832
814	2	0.073075711
815	2	0.073082596

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
816	2	0.073089486
817	2	0.073096381
818	2	0.073103283
819	2	0.07311019
820	2	0.073117102
821	2	0.073124021
822	2	0.073130944
823	2	0.073137874
824	2	0.073144809
825	2	0.07315175
826	2	0.073158696
827	2	0.073165648
828	2	0.073172606
829	2	0.073179569
830	2	0.073186538
831	2	0.073193512
832	2	0.073200492
833	2	0.073207477
834	2	0.073214469
835	2	0.073221465
836	2	0.073228467
837	2	0.073235475
838	2	0.073242488
839	2	0.073249507
840	2	0.073256532
841	2	0.073263562
842	2	0.073270597
843	2	0.073277638
844	2	0.073284684
845	2	0.073291736
846	2	0.073298794
847	2	0.073305857
848	2	0.073312925
849	2	0.073319999
850	2	0.073327079
851	2	0.073334164
852	2	0.073341254
853	2	0.07334835
854	2	0.073355452
855	2	0.073362558
856	2	0.073369671

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
857	2	0.073376788
858	2	0.073383912
859	2	0.07339104
860	2	0.073398174
861	2	0.073405314
862	2	0.073412459
863	2	0.073419609
864	2	0.073426765
865	2	0.073433926
866	2	0.073441092
867	2	0.073448264
868	2	0.073455442
869	2	0.073462625
870	2	0.073469813
871	2	0.073477006
872	2	0.073484205
873	2	0.073491409
874	2	0.073498619
875	2	0.073505834
876	2	0.073513054
877	2	0.07352028
878	2	0.073527511
879	2	0.073534747
880	2	0.073541989
881	2	0.073549236
882	2	0.073556489
883	2	0.073563746
884	2	0.073571009
885	2	0.073578277
886	2	0.073585551
887	2	0.07359283
888	2	0.073600114
889	2	0.073607404
890	2	0.073614698
891	2	0.073621998
892	2	0.073629304
893	2	0.073636614
894	2	0.07364393
895	2	0.073651251
896	2	0.073658578
897	2	0.073665909

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
898	2	0.073673246
899	2	0.073680588
900	2	0.073687936
901	2	0.073695288
902	2	0.073702646
903	2	0.073710009
904	2	0.073717377
905	2	0.07372475
906	2	0.073732129
907	2	0.073739513
908	2	0.073746902
909	2	0.073754296
910	2	0.073761695
911	2	0.0737691
912	2	0.07377651
913	2	0.073783925
914	2	0.073791345
915	2	0.07379877
916	2	0.0738062
917	2	0.073813636
918	2	0.073821076
919	2	0.073828522
920	2	0.073835973
921	2	0.073843429
922	2	0.07385089
923	2	0.073858357
924	2	0.073865828
925	2	0.073873305
926	2	0.073880786
927	2	0.073888273
928	2	0.073895765
929	2	0.073903262
930	2	0.073910764
931	2	0.073918271
932	2	0.073925783
933	2	0.0739333
934	2	0.073940822
935	2	0.07394835
936	2	0.073955882
937	2	0.07396342
938	2	0.073970962

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
939	2	0.07397851
940	2	0.073986062
941	2	0.07399362
942	2	0.074001182
943	2	0.07400875
944	2	0.074016323
945	2	0.0740239
946	2	0.074031483
947	2	0.074039071
948	2	0.074046663
949	2	0.074054261
950	2	0.074061863
951	2	0.074069471
952	2	0.074077084
953	2	0.074084701
954	2	0.074092324
955	2	0.074099951
956	2	0.074107584
957	2	0.074115221
958	2	0.074122863
959	2	0.074130511
960	2	0.074138163
961	2	0.07414582
962	2	0.074153482
963	2	0.074161149
964	2	0.074168821
965	2	0.074176498
966	2	0.074184179
967	2	0.074191866
968	2	0.074199558
969	2	0.074207254
970	2	0.074214955
971	2	0.074222661
972	2	0.074230373
973	2	0.074238088
974	2	0.074245809
975	2	0.074253535
976	2	0.074261265
977	2	0.074269001
978	2	0.074276741
979	2	0.074284486

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
980	2	0.074292236
981	2	0.074299991
982	2	0.07430775
983	2	0.074315515
984	2	0.074323284
985	2	0.074331058
986	2	0.074338837
987	2	0.07434662
988	2	0.074354409
989	2	0.074362202
990	2	0.07437
991	2	0.074377803
992	2	0.074385611
993	2	0.074393423
994	2	0.07440124
995	2	0.074409062
996	2	0.074416889
997	2	0.07442472
998	2	0.074432556
999	2	0.074440397
1000	2	0.074448243
1001	2	0.074456093
1002	2	0.074463949
1003	2	0.074471809
1004	2	0.074479673
1005	2	0.074487542
1006	2	0.074495416
1007	2	0.074503295
1008	2	0.074511179
1009	2	0.074519067
1010	2	0.07452696
1011	2	0.074534857
1012	2	0.074542759
1013	2	0.074550666
1014	2	0.074558578
1015	2	0.074566494
1016	2	0.074574415
1017	2	0.074582341
1018	2	0.074590271
1019	2	0.074598206
1020	2	0.074606145

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1021	2	0.07461409
1022	2	0.074622038
1023	2	0.074629992
1024	2	0.07463795
1025	2	0.074645913
1026	2	0.07465388
1027	2	0.074661852
1028	2	0.074669829
1029	2	0.07467781
1030	2	0.074685796
1031	2	0.074693786
1032	2	0.074701781
1033	2	0.07470978
1034	2	0.074717785
1035	2	0.074725793
1036	2	0.074733807
1037	2	0.074741824
1038	2	0.074749847
1039	2	0.074757874
1040	2	0.074765905
1041	2	0.074773941
1042	2	0.074781982
1043	2	0.074790027
1044	2	0.074798077
1045	2	0.074806131
1046	2	0.07481419
1047	2	0.074822253
1048	2	0.074830321
1049	2	0.074838393
1050	2	0.07484647
1051	2	0.074854551
1052	2	0.074862637
1053	2	0.074870727
1054	2	0.074878822
1055	2	0.074886922
1056	2	0.074895025
1057	2	0.074903134
1058	2	0.074911246
1059	2	0.074919363
1060	2	0.074927485
1061	2	0.074935611

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1062	2	0.074943742
1063	2	0.074951877
1064	2	0.074960016
1065	2	0.07496816
1066	2	0.074976308
1067	2	0.074984461
1068	2	0.074992618
1069	2	0.07500078
1070	2	0.075008946
1071	2	0.075017116
1072	2	0.075025291
1073	2	0.07503347
1074	2	0.075041654
1075	2	0.075049842
1076	2	0.075058034
1077	2	0.075066231
1078	2	0.075074432
1079	2	0.075082638
1080	2	0.075090847
1081	2	0.075099062
1082	2	0.07510728
1083	2	0.075115503
1084	2	0.075123731
1085	2	0.075131962
1086	2	0.075140198
1087	2	0.075148439
1088	2	0.075156683
1089	2	0.075164932
1090	2	0.075173186
1091	2	0.075181443
1092	2	0.075189705
1093	2	0.075197972
1094	2	0.075206242
1095	2	0.075214517
1096	2	0.075222796
1097	2	0.07523108
1098	2	0.075239367
1099	2	0.075247659
1100	2	0.075255956
1101	2	0.075264256
1102	2	0.075272561

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1103	2	0.07528087
1104	2	0.075289184
1105	2	0.075297501
1106	2	0.075305823
1107	2	0.075314149
1108	2	0.07532248
1109	2	0.075330814
1110	2	0.075339153
1111	2	0.075347496
1112	2	0.075355844
1113	2	0.075364195
1114	2	0.075372551
1115	2	0.075380911
1116	2	0.075389275
1117	2	0.075397643
1118	2	0.075406016
1119	2	0.075414393
1120	2	0.075422774
1121	2	0.075431159
1122	2	0.075439548
1123	2	0.075447942
1124	2	0.075456339
1125	2	0.075464741
1126	2	0.075473147
1127	2	0.075481557
1128	2	0.075489972
1129	2	0.07549839
1130	2	0.075506813
1131	2	0.075515239
1132	2	0.07552367
1133	2	0.075532105
1134	2	0.075540544
1135	2	0.075548988
1136	2	0.075557435
1137	2	0.075565886
1138	2	0.075574342
1139	2	0.075582802
1140	2	0.075591266
1141	2	0.075599733
1142	2	0.075608205
1143	2	0.075616681

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1144	2	0.075625162
1145	2	0.075633646
1146	2	0.075642134
1147	2	0.075650627
1148	2	0.075659123
1149	2	0.075667623
1150	2	0.075676128
1151	2	0.075684637
1152	2	0.075693149
1153	2	0.075701666
1154	2	0.075710187
1155	2	0.075718711
1156	2	0.07572724
1157	2	0.075735773
1158	2	0.07574431
1159	2	0.075752851
1160	2	0.075761396
1161	2	0.075769945
1162	2	0.075778497
1163	2	0.075787054
1164	2	0.075795615
1165	2	0.07580418
1166	2	0.075812749
1167	2	0.075821322
1168	2	0.075829899
1169	2	0.075838479
1170	2	0.075847064
1171	2	0.075855653
1172	2	0.075864246
1173	2	0.075872842
1174	2	0.075881443
1175	2	0.075890047
1176	2	0.075898656
1177	2	0.075907268
1178	2	0.075915885
1179	2	0.075924505
1180	2	0.075933129
1181	2	0.075941757
1182	2	0.075950389
1183	2	0.075959025
1184	2	0.075967665

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1185	2	0.075976309
1186	2	0.075984957
1187	2	0.075993608
1188	2	0.076002264
1189	2	0.076010923
1190	2	0.076019586
1191	2	0.076028253
1192	2	0.076036924
1193	2	0.076045599
1194	2	0.076054278
1195	2	0.076062961
1196	2	0.076071647
1197	2	0.076080337
1198	2	0.076089031
1199	2	0.076097729
1200	2	0.076106431
1201	2	0.076115137
1202	2	0.076123846
1203	2	0.07613256
1204	2	0.076141277
1205	2	0.076149998
1206	2	0.076158723
1207	2	0.076167451
1208	2	0.076176184
1209	2	0.07618492
1210	2	0.07619366
1211	2	0.076202404
1212	2	0.076211151
1213	2	0.076219903
1214	2	0.076228658
1215	2	0.076237417
1216	2	0.07624618
1217	2	0.076254946
1218	2	0.076263716
1219	2	0.07627249
1220	2	0.076281268
1221	2	0.07629005
1222	2	0.076298835
1223	2	0.076307624
1224	2	0.076316417
1225	2	0.076325213

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1226	2	0.076334013
1227	2	0.076342817
1228	2	0.076351625
1229	2	0.076360437
1230	2	0.076369253
1231	2	0.076378074
1232	2	0.0763869
1233	2	0.07639573
1234	2	0.076404565
1235	2	0.076413406
1236	2	0.076422251
1237	2	0.076431101
1238	2	0.076439957
1239	2	0.076448817
1240	2	0.076457683
1241	2	0.076466553
1242	2	0.076475429
1243	2	0.076484309
1244	2	0.076493195
1245	2	0.076502086
1246	2	0.076510981
1247	2	0.076519882
1248	2	0.076528788
1249	2	0.076537699
1250	2	0.076546614
1251	2	0.076555535
1252	2	0.076564461
1253	2	0.076573391
1254	2	0.076582327
1255	2	0.076591268
1256	2	0.076600213
1257	2	0.076609164
1258	2	0.07661812
1259	2	0.07662708
1260	2	0.076636046
1261	2	0.076645016
1262	2	0.076653991
1263	2	0.076662972
1264	2	0.076671957
1265	2	0.076680947
1266	2	0.076689942

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1267	2	0.076698942
1268	2	0.076707947
1269	2	0.076716957
1270	2	0.076725971
1271	2	0.076734991
1272	2	0.076744015
1273	2	0.076753045
1274	2	0.076762079
1275	2	0.076771118
1276	2	0.076780162
1277	2	0.076789211
1278	2	0.076798264
1279	2	0.076807323
1280	2	0.076816386
1281	2	0.076825454
1282	2	0.076834527
1283	2	0.076843605
1284	2	0.076852688
1285	2	0.076861775
1286	2	0.076870868
1287	2	0.076879965
1288	2	0.076889066
1289	2	0.076898173
1290	2	0.076907285
1291	2	0.076916401
1292	2	0.076925522
1293	2	0.076934648
1294	2	0.076943778
1295	2	0.076952913
1296	2	0.076962054
1297	2	0.076971198
1298	2	0.076980348
1299	2	0.076989502
1300	2	0.076998661
1301	2	0.077007825
1302	2	0.077016994
1303	2	0.077026167
1304	2	0.077035345
1305	2	0.077044527
1306	2	0.077053715
1307	2	0.077062907

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1308	2	0.077072103
1309	2	0.077081305
1310	2	0.077090511
1311	2	0.077099722
1312	2	0.077108937
1313	2	0.077118157
1314	2	0.077127382
1315	2	0.077136612
1316	2	0.077145846
1317	2	0.077155084
1318	2	0.077164328
1319	2	0.077173576
1320	2	0.077182828
1321	2	0.077192086
1322	2	0.077201348
1323	2	0.077210614
1324	2	0.077219885
1325	2	0.077229161
1326	2	0.077238441
1327	2	0.077247726
1328	2	0.077257016
1329	2	0.07726631
1330	2	0.077275608
1331	2	0.077284912
1332	2	0.077294219
1333	2	0.077303532
1334	2	0.077312849
1335	2	0.07732217
1336	2	0.077331496
1337	2	0.077340827
1338	2	0.077350162
1339	2	0.077359501
1340	2	0.077368846
1341	2	0.077378194
1342	2	0.077387547
1343	2	0.077396905
1344	2	0.077406267
1345	2	0.077415634
1346	2	0.077425005
1347	2	0.077434381
1348	2	0.077443761

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1349	2	0.077453146
1350	2	0.077462535
1351	2	0.077471929
1352	2	0.077481327
1353	2	0.077490729
1354	2	0.077500136
1355	2	0.077509548
1356	2	0.077518963
1357	2	0.077528384
1358	2	0.077537809
1359	2	0.077547238
1360	2	0.077556671
1361	2	0.077566109
1362	2	0.077575552
1363	2	0.077584999
1364	2	0.07759445
1365	2	0.077603906
1366	2	0.077613366
1367	2	0.07762283
1368	2	0.077632299
1369	2	0.077641772
1370	2	0.07765125
1371	2	0.077660732
1372	2	0.077670218
1373	2	0.077679709
1374	2	0.077689204
1375	2	0.077698703
1376	2	0.077708207
1377	2	0.077717715
1378	2	0.077727228
1379	2	0.077736744
1380	2	0.077746265
1381	2	0.077755791
1382	2	0.07776532
1383	2	0.077774854
1384	2	0.077784393
1385	2	0.077793935
1386	2	0.077803482
1387	2	0.077813034
1388	2	0.077822589
1389	2	0.077832149

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1390	2	0.077841713
1391	2	0.077851281
1392	2	0.077860854
1393	2	0.077870431
1394	2	0.077880012
1395	2	0.077889597
1396	2	0.077899187
1397	2	0.077908781
1398	2	0.077918379
1399	2	0.077927981
1400	2	0.077937587
1401	2	0.077947198
1402	2	0.077956813
1403	2	0.077966432
1404	2	0.077976056
1405	2	0.077985683
1406	2	0.077995315
1407	2	0.078004951
1408	2	0.078014591
1409	2	0.078024236
1410	2	0.078033884
1411	2	0.078043537
1412	2	0.078053194
1413	2	0.078062855
1414	2	0.07807252
1415	2	0.078082189
1416	2	0.078091863
1417	2	0.078101541
1418	2	0.078111222
1419	2	0.078120908
1420	2	0.078130598
1421	2	0.078140293
1422	2	0.078149991
1423	2	0.078159693
1424	2	0.0781694
1425	2	0.07817911
1426	2	0.078188825
1427	2	0.078198544
1428	2	0.078208267
1429	2	0.078217994
1430	2	0.078227725

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1431	2	0.07823746
1432	2	0.0782472
1433	2	0.078256943
1434	2	0.07826669
1435	2	0.078276442
1436	2	0.078286197
1437	2	0.078295957
1438	2	0.07830572
1439	2	0.078315488
1440	2	0.07832526
1441	2	0.078335035
1442	2	0.078344815
1443	2	0.078354599
1444	2	0.078364386
1445	2	0.078374178
1446	2	0.078383974
1447	2	0.078393774
1448	2	0.078403578
1449	2	0.078413385
1450	2	0.078423197
1451	2	0.078433013
1452	2	0.078442833
1453	2	0.078452656
1454	2	0.078462484
1455	2	0.078472316
1456	2	0.078482151
1457	2	0.078491991
1458	2	0.078501834
1459	2	0.078511682
1460	2	0.078521533
1461	2	0.078531388
1462	2	0.078541248
1463	2	0.078551111
1464	2	0.078560978
1465	2	0.078570849
1466	2	0.078580724
1467	2	0.078590603
1468	2	0.078600485
1469	2	0.078610372
1470	2	0.078620263
1471	2	0.078630157

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1472	2	0.078640055
1473	2	0.078649958
1474	2	0.078659864
1475	2	0.078669774
1476	2	0.078679687
1477	2	0.078689605
1478	2	0.078699527
1479	2	0.078709452
1480	2	0.078719381
1481	2	0.078729314
1482	2	0.078739251
1483	2	0.078749192
1484	2	0.078759137
1485	2	0.078769085
1486	2	0.078779037
1487	2	0.078788993
1488	2	0.078798953
1489	2	0.078808917
1490	2	0.078818885
1491	2	0.078828856
1492	2	0.078838831
1493	2	0.07884881
1494	2	0.078858793
1495	2	0.078868779
1496	2	0.078878769
1497	2	0.078888763
1498	2	0.078898761
1499	2	0.078908763
1500	2	0.078918768
1501	2	0.078928777
1502	2	0.07893879
1503	2	0.078948806
1504	2	0.078958827
1505	2	0.078968851
1506	2	0.078978878
1507	2	0.078988891
1508	2	0.078998945
1509	2	0.079008984
1510	2	0.079019027
1511	2	0.079029073
1512	2	0.079039123

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1513	2	0.079049177
1514	3	0.079058997
1515	3	0.079067139
1516	3	0.079075284
1517	3	0.079083431
1518	3	0.079091582
1519	3	0.079099737
1520	3	0.079107894
1521	3	0.079116054
1522	3	0.079124218
1523	3	0.079132385
1524	3	0.079140555
1525	3	0.079148728
1526	3	0.079156904
1527	3	0.079165084
1528	3	0.079173267
1529	3	0.079181452
1530	3	0.079189641
1531	3	0.079197833
1532	3	0.079206028
1533	3	0.079214226
1534	3	0.079222428
1535	3	0.079230632
1536	3	0.07923884
1537	3	0.079247051
1538	3	0.079255264
1539	3	0.079263481
1540	3	0.079271701
1541	3	0.079279924
1542	3	0.07928815
1543	3	0.07929638
1544	3	0.079304612
1545	3	0.079312848
1546	3	0.079321086
1547	3	0.079329328
1548	3	0.079337572
1549	3	0.07934582
1550	3	0.079354071
1551	3	0.079362325
1552	3	0.079370582
1553	3	0.079378842

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1554	3	0.079387105
1555	3	0.079395371
1556	3	0.07940364
1557	3	0.079411912
1558	3	0.079420187
1559	3	0.079428465
1560	3	0.079436746
1561	3	0.079445031
1562	3	0.079453318
1563	3	0.079461608
1564	3	0.079469902
1565	3	0.079478198
1566	3	0.079486497
1567	3	0.0794948
1568	3	0.079503105
1569	3	0.079511413
1570	3	0.079519725
1571	3	0.079528039
1572	3	0.079536356
1573	3	0.079544677
1574	3	0.079553
1575	3	0.079561326
1576	3	0.079569655
1577	3	0.079577988
1578	3	0.079586323
1579	3	0.079594661
1580	3	0.079603002
1581	3	0.079611346
1582	3	0.079619693
1583	3	0.079628043
1584	3	0.079636396
1585	3	0.079644752
1586	3	0.079653111
1587	3	0.079661472
1588	3	0.079669837
1589	3	0.079678205
1590	3	0.079686575
1591	3	0.079694949
1592	3	0.079703325
1593	3	0.079711704
1594	3	0.079720086

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1595	3	0.079728472
1596	3	0.07973686
1597	3	0.07974525
1598	3	0.079753644
1599	3	0.079762041
1600	3	0.079770441
1601	3	0.079778843
1602	3	0.079787249
1603	3	0.079795657
1604	3	0.079804068
1605	3	0.079812482
1606	3	0.079820899
1607	3	0.079829319
1608	3	0.079837741
1609	3	0.079846167
1610	3	0.079854595
1611	3	0.079863026
1612	3	0.079871461
1613	3	0.079879898
1614	3	0.079888337
1615	3	0.07989678
1616	3	0.079905225
1617	3	0.079913674
1618	3	0.079922125
1619	3	0.079930579
1620	3	0.079939036
1621	3	0.079947495
1622	3	0.079955958
1623	3	0.079964423
1624	3	0.079972891
1625	3	0.079981362
1626	3	0.079989836
1627	3	0.079998312
1628	3	0.080006792
1629	3	0.080015274
1630	3	0.080023759
1631	3	0.080032246
1632	3	0.080040737
1633	3	0.08004923
1634	3	0.080057726
1635	3	0.080066225

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1636	3	0.080074727
1637	3	0.080083231
1638	3	0.080091738
1639	3	0.080100248
1640	3	0.080108761
1641	3	0.080117276
1642	3	0.080125795
1643	3	0.080134316
1644	3	0.080142839
1645	3	0.080151366
1646	3	0.080159895
1647	3	0.080168427
1648	3	0.080176962
1649	3	0.080185499
1650	3	0.080194039
1651	3	0.080202582
1652	3	0.080211128
1653	3	0.080219676
1654	3	0.080228227
1655	3	0.080236781
1656	3	0.080245337
1657	3	0.080253897
1658	3	0.080262459
1659	3	0.080271023
1660	3	0.080279591
1661	3	0.080288161
1662	3	0.080296733
1663	3	0.080305309
1664	3	0.080313887
1665	3	0.080322468
1666	3	0.080331051
1667	3	0.080339637
1668	3	0.080348226
1669	3	0.080356817
1670	3	0.080365412
1671	3	0.080374008
1672	3	0.080382608
1673	3	0.08039121
1674	3	0.080399815
1675	3	0.080408422
1676	3	0.080417032

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1677	3	0.080425645
1678	3	0.080434261
1679	3	0.080442879
1680	3	0.080451499
1681	3	0.080460123
1682	3	0.080468749
1683	3	0.080477377
1684	3	0.080486008
1685	3	0.080494642
1686	3	0.080503279
1687	3	0.080511918
1688	3	0.080520559
1689	3	0.080529204
1690	3	0.080537851
1691	3	0.0805465
1692	3	0.080555152
1693	3	0.080563807
1694	3	0.080572464
1695	3	0.080581124
1696	3	0.080589787
1697	3	0.080598452
1698	3	0.080607119
1699	3	0.08061579
1700	3	0.080624462
1701	3	0.080633138
1702	3	0.080641816
1703	3	0.080650496
1704	3	0.080659179
1705	3	0.080667865
1706	3	0.080676553
1707	3	0.080685244
1708	3	0.080693937
1709	3	0.080702633
1710	3	0.080711332
1711	3	0.080720033
1712	3	0.080728736
1713	3	0.080737442
1714	3	0.080746151
1715	3	0.080754862
1716	3	0.080763576
1717	3	0.080772292

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1718	3	0.08078101
1719	3	0.080789732
1720	3	0.080798455
1721	3	0.080807182
1722	3	0.08081591
1723	3	0.080824642
1724	3	0.080833375
1725	3	0.080842112
1726	3	0.080850851
1727	3	0.080859592
1728	3	0.080868336
1729	3	0.080877082
1730	3	0.080885831
1731	3	0.080894582
1732	3	0.080903336
1733	3	0.080912092
1734	3	0.080920851
1735	3	0.080929612
1736	3	0.080938375
1737	3	0.080947141
1738	3	0.08095591
1739	3	0.080964681
1740	3	0.080973455
1741	3	0.080982231
1742	3	0.080991009
1743	3	0.08099979
1744	3	0.081008573
1745	3	0.081017359
1746	3	0.081026147
1747	3	0.081034938
1748	3	0.081043731
1749	3	0.081052526
1750	3	0.081061324
1751	3	0.081070125
1752	3	0.081078927
1753	3	0.081087733
1754	3	0.08109654
1755	3	0.08110535
1756	3	0.081114163
1757	3	0.081122978
1758	3	0.081131795

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1759	3	0.081140614
1760	3	0.081149437
1761	3	0.081158261
1762	3	0.081167088
1763	3	0.081175917
1764	3	0.081184749
1765	3	0.081193583
1766	3	0.081202419
1767	3	0.081211258
1768	3	0.081220099
1769	3	0.081228943
1770	3	0.081237789
1771	3	0.081246637
1772	3	0.081255488
1773	3	0.081264341
1774	3	0.081273196
1775	3	0.081282054
1776	3	0.081290914
1777	3	0.081299777
1778	3	0.081308642
1779	3	0.081317509
1780	3	0.081326379
1781	3	0.08133525
1782	3	0.081344125
1783	3	0.081353001
1784	3	0.08136188
1785	3	0.081370761
1786	3	0.081379645
1787	3	0.081388531
1788	3	0.081397419
1789	3	0.08140631
1790	3	0.081415202
1791	3	0.081424098
1792	3	0.081432995
1793	3	0.081441895
1794	3	0.081450797
1795	3	0.081459701
1796	3	0.081468608
1797	3	0.081477517
1798	3	0.081486428
1799	3	0.081495342

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1800	3	0.081504258
1801	3	0.081513176
1802	3	0.081522097
1803	3	0.081531019
1804	3	0.081539944
1805	3	0.081548872
1806	3	0.081557801
1807	3	0.081566733
1808	3	0.081575667
1809	3	0.081584604
1810	3	0.081593542
1811	3	0.081602483
1812	3	0.081611426
1813	3	0.081620372
1814	3	0.081629319
1815	3	0.081638268
1816	3	0.081647219
1817	3	0.081656172
1818	3	0.081665126
1819	3	0.081674081
1820	3	0.081683038
1821	3	0.081691997
1822	3	0.081700957
1823	3	0.081709918
1824	3	0.08171888
1825	3	0.081727844
1826	3	0.081736809
1827	3	0.081745775
1828	3	0.081754742
1829	3	0.081763711
1830	3	0.081772681
1831	3	0.081781652
1832	3	0.081790625
1833	3	0.081799598
1834	3	0.081808573
1835	3	0.081817549
1836	3	0.081826526
1837	3	0.081835504
1838	3	0.081844483
1839	3	0.081853464
1840	3	0.081862445

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1841	3	0.081871428
1842	3	0.081880411
1843	3	0.081889396
1844	3	0.081898382
1845	3	0.081907369
1846	3	0.081916357
1847	3	0.081925345
1848	3	0.081934335
1849	3	0.081943326
1850	3	0.081952318
1851	3	0.081961311
1852	3	0.081970305
1853	3	0.0819793
1854	3	0.081988295
1855	3	0.081997292
1856	3	0.08200629
1857	3	0.082015288
1858	3	0.082024288
1859	3	0.082033288
1860	3	0.082042289
1861	3	0.082051291
1862	3	0.082060294
1863	3	0.082069298
1864	3	0.082078302
1865	3	0.082087308
1866	3	0.082096314
1867	3	0.082105321
1868	3	0.082114329
1869	3	0.082123337
1870	3	0.082132347
1871	3	0.082141357
1872	3	0.082150368
1873	3	0.082159379
1874	3	0.082168392
1875	3	0.082177405
1876	3	0.082186418
1877	3	0.082195433
1878	3	0.082204448
1879	3	0.082213464
1880	3	0.082222481
1881	3	0.082231498

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1882	3	0.082240516
1883	3	0.082249535
1884	3	0.082258555
1885	3	0.082267575
1886	3	0.082276596
1887	3	0.082285617
1888	3	0.082294639
1889	3	0.082303662
1890	3	0.082312686
1891	3	0.08232171
1892	3	0.082330735
1893	3	0.082339761
1894	3	0.082348787
1895	3	0.082357814
1896	3	0.082366841
1897	3	0.082375869
1898	3	0.082384898
1899	3	0.082393928
1900	3	0.082402958
1901	3	0.082411989
1902	3	0.08242102
1903	3	0.082430052
1904	3	0.082439085
1905	3	0.082448118
1906	3	0.082457152
1907	3	0.082466186
1908	3	0.082475221
1909	3	0.082484257
1910	3	0.082493293
1911	3	0.08250233
1912	3	0.082511368
1913	3	0.082520406
1914	3	0.082529445
1915	3	0.082538484
1916	3	0.082547524
1917	3	0.082556564
1918	3	0.082565605
1919	3	0.082574647
1920	3	0.082583689
1921	3	0.082592732
1922	3	0.082601775

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1923	3	0.082610819
1924	3	0.082619863
1925	3	0.082628908
1926	3	0.082637954
1927	3	0.082647
1928	3	0.082656046
1929	3	0.082665093
1930	3	0.082674141
1931	3	0.082683189
1932	3	0.082692238
1933	3	0.082701287
1934	3	0.082710336
1935	3	0.082719387
1936	3	0.082728437
1937	3	0.082737488
1938	3	0.082746539
1939	3	0.082755591
1940	3	0.082764644
1941	3	0.082773696
1942	3	0.082782749
1943	3	0.082791803
1944	3	0.082800856
1945	3	0.082809911
1946	3	0.082818965
1947	3	0.08282802
1948	3	0.082837075
1949	3	0.082846131
1950	3	0.082855186
1951	3	0.082864243
1952	3	0.082873299
1953	3	0.082882356
1954	3	0.082891412
1955	3	0.08290047
1956	3	0.082909527
1957	3	0.082918585
1958	3	0.082927643
1959	3	0.082936701
1960	3	0.082945759
1961	3	0.082954817
1962	3	0.082963876
1963	3	0.082972935

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1964	3	0.082981994
1965	3	0.082991053
1966	3	0.083000112
1967	3	0.083009172
1968	3	0.083018231
1969	3	0.083027291
1970	3	0.083036351
1971	3	0.083045411
1972	3	0.083054471
1973	3	0.083063531
1974	3	0.083072591
1975	3	0.083081651
1976	3	0.083090711
1977	3	0.083099771
1978	3	0.083108831
1979	3	0.083117892
1980	3	0.083126952
1981	3	0.083136012
1982	3	0.083145073
1983	3	0.083154133
1984	3	0.083163193
1985	3	0.083172253
1986	3	0.083181313
1987	3	0.083190373
1988	3	0.083199433
1989	3	0.083208493
1990	3	0.083217553
1991	3	0.083226613
1992	3	0.083235673
1993	3	0.083244733
1994	3	0.083253793
1995	3	0.083262852
1996	3	0.083271912
1997	3	0.083280971
1998	3	0.083290031
1999	3	0.08329909
2000	3	0.083308149
2001	3	0.083317209
2002	3	0.083326268
2003	3	0.083335327
2004	3	0.083344386

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
2005	3	0.083353445
2006	3	0.083362504
2007	3	0.083371563
2008	3	0.083380621
2009	3	0.08338968
2010	3	0.083398738
2011	3	0.083407797
2012	3	0.083416855
2013	3	0.083425914
2014	3	0.083434972
2015	3	0.08344403
2016	3	0.083453088
2017	3	0.083462146
2018	3	0.083471204
2019	3	0.083480261
2020	3	0.083489319
2021	3	0.083498377
2022	3	0.083507434
2023	3	0.083516492

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Inconel material data sheet


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INCONEL® alloy X-750 (UNS N07750/W. Nr. 2.4669) is a precipitation-hardenable nickel-chromium alloy used for its corrosion and oxidation resistance and high strength at temperatures to 1300°F. Although much of the effect of precipitation hardening is lost with increasing temperature over 1300°F, heat-treated material has useful strength up to 1800°F. Alloy X-750 also has excellent properties down to cryogenic temperatures. Composition is shown in Table 1.

The economics of INCONEL alloy X-750 coupled with its availability in all standard mill forms has resulted in applications in a wide variety of industrial fields. In gas turbines, it is used for rotor blades and wheels, bolts, and other structural members. INCONEL alloy X-750 is used extensively in rocket-engine thrust chambers. Airframe applications include thrust reversers and hot-air ducting systems. Large pressure vessels are formed from INCONEL alloy X-750. Other applications are heat-treating fixtures, forming tools, extrusion dies, and test machine grips. For springs and fasteners, INCONEL alloy X-750 is used from sub-zero to 1200°F.

Depending on the application and the properties desired, various heat treatments are employed. For service above 1100°F, particularly where loads are to be sustained for long times, optimum properties are achieved by solution treating (2100°F) plus stabilization treating (1550°F) plus precipitation treating (1300°F). For service below 1100°F, the alloy may be strengthened by precipitation treating after hot or cold working or by precipitation treating after equalizing or solution treating. A furnace-cooling treatment is also used to develop optimum properties for some applications.

The various heat treatments and the properties developed are described under the section on Mechanical Properties.

Property values in this bulletin – the results of extensive testing – are typical of the alloy but, unless shown as limiting, should not be used as specification values.

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Table 1 - Limiting Chemical Composition, %

Nickel (plus Cobalt).....	70.00 min.
Chromium.....	14.0-17.0
Iron.....	5.0-9.0
Titanium.....	2.25-2.75
Aluminum.....	0.40-1.00
Niobium (plus Tantalum).....	0.70-1.20
Manganese.....	1.00 max.
Silicon.....	0.50 max.
Sulfur.....	0.01 max.
Copper.....	0.50 max.
Carbon.....	0.08 max.
Cobalt ¹	1.00 max

¹Determination not required for routine acceptance.

Physical Constants and Thermal Properties

Some physical constants and thermal properties of INCONEL alloy X-750 are given in Tables 2 and 3.

Values for thermal expansion, thermal conductivity, specific heat, and diffusivity are from Lucks and Deem and electrical resistivity from tests conducted at Lehigh University.

Effects of temperature on modulus of elasticity and additional data on resistivity are in Tables 4 and 5. More modulus values can be found in the section on Mechanical Properties.

Table 2 – Physical Constants

Density, lb/in ³	0.299
g/cm ³	8.28
Melting Range, °F.....	2540-2600
°C.....	1393-1427
Curie Temperature, °F	
As hot-rolled.....	-225
Triple-heat-treated (2100°F/2 hr, A.C., +1500°F/24 hr, A.C., + 1300°F/20 hr, A.C.).....	-193
Magnetic Permeability, 70°F, 200H	
As Hot-Rolled.....	1.0020
Triple-heat-treated (2100°F/2 hr, A.C., +1500°F/24 hr, A.C., + 1300°F/20 hr, A.C.).....	1.0035
Emissivity, oxidized surface	
600°F.....	0.895
2000°F.....	0.925
Linear Contraction during Precipitation Treatment (1300°F/20 hr), in/in	
Hot-Rolled.....	0.00044
20% Cold-Rolled.....	0.00052
Annealed.....	0.00026

INCONEL® alloy X-750



INCONEL® alloy X-750

Table 3 - Thermal Properties^a

Temperature, °F	Mean Linear Expansion, In./In./°F x 10 ⁻⁴ from 70° F to Temperature Shown	Thermal Conductivity, Btu/in./hr/sq ft/°F	Specific Heat Btu/lb/°F	Diffusivity, sq ft/hr	Electrical Resistivity, ohm/circ mil/ft
-250	6.5	67	0.073	0.150	–
-200	6.6	70	0.080	0.143	–
-100	6.7	74	0.090	0.135	–
70	–	83	0.103	0.132	731
200	7.0	89	0.109	0.133	739
400	7.2	98	0.116	0.140	746
600	7.5	109	0.120	0.148	761
800	7.8	120	0.125	0.158	771
1000	8.1	131	0.130	0.169	783
1200	8.4	143	0.137	0.173	786
1400	8.8	154	0.151	0.172	775
1600	9.3	164	0.171	0.164	761
1800	9.8	–	–	–	–

^aMaterial heat-treated 2100°F/3 hr, A.C., + 1550°F/24 hr, A.C., + 1300°F/20 hr, A.C.

Table 4 - Effect of Heat Treatment on Room-Temperature Resistivity of Hot-Rolled Bar

Heat Treatment	Resistivity, ohm/circ mil/ft
As hot-rolled	759
2000°F/1 hr, A.C.	763
2100°F/1 hr, A.C.+1500°F/24 hr, A.C.+ 1300°F/20 hr, A.C.	724
1800°F/1 hr, A.C.+1350°F/8 hr,F.C. to 1150°F, hold at 1150°F for total time of 16 hr, A.C.	739

Table 5 - Modulus of Elasticity

Temperature, °F	Modulus of Elasticity, 10 ³ ksi		
	Tension		Torsion
	Static	Dynamic	Static
80 ^b	31.0	31.0	11.0
500	28.7	29.1	10.2
1000	25.0	26.7	9.0
1200	23.0	25.5	8.1
1350	21.0	24.4	–
1500	18.5	23.2	–
1600	–	22.1	–
1800	–	20.0	–

^bPoisson's ratio = 0.29

Mechanical Properties

INCONEL alloy X-750 may be given any one of a variety of heat treatments. Each develops special properties and puts the product form in the best condition for its intended application. In all conditions, alloy X-750 is resistant to oxidation up to 1800°F. The most often used heat treatments have been incorporated by the Society of Automotive Engineers in their AMS specifications^a for various product forms. The heat treatments, specifications, and product forms are summarized in Table 6.

^aAMS specifications are subject to revision. The ones referenced in this publication were current when it was released. Publisher is the Society of Automotive Engineers, Inc.

Email Transmittal of Attachment 4

From: [Matt Wilkinson](#)
To: [Dwayne Blaylock](#); [Andrew Rabaioli-Brosius](#); [Brian Froese](#); [Guy Spikes](#)
Cc: [Joanne Morris](#)
Subject: FW: transfer of DIT 4
Date: Monday, September 16, 2019 10:13:41 AM
Attachments: [DIT 3 signed - revised.pdf](#)
[DIT 1 signed - revised.pdf](#)
[DIT 2 signed- revised.pdf](#)
[DIT 4 ENERCON.pdf](#)

DIT 4 is attached, with verified inputs for the early shutdown date of 10/31/2020. Steve included DIT 1 through 3 here, because the contract number was incorrect but there was no change in the input.

Thanks,

Matt Wilkinson
(404)668-6747

From: Huebsch, Steve <Steve.Huebsch@nexteraenergy.com>
Sent: Monday, September 16, 2019 8:48 AM
To: Matt Wilkinson <MWILKINSON@ENERCON.COM>
Subject: transfer of DIT 4

Ok so here is DIT 4. I also included a revision to the first three DITs correcting the contract number. Also, because I was feeling bad about getting the contract number wrong I figure I would pull you into it. At least you got the right contract number on the top of the page for the PSCDN 😊

Design Information Transmittal

From:	Steve Huebsch Design Engineering Supervisor , NEER		
To :	Matt Wilkinson, Project Manager		
Document/ EC/ Tracking Number:	Contract Number 2324933	Date: 9/16/19	DIT No: 04
	Release 042		
Document Title:	RADIOLOGICAL ANALYSIS FOR DECOMMISSIONING		
Facility/ Unit:	Duane Arnold	Quality Classification	1

SUBJECT: Transfer of design inputs in order for ENERCON to perform three separate analyses are being requested to support the Reduction in EP staff following removal of all fuel from the reactor and revision of the Fuel Handling Accident. These calculations are: Revision of the Fuel Handling Accident to determine when Reduction of commitment for the Control Building will be allowed, Determination of the fuel cladding (zirc fire) 10 hour minimum time allowance, and the Spent Fuel Pool loss of inventory Shine Dose Analysis.

Check if applicable:

This DIT confirms information previously transmitted orally on _____ by _____.

This information is preliminary. See explanation below.

SOURCE OF INFORMATION (Source documents should be uniquely identified)
CAL-F18-003, DAEC Outage 26 Cycle 27 Spent Fuel Decay Heat and Associated Calculations, Revision 2

DESCRIPTION OF INFORMATION (Write the information being transmitted or list each document being transmitted)
Specific information provided is the fuel bundle exposures for the fuel which will be discharged at the end of the current cycle on October 31, 2020.

Design Information Transmittal

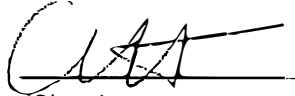
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<u>James French</u>	<u>Nuclear Fuels Engineer</u>	<u></u>	<u>9/16/2019</u>
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VERIFIED BY (Design verification is required if the information is not a verified design output. Verification is also required if the information is developed, interpreted, or extracted from an unverified source. Otherwise, N/A).

<u>Emilio Fuentes</u>	<u>Nuclear Fuels Manager</u>	<u></u>	<u>9/16/2019</u>
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APPROVED BY (The cognizant Engineering Supervisor has release authority. Consult the Design Interface Agreement or local procedures to determine who else has release authority.)

<u>Steve Huebsch</u>	<u>Design Engineering Supervisor</u>	<u></u>	<u>9/16/2019</u>
Approver Name	Position	Signature	Date

A copy of the DIT (along with any attachments not on file) should be included with the associated EC or document record.

Inventory Design Inputs (item 3)

- Projected discharge to the SFP at the end of operations
 - Estimated discharge (shutdown) date and total number of assemblies discharged – 10/31/2020, 368
 - Assembly Type – assemblies starting with YLD and 26U are GNF2; assemblies starting with 27U are GNF2.02
 - Initial enrichment of each assembly – previously provided, no change
 - Estimated burnup of each assembly – See Table 1
 - MTU for each assembly – previously provided, no change

Table 1 – Core Inventory

Bundle ID	Burnup (GWD/MTU)	Bundle ID	Burnup (GWD/MTU)	Bundle ID	Burnup (GWD/MTU)	Bundle ID	Burnup (GWD/MTU)
YLD639	44.731	26U429	42.447	26U521	36.351	27U061	26.996
YLD640	44.467	26U430	42.548	26U522	36.290	27U062	27.029
YLD641	44.449	26U431	37.797	26U523	36.266	27U063	27.023
YLD642	44.587	26U432	42.415	26U524	36.186	27U064	26.934
YLD643	46.112	26U433	45.154	26U525	36.336	27U065	24.552
YLD644	47.159	26U434	45.115	26U526	36.371	27U066	24.620
YLD645	49.761	26U435	45.007	26U527	36.410	27U067	24.545
YLD646	46.037	26U436	44.921	26U528	36.392	27U068	24.565
YLD655	43.593	26U437	41.141	26U529	38.259	27U069	24.577
YLD656	43.044	26U438	37.503	26U530	38.270	27U070	24.648
YLD657	43.818	26U439	37.537	26U531	38.118	27U071	24.673
YLD658	43.521	26U440	41.018	26U532	38.245	27U072	24.531
YLD659	43.433	26U441	45.694	26U533	38.281	27U073	27.148
YLD660	43.558	26U442	45.537	26U534	38.158	27U074	27.152
YLD661	45.184	26U443	45.529	26U535	38.167	27U075	27.130
YLD662	43.440	26U444	45.439	26U536	38.263	27U076	27.140
YLD695	50.340	26U445	41.095	26U537	33.972	27U077	26.975
YLD696	44.006	26U446	41.080	26U538	33.886	27U078	26.997
YLD697	43.988	26U447	40.965	26U539	33.830	27U079	27.001
YLD698	50.357	26U448	40.916	26U540	33.889	27U080	26.954
YLD699	50.304	26U449	45.323	26U541	34.146	27U081	27.189
YLD700	43.754	26U450	45.364	26U542	34.087	27U082	27.199
YLD701	43.672	26U451	45.289	26U543	34.004	27U083	27.190
YLD702	50.233	26U452	45.271	26U544	34.102	27U084	27.140
YLD703	50.369	26U453	46.180	26U545	38.261	27U085	27.003
YLD706	50.384	26U454	46.259	26U546	38.035	27U086	27.040
YLD707	45.863	26U455	46.279	26U547	38.007	27U087	27.083
YLD708	47.369	26U456	46.220	26U548	38.034	27U088	26.987
YLD709	43.016	26U457	46.553	26U549	38.140	27U089	24.575
YLD710	45.817	26U458	48.019	26U550	38.024	27U090	24.608
YLD724	50.585	26U459	47.698	26U551	37.913	27U091	24.564
YLD725	50.450	26U460	47.648	26U552	38.146	27U092	24.528
YLD751	44.222	26U461	47.826	27U001	27.876	27U093	24.723
YLD752	45.737	26U462	47.834	27U002	27.827	27U094	24.808
YLD753	45.745	26U463	48.067	27U003	27.845	27U095	24.835
YLD754	43.990	26U464	46.562	27U004	27.809	27U096	24.748
YLD755	45.654	26U465	46.861	27U005	27.645	27U097	23.026

Bundle ID	Burnup (GWD/MTU)	Bundle ID	Burnup (GWD/MTU)	Bundle ID	Burnup (GWD/MTU)	Bundle ID	Burnup (GWD/MTU)
YLD756	48.533	26U466	47.525	27U006	27.614	27U098	23.105
YLD757	48.419	26U467	47.455	27U007	27.657	27U099	23.036
YLD758	45.620	26U468	47.417	27U008	27.598	27U100	22.980
YLD759	49.512	26U469	46.645	27U009	26.497	27U101	23.062
YLD760	49.227	26U470	47.424	27U010	26.507	27U102	23.141
YLD761	44.528	26U471	46.682	27U011	26.474	27U103	23.192
YLD762	45.551	26U472	46.710	27U012	26.480	27U104	23.067
YLD763	49.268	26U473	41.172	27U013	26.210	27U105	24.213
YLD764	45.354	26U474	41.094	27U014	26.264	27U106	24.286
YLD765	44.803	26U475	37.354	27U015	26.257	27U107	24.151
YLD766	44.731	26U476	37.286	27U016	26.203	27U108	24.223
YLD767	44.427	26U477	37.435	27U017	24.194	27U109	24.218
YLD768	44.390	26U478	42.039	27U018	24.182	27U110	24.283
YLD769	44.391	26U479	40.935	27U019	24.165	27U111	24.327
YLD770	44.386	26U480	41.852	27U020	24.147	27U112	24.213
YLD771	49.611	26U481	46.025	27U021	24.557	27U113	23.821
YLD772	48.485	26U482	46.088	27U022	24.637	27U114	23.734
YLD773	44.465	26U483	45.999	27U023	24.641	27U115	23.763
YLD774	49.522	26U484	45.941	27U024	24.571	27U116	23.683
YLD775	49.670	26U485	46.102	27U025	25.766	27U117	23.798
YLD776	49.496	26U486	46.090	27U026	25.762	27U118	23.708
YLD777	49.369	26U487	46.180	27U027	25.766	27U119	23.824
YLD778	49.622	26U488	46.076	27U028	25.740	27U120	23.698
YLD779	49.479	26U489	46.831	27U029	25.056	27U121	26.834
YLD780	49.307	26U490	48.430	27U030	25.104	27U122	26.865
YLD781	49.377	26U491	46.831	27U031	25.125	27U123	26.807
YLD782	49.428	26U492	48.376	27U032	25.023	27U124	26.807
26U401	46.395	26U493	47.450	27U033	26.988	27U125	26.786
26U402	46.336	26U494	47.388	27U034	27.018	27U126	26.848
26U403	46.368	26U495	47.402	27U035	26.999	27U127	26.873
26U404	46.323	26U496	47.371	27U036	26.952	27U128	26.758
26U405	45.931	26U497	45.824	27U037	26.846	27U129	24.907
26U406	45.851	26U498	45.753	27U038	26.884	27U130	24.939
26U407	45.857	26U499	47.835	27U039	26.894	27U131	24.874
26U408	45.872	26U500	47.841	27U040	26.805	27U132	24.894
26U409	41.492	26U501	38.538	27U041	26.502	27U133	24.905
26U410	41.447	26U502	45.738	27U042	26.523	27U134	24.913
26U411	41.381	26U503	43.023	27U043	26.500	27U135	24.948
26U412	41.335	26U504	45.738	27U044	26.494	27U136	24.857

Bundle ID	Burnup (GWD/MTU)	Bundle ID	Burnup (GWD/MTU)	Bundle ID	Burnup (GWD/MTU)	Bundle ID	Burnup (GWD/MTU)
26U413	47.361	26U505	48.299	27U045	26.566	27U137	25.333
26U414	37.732	26U506	47.914	27U046	26.630	27U138	25.393
26U415	42.316	26U507	47.855	27U047	26.656	27U139	25.336
26U416	47.327	26U508	48.257	27U048	26.531	27U140	25.332
26U417	47.552	26U509	45.866	27U049	25.704	27U141	25.389
26U418	47.317	26U510	45.826	27U050	25.707	27U142	25.475
26U419	47.327	26U511	45.809	27U051	25.698	27U143	25.495
26U420	47.143	26U512	45.832	27U052	25.667	27U144	25.372
26U421	47.339	26U513	37.405	27U053	25.045	27U145	27.007
26U422	47.232	26U514	37.509	27U054	25.064	27U146	27.018
26U423	47.267	26U515	37.404	27U055	25.092	27U147	26.999
26U424	47.141	26U516	37.338	27U056	24.999	27U148	26.987
26U425	42.105	26U517	37.423	27U057	27.046	27U149	26.990
26U426	40.932	26U518	37.539	27U058	27.064	27U150	27.006
26U427	40.944	26U519	37.375	27U059	27.049	27U151	27.019
26U428	40.834	26U520	37.339	27U060	27.046	27U152	26.934

Several of these characteristics for various alloys are listed in Tables 2 and 3. Table 2 gives the solidification range and thermal properties, while Table 3 ranks various alloys in terms of castability, corrosion resistance, machinability, and weldability. Note that the rankings in Table 3 can vary with the casting process. Each casting process may also require specific metal characteristics. For example, die and permanent mold casting generally require alloys with good fluidity and resistance to hot tearing, whereas these properties are less critical in sand, plaster, and investment casting, where molds and cores offer less resistance to shrinkage.

Table 2 Typical physical properties of aluminum casting alloys

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s·°C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
Aluminum rotor alloys (pure aluminum)										
Pure aluminum 99.996% Al	0 °F	2.71	2713	0.098	660.2- 660.2	1220.4- 1220.4	64.94	0.57	23.86 (13.25)	25.45 (14.14)
EC Alloy 99.45% Al, similar to 150.0 alloy	0 °F	2.70	2713	0.098	657- 643	1215- 1190	57	0.53	23.5 (13)	25.6 (14.2)
Commercial Duralumin alloys (Al-Cu)										
222.0	F(P)	2.95	2962	0.107	520- 625	970- 1160	34	0.32	22.1 (12.3)	23.6 (13.1)
	O(S)	2.95	2962	0.107	520- 625	970- 1160	41	0.38	...	...
	T61(S)	2.95	2962	0.107	520- 625	970- 1160	33	0.31	22.1 (12.3)	23.6 (13.1)
224.0	T62(S)	2.81	2824	0.102	550- 645	1020- 1190	30	0.28	...	...
238.0	F(P)	2.95	1938	0.107	510- 600	950- 1110	25	0.25	21.4 (11.9)	22.9 (12.7)
240.0	F(S)	2.78	2768	0.100	515- 605	960- 1120	23	0.23	22.1 (12.3)	24.3 (13.5)

Attachment 5

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s·°C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
242.0	O(S)	2.81	2823	0.102	530-635	990-1180	44	0.40	...	...
	T77(S)	2.81	2823	0.102	525-635	980-1180	38	0.36	22.1 (12.3)	23.6 (13.1)
	T571(P)	2.81	2823	0.102	525-635	980-1180	34	0.32	22.5 (12.5)	24.5 (13.6)
	T61(P)	2.81	2823	0.102	525-635	980-1180	33	0.32	22.5 (12.5)	24.5 (13.6)
Premium casting alloys (high strength and toughness alloys)										
201.0	T6(S)	2.80	2796	0.101	570-650	1000-1200	27-32	0.29	19.3 (10.7)	24.7 (13.7)
	T7(P)	2.80	2796	0.101	570-650	1000-1200	32-34	0.29	19.3 (10.7)	24.7 (13.7)
206.0	T4(S)	2.8	2796	0.101	570-650	1000-1200	30	0.29	19.3 (10.7)	24.7 (13.7)
204.0	T4(S)	2.8	2800	0.101	570-650	1060-1200	29	0.29	19.3 (10.7)	...
204.0	T6(S)(P)	2.8	2800	0.101	570-650	1060-1200	34	0.29	19.3 (10.7)	...
224.0	T62(S)	2.81	2824	0.102	550-645	1020-1190	30	0.28	...	...
295.0	T4(S)	2.81	2823	0.102	520-645	970-1190	35	0.33	22.9 (12.7)	24.8 (13.8)
	T62(S)	2.81	2823	0.102	520-645	970-1190	35	0.34	22.9 (12.7)	24.8 (13.8)

Attachment 5

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s· °C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
296.0	T4(P)	2.80	2796	0.101	520-630	970-1170	33	0.32	22.0 (12.2)	23.9 (13.3)
	T6(P)	2.80	2796	0.101	520-630	970-1170	33	0.32	22.0 (12.2)	23.9 (13.3)
	T62(S)	2.80	2796	0.101	520-630	970-1170	33	0.32	...	...
C355.0	T61(S)	2.71	2713	0.098	550-620	1020-1150	39	0.35	22.3 (12.4)	24.7 (13.7)
A356.0	T6(S)	2.69	2713	0.098	560-610	1040-1130	40	0.36	21.4 (11.9)	23.4 (13.0)
A357.0	T6(S)	2.69	2713	0.098	555-610	1030-1130	40	0.38	21.4 (11.9)	23.6 (13.1)
Piston and elevated-temperature alloys										
332.0	T5(P)	2.76	2768	0.100	520-580	970-1080	26	0.25	20.7 (11.5)	22.3 (12.4)
360.0	F(D)	2.68	2685	0.097	570-590	1060-1090	37	0.35	20.9 (11.6)	22.9 (12.7)
A360.0	F(D)	2.68	2685	0.097	570-590	1060-1090	37	0.35	21.1 (11.7)	22.9 (12.7)
364.0	F(D)	2.63	2630	0.095	560-600	1040-1110	30	0.29	20.9 (11.6)	22.9 (12.7)
380.0	F(D)	2.76	2740	0.099	520-590	970-1090	27	0.26	21.2 (11.8)	22.5 (12.5)
A380.0	F(D)	2.76	2740	0.099	520-590	970-1090	27	0.26	21.1 (11.7)	22.7 (12.6)

Attachment 5

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s·°C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
384.0	F(D)	2.70	2713	0.098	480-580	900-1080	23	0.23	20.3 (11.3)	22.1 (12.3)
390.0	F(D)	2.73	2740	0.099	510-650	950-1200	25	0.32	18.5 (10.3)	...
	T5(D)	2.73	2740	0.099	510-650	950-1200	24	0.32	18.0 (10.0)	...
Standard general-purpose alloys										
208.0	F(S)	2.79	2796	0.101	520-630	970-1170	31	0.29	22.0 (12.2)	23.9 (13.3)
308.0	F(P)	2.79	2796	0.101	520-615	970-1140	37	0.34	21.4 (11.9)	22.9 (12.7)
319.0	F(S)	2.79	2796	0.101	520-605	970-1120	27	0.27	21.6 (12.0)	24.1 (13.4)
	F(P)	2.79	2796	0.101	520-605	970-1120	28	0.28	21.6 (12.0)	24.1 (13.4)
324.0	F(P)	2.67	2658	0.096	545-605	1010-1120	34	0.37	21.4 (11.9)	23.2 (12.9)
238.0	F(P)	2.95	2962	0.107	510-600	950-1110	25	0.25	21.4 (11.0)	22.9 (12.7)
240.0	F(S)	2.78	2768	0.100	515-605	960-1120	23	0.23	22.1 (12.3)	24.3 (13.5)
242.0	O(S)	2.81	2823	0.102	530-635	990-1180	44	0.40	...	...
	T77(S)	2.81	2823	0.102	525-635	980-1180	38	0.36	22.1 (12.3)	23.6 (13.1)

Attachment 5

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s· °C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
	T571(P)	2.81	2823	0.102	525-635	980-1180	34	0.32	22.5 (12.5)	24.5 (13.6)
	T61(P)	2.81	2823	0.102	525-635	980-1180	33	0.32	22.5 (12.5)	24.5 (13.6)
295.0	T4(S)	2.81	2823	0.102	520-645	970-1190	35	0.33	22.9 (12.7)	24.8 (13.8)
	T62(S)	2.81	2823	0.102	520-645	970-1190	35	0.34	22.9 (12.7)	24.8 (13.8)
296.0	T4(P)	2.80	2796	0.101	520-630	970-1170	33	0.32	22.0 (12.2)	23.9 (13.3)
	T6(P)	2.80	2796	0.101	520-630	970-1170	33	0.32	22.0 (12.2)	23.9 (13.3)
	T62(S)	2.80	2796	0.101	520-630	970-1170	33	0.32	...	...
308.0	F(P)	2.79	2796	0.101	520-615	970-1140	37	0.34	21.4 (11.9)	22.9 (12.7)
319.0	F(S)	2.79	2796	0.101	520-605	970-1120	27	0.27	21.6 (12.0)	24.1 (13.4)
	F(P)	2.79	2796	0.101	520-605	970-1120	28	0.28	21.6 (12.0)	24.1 (13.4)
324.0	F(P)	2.67	2658	0.096	545-605	1010-1120	34	0.37	21.4 (11.9)	23.2 (12.9)
333.0	F(P)	2.77	2768	0.100	520-585	970-1090	26	0.25	20.7 (11.5)	22.7 (12.6)
	T5(P)	2.77	2768	0.100	520-585	970-1090	29	0.29	20.7(11.5)	22.7 (12.6)

Attachment 5

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s· °C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
	T6(P)	2.77	2768	0.100	520-585	970-1090	29	0.28	20.7 (11.5)	22.7 (12.6)
	T7(P)	2.77	2768	0.100	520-585	970-1090	0.35	34	20.7 (11.5)	22.7 (12.6)
336.0	T551(P)	2.72	2713	0.098	540-570	1000-1060	29	0.28	18.9 (10.5)	20.9 (11.6)
354.0	F(P)	2.71	2713	0.098	540-600	1000-1110	32	0.30	20.9 (11.6)	22.9 (12.7)
355.0	T51(S)	2.71	2713	0.098	550-620	1020-1150	43	0.40	22.3 (12.4)	24.7 (13.7)
	T6(S)	2.71	2713	0.098	550-620	1020-1150	36	0.34	22.3 (12.4)	24.7 (13.7)
	T61(S)	2.71	2713	0.098	550-620	1020-1150	37	0.35	22.3 (12.4)	24.7 (13.7)
	T7(S)	2.71	2713	0.098	550-620	1020-1150	42	0.39	22.3 (12.4)	24.7 (13.7)
	T6(P)	2.71	2713	0.098	550-620	1020-1150	39	0.36	22.3 (12.4)	24.7 (13.7)
356.0	T51(S)	2.68	2685	0.097	560-615	1040-1140	43	0.40	21.4 (11.9)	23.4 (13.0)
	T6(S)	2.68	2685	0.097	560-615	1040-1140	39	0.36	21.4 (11.9)	23.4 (13.0)
	T7(S)	2.68	2685	0.097	560-615	1040-1140	40	0.37	21.4 (11.9)	23.4 (13.0)
	T6(P)	2.68	2685	0.097	560-615	1040-1140	41	0.37	21.4 (11.9)	23.4 (13.0)

Attachment 5

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s· °C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
A356.0	T6(S)	2.69	2713	0.098	560-610	1040-1130	40	0.36	21.4 (11.9)	23.4 (13.0)
357.0	T6(S)	2.68	2713	0.098	560-615	1040-1140	39	0.36	21.4 (11.9)	23.4 (13.0)
A357.0	T6(S)	2.69	2713	0.098	555-610	1030-1130	40	0.38	21.4 (11.9)	23.6 (13.1)
358.0	T6(S)	2.68	2658	0.096	560-600	1040-1110	39	0.36	21.4 (11.9)	23.4 (13.0)
359.0	T6(S)	2.67	2685	0.097	565-600	1050-1110	35	0.33	20.9 (11.6)	22.9 (12.7)
392.0	F(P)	2.64	2630	0.095	550-670	1020-1240	22	0.22	18.5 (10.3)	20.2 (11.2)
443.0	F(S)	2.69	2685	0.097	575-630	1070-1170	37	0.35	22.1 (12.3)	24.1 (13.4)
	O(S)	2.69	2685	0.097	575-630	1070-1170	42	0.39	...	...
	F(D)	2.69	2685	0.097	575-630	1070-1170	37	0.34	...	...
	F(P)	2.68	2685	0.097	575-630	1070-1170	41	0.38	21.8 (12.1)	23.8 (13.2)
Die casting alloys										
360.0	F(D)	2.68	2685	0.097	570-590	1060-1090	37	0.35	20.9 (11.6)	22.9 (12.7)
A360.0	F(D)	2.68	2685	0.097	570-590	1060-1090	37	0.35	21.1 (11.7)	22.9 (12.7)

Attachment 5

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s· °C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
364.0	F(D)	2.63	2630	0.095	560-600	1040-1110	30	0.29	20.9 (11.6)	22.9 (12.7)
380.0	F(D)	2.76	2740	0.099	520-590	970-1090	27	0.26	21.2 (11.8)	22.5 (12.5)
A380.0	F(D)	2.76	2740	0.099	520-590	970-1090	27	0.26	21.1 (11.7)	22.7 (12.6)
384.0	F(D)	2.70	2713	0.098	480-580	900-1080	23	0.23	20.3 (11.3)	22.1 (12.3)
390.0	F(D)	2.73	2740	0.099	510-650	950-1200	25	0.32	18.5 (10.3)	...
	T5(D)	2.73	2740	0.099	510-650	950-1200	24	0.32	18.0 (10.0)	...
413.0	F(D)	2.66	2657	0.096	575-585	1070-1090	39	0.37	20.5 (11.4)	22.5 (12.5)
A413.0	F(D)	2.66	2657	0.096	575-585	1070-1090	39	0.37	...	...
443.0	F(S)	2.69	2685	0.097	575-630	1070-1170	37	0.35	22.1 (12.3)	24.1 (13.4)
	O(S)	2.69	2685	0.097	575-630	1070-1170	42	0.39	...	...
	F(D)	2.69	2685	0.097	575-630	1070-1170	37	0.34	...	...
518.0	F(D)	2.53	2519	0.091	540-620	1000-1150	24	0.24	24.1 (13.4)	26.1 (14.5)
A535.0	F(D)	2.54	2547	0.092	550-620	1020-1150	23	0.24	24.1 (13.4)	26.1 (14.5)

Attachment 5

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s· °C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
Aluminum-magnesium alloys										
511.0	F(S)	2.66	2657	0.096	590-640	1090-1180	36	0.34	23.6 (13.1)	25.7 (14.3)
512.0	F(S)	2.65	2657	0.096	590-630	1090-1170	38	0.35	22.9 (12.7)	24.8 (13.8)
513.0	F(P)	2.68	2685	0.097	580-640	1080-1180	34	0.32	23.9 (13.3)	25.9 (14.4)
514.0	F(S)	2.65	2657	0.096	600-640	1110-1180	35	0.33	23.9 (13.3)	25.9 (14.4)
518.0	F(D)	2.53	2519	0.091	540-620	1000-1150	24	0.24	24.1 (13.4)	26.1 (14.5)
520.0	T4(S)	2.57	2574	0.093	450-600	840-1110	21	0.21	25.2 (14.0)	27.0 (15.0)
535.0	F(S)	2.62	2519	0.091	550-630	1020-1170	23	0.24	23.6 (13.1)	26.5 (14.7)
A535.0	F(D)	2.54	2547	0.092	550-620	1020-1150	23	0.24	24.1 (13.4)	26.1 (14.5)
B535.0	F(S)	2.62	2630	0.095	550-630	1020-1170	24	0.23	24.5 (13.6)	26.5 (14.7)
Aluminum-zinc alloys (Al-Zn-Mg and Al-Zn)										
705.0	F(S)	2.76	2768	0.100	600-640	1110-1180	25	0.25	23.6 (13.1)	25.7 (14.3)
707.0	F(S)	2.77	2768	0.100	585-630	1090-1170	25	0.25	23.8 (13.2)	25.9 (14.4)

Attachment 5

Alloy	Temper and product form ^(a)	Specific gravity ^(b)	Density ^(b)		Approximate melting range		Electrical conductivity, %IACS	Thermal conductivity at 25 °C (77 °F), cal/cm·s·°C	Coefficient of thermal expansion, per °C × 10 ⁻⁶ (per °F × 10 ⁻⁶)	
			kg/m ³	lb/in. ³	°C	°F			20-100 °C (68-212 °F)	20-300 °C (68-570 °F)
710.0	F(S)	2.81	2823	0.102	600-650	1110-1200	35	0.33	24.1 (13.4)	26.3 (14.6)
711.0	F(P)	2.84	2851	0.103	600-645	1110-1190	40	0.38	23.6 (13.1)	25.6 (14.2)
712.0	F(S)	2.82	2823	0.102	600-640	1110-1180	40	0.38	23.6 (13.1)	25.6 (14.2)
Bearing alloys (aluminum-tin)										
713.0	F(S)	2.84	2879	0.104	595-630	1110-1170	37	0.37	23.9 (13.3)	25.9 (14.4)
850.0	T5(S)	2.87	2851	0.103	225-650	440-1200	47	0.44	...	...
851.0	T5(S)	2.83	2823	0.102	230-630	450-1170	43	0.40	22.7 (12.6)	...
852.0	T5(S)	2.88	2879	0.104	210-635	410-1180	45	0.42	23.2 (12.9)	...

(a) S, sand cast; P, permanent mold; D, die cast.

(b) The specific gravity and weight data in this table assume solid (void-free) metal. Because some porosity cannot be avoided in commercial castings, their specific gravity or weight is slightly less than the theoretical value.

Appendix 4 Design for Fire Conditions

This appendix addresses the design and evaluation of aluminum structures exposed to fire. It includes criteria for determining heat input, thermal expansion, and reduction in mechanical properties of aluminum at elevated temperatures.

4.1 General Provisions

Design for fire conditions shall comply with the requirements for design by engineering analysis given in Section 4.2 or the requirements for design by qualification testing given in Section 4.3. The analysis methods in Section 4.2 document the anticipated performance of aluminum structures when subjected to design-basis fires, and provide evidence of compliance with the performance objectives of Section 4.1.2. The qualification testing methods in Section 4.3 document the fire resistance of aluminum structures subject to the standardized fire testing protocols required by building codes.

4.1.1 Definitions

This appendix uses the following terms as defined below:

active fire protection: structural materials and systems activated by a fire to mitigate adverse effects or notify people to take action to mitigate adverse effects.

compartmentation: the enclosure of a structure's space with elements that have a specific fire endurance.

design-basis fire: a set of conditions that define the development of a fire and the spread of combustion products in a structure.

elevated temperatures: temperatures in excess of the anticipated ambient temperature, experienced by structural elements as a result of fire.

fire: destructive burning, as manifested by any or all of the following: light, flame, heat, or smoke.

fire barrier: an element of construction formed of fire-resisting materials and tested in accordance with ASTM E 119 or other approved standard fire-resistance test to demonstrate compliance with the building code.

fire endurance: a measure of the elapsed time during which a material or assembly continues to exhibit fire resistance.

fire resistance: the property of assemblies that prevents or retards the passage of excessive heat, hot gases, or flames under conditions of use and enables them to continue to perform a stipulated function.

flashover: the transition to a state of total surface involvement in a fire of combustible materials within an enclosure.

heat flux: radiant energy per unit surface area.

heat release rate: the rate at which thermal energy is generated by a burning material.

restrained construction: floor and roof assemblies and individual beams in buildings where the surrounding or supporting structure is capable of resisting substantial thermal expansion throughout the range of anticipated elevated temperatures.

unrestrained construction: floor and roof assemblies and individual beams in buildings that are assumed to be free to rotate and expand throughout the range of anticipated elevated temperatures.

4.1.2 Performance Objectives

Structural components, members, and frame systems shall be designed to maintain their load-bearing function during the design-basis fire and to satisfy other performance requirements specified for the building occupancy.

Deformation criteria shall be applied where the means of providing structural fire resistance or the design criteria for fire barriers requires consideration of the deformation of the load-carrying structure.

Forces and deformations from the design-basis fire shall not cause a horizontal or vertical breach of the compartment of fire origin.

4.1.3 Load Combinations and Required Strength

The required strength of the structure and its elements shall be determined using load and resistance factor design for the following gravity load combination:

$$[0.9 \text{ or } 1.2]D_n + T + 0.5L_n + 0.2S_n \quad (4-1)$$

where

D_n = nominal dead load

L_n = nominal live load

S_n = nominal snow load

T = nominal forces and deformations due to the design-basis fire defined in Section 4.2.1.

D_n , L_n , and S_n shall be the nominal loads specified in ASCE 7.

4.2 Design for Fire Conditions by Analysis

4.2.1 Design-Basis Fire

A design-basis fire shall be defined that describes heating conditions for the structure. These heating conditions shall relate to the fuel commodities and compartment characteristics present in the assumed fire area. The fuel load density based on the occupancy of the space shall be considered when determining the total fuel load. Heating conditions shall be specified in terms of a heat flux or temperature of the upper gas layer created by the fire. The variation of the heating conditions with time shall be determined for the duration of the fire.

Attachment 6

When the analysis methods in Section 4.2 are used to demonstrate an equivalency as an alternative material or method as permitted by a building code, the design-basis fire shall be determined in accordance with ASTM E 119.

4.2.1.1 Localized Fire

Where the heat release rate from the fire is insufficient to cause flashover, a localized fire exposure shall be assumed. In such cases, the fuel composition, arrangement of the fuel, and area occupied by the fuel shall be used to determine the radiant heat flux from the flame and smoke plume to the structure.

4.2.1.2 Post-Flashover Compartment Fires

Where the heat release rate from the fire is sufficient to cause flashover, a post-flashover compartment fire shall be assumed. The determination of the temperature versus time profile resulting from the fire shall include fuel load, ventilation characteristics to the space (natural and mechanical), compartment dimensions, and thermal characteristics of the compartment boundary.

4.2.1.3 Exterior Fires

The exposure of exterior structure to flames projecting from wall openings as a result of a post-flashover compartment fire shall be considered along with the radiation from the interior fire through the opening. The shape and length of the flame projection and distance between the flame and the exterior structure shall be used to determine the heat flux to the aluminum. The method in Section 4.2.1.2 shall be used to define the interior compartment fire characteristics.

4.2.1.4 Fire Duration

The fire duration in a particular area shall be determined by considering the total combustible mass, the available fuel in the space. In the case of a localized fire or a post-flashover fire, the time duration shall be determined as the total combustible mass divided by the mass loss rate, except where determined from Section 4.2.1.2.

4.2.1.5 Active Fire Protection Systems

The effects of active fire protection systems shall be considered when defining the design-basis fire.

Where automatic smoke and heat vents are installed in non-sprinklered spaces, the resulting smoke temperature shall be determined from calculation.

4.2.2 Temperatures in Structural Systems under Fire Conditions

Temperatures within structural members, components, and frames due to heating conditions posed by the design-basis fire shall be determined by a heat transfer analysis.

4.2.3 Material Properties at Elevated Temperatures

4.2.3.1 Mechanical Properties

The deterioration in strength and stiffness of structural members shall be accounted for in the structural analysis. The modulus of elasticity at elevated temperatures E_m shall be determined from test data or Table 4.1. Yield strengths F_{lym} and ultimate strengths F_{lum} at elevated temperatures shall be determined from test data or Table 4.2.

4.2.3.2 Thermal Expansion

Thermal expansion for temperatures between 70°F and 600°F (20°C and 300°C) shall be determined using a coefficient of thermal expansion for aluminum of $14.2 \times 10^{-6}/°F$ ($25.6 \times 10^{-6}/°C$).

4.2.3.3 Specific Heat

The specific heat of aluminum alloys is 0.23 Btu/lb/°F (960 J/kg/°C) at 212°F (100°C).

4.2.4 Structural Design Requirements

4.2.4.1 General Structural Integrity

Structures shall provide adequate strength and deformation capacity to withstand the conditions developed during the design-basis fire within the prescribed limits of deformation. The structural system shall be designed to sustain local damage with the structural system as a whole remaining stable.

Continuous load paths shall be provided to transfer all forces from the region exposed to fire to the final point of resistance. The foundation shall be designed to resist the forces and to accommodate the deformations developed during the design-basis fire.

**Table 4.1
MODULUS OF ELASTICITY AT
ELEVATED TEMPERATURES**

Aluminum Temperature		E_m/E 6xxx alloys
(°F)	(°C)	
75	24	1.00
200	93	1.00
212	100	0.96
300	149	0.92
350	177	0.90
400	204	0.87
450	232	0.84
500	260	0.80
600	316	0.69
700	371	0.56
1000	538	0.00

Interpolate for temperatures between those given in the table.

Appendix 4 Design for Fire Conditions

4.1 General Provisions

This appendix is similar to the AISC (2005) appendix on design for fire conditions. While aluminum is non-combustible as determined by ASTM E 136 tests, aluminum strengths and stiffness are less at elevated temperatures than at room temperature.

4.1.3 Load Combinations and Required Strength

The analysis must be performed in accordance with the requirements of Chapter C.

4.2 Design for Fire Conditions by Analysis

4.2.3 Material Properties at Elevated Temperatures

Eurocode 9 Part 1-2 provides additional information on aluminum material properties at elevated temperatures.

4.2.3.1 Mechanical Properties

The modulus of elasticity E_m at elevated temperatures is not a function of time at the elevated temperature. The moduli given by Table 4.1 are from Kaufman (1998).

Strengths at elevated temperatures are a function of time at the elevated temperature. The strengths given in Table 4.2 are from Kaufman (1999) for 10 hours at the elevated temperature. Kaufman provides test data for additional alloy-temperatures.

4.2.3.2 Thermal Expansion

The coefficient of thermal expansion increases with temperature and does not vary significantly by alloy.

4.2.3.3 Specific Heat

Specific heats increase with temperature.

Aluminum Standards and Data (2009) Table 2.3 provides thermal conductivities for aluminum alloys at room temperature. Thermal conductivities vary by alloy and temperature and increase with temperature.

Appendix 5 Evaluation of Existing Structures

5.4 Evaluation by Load Testing

The procedure for evaluating existing structures by load testing is intended to produce no permanent deformation. The *International Building Code 2009* section 1714.3.2 requires that existing structures be load tested to 2 times the design load. This would exceed safety factors used for aluminum

building structures (1.65 on yield and 1.95 on collapse). The test load is therefore limited to a factored load of $1.0D + 1.4L$, which is approximately 85% of the LRFD load combination $1.2D + 1.6L$. ACI uses 85% of their factored loads. The load factor for wind, snow, or rain loads should be the same as for live load when determining the test load.

**Heat-up Time Calculation 9.0 months after Shutdown,
 120F Initial Temperature, Holtec SFP Rack**

Attachment 7

	A	B	C	D	E	F
1	Decay Heat (9.0 months)	1.237E+04	W/MTU			
2	Decay Heat	7871.50	BTU/Hr/Assembly			
3	Mass UO2	463.54	lbm			
4	Mass Clad	94.03	lbm			
5	Mass Upper Plenum	9.5	lbm			
6	Mass Lower Plenum	17.45	lbm			
7	Mass Channel Box	45.2	lbm			
8	Mass Rack	41.11	lbm			
9	Upper Plenum Length	1.562	ft			
10	Lower Plenum Length	0.620	ft			
11	UP/Fuel Surface Area	0.0160	ft^2			
12	LP/Fuel Surface Area	0.0188	ft^2			
13	Stefan-Boltzman	1.71E-09	BTU/hr-ft^2-R^4			
14	Emmisivity	0.4				
15	Radiation Surface Area	22.0125	ft^2			
16	Starting Temp	120	F	322.038889	K	
17	10 hour temp	1643.51	F	895.28	C	
18						
19		Equations (for row 24)	x=C23+Q23	x=D23+M23	X=E23+N23	X=F23+O23
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
23	0	0.005	120	120	120	120
24	0.005	0.005	121.17	120.00	120.00	120.00
25	0.01	0.005	122.35	120.00	120.00	120.02
26	0.015	0.005	123.51	120.00	120.00	120.07
27	0.02	0.005	124.68	120.00	120.01	120.13
28	0.025	0.005	125.84	120.01	120.01	120.22
29	0.03	0.005	127.00	120.01	120.02	120.32
30	0.035	0.005	128.16	120.01	120.02	120.45
31	0.04	0.005	129.31	120.02	120.03	120.59
32	0.045	0.005	130.46	120.02	120.04	120.75
33	0.05	0.005	131.61	120.03	120.05	120.92
34	0.055	0.005	132.76	120.04	120.06	121.12
35	0.06	0.005	133.90	120.05	120.07	121.33
36	0.065	0.005	135.04	120.05	120.09	121.55

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
37	0.07	0.005	136.18	120.06	120.10	121.79
38	0.075	0.005	137.31	120.07	120.12	122.04
39	0.08	0.005	138.44	120.08	120.13	122.31
40	0.085	0.005	139.57	120.09	120.15	122.60
41	0.09	0.005	140.70	120.10	120.17	122.89
42	0.095	0.005	141.82	120.12	120.19	123.20
43	0.1	0.005	142.95	120.13	120.21	123.52
44	0.105	0.005	144.07	120.14	120.23	123.85
45	0.11	0.005	145.18	120.16	120.25	124.20
46	0.115	0.005	146.30	120.17	120.28	124.55
47	0.12	0.005	147.41	120.19	120.30	124.92
48	0.125	0.005	148.52	120.20	120.33	125.30
49	0.13	0.005	149.63	120.22	120.35	125.69
50	0.135	0.005	150.73	120.24	120.38	126.09
51	0.14	0.005	151.83	120.26	120.41	126.50
52	0.145	0.005	152.93	120.28	120.44	126.92
53	0.15	0.005	154.03	120.29	120.47	127.34
54	0.155	0.005	155.13	120.31	120.50	127.78
55	0.16	0.005	156.22	120.34	120.54	128.23
56	0.165	0.005	157.31	120.36	120.57	128.68
57	0.17	0.005	158.40	120.38	120.61	129.15
58	0.175	0.005	159.49	120.40	120.64	129.62
59	0.18	0.005	160.57	120.42	120.68	130.10
60	0.185	0.005	161.66	120.45	120.72	130.59
61	0.19	0.005	162.74	120.47	120.76	131.08
62	0.195	0.005	163.81	120.50	120.80	131.59
63	0.2	0.005	164.89	120.52	120.84	132.10
64	0.205	0.005	165.96	120.55	120.88	132.61
65	0.21	0.005	167.04	120.58	120.92	133.14
66	0.215	0.005	168.11	120.60	120.97	133.67
67	0.22	0.005	169.17	120.63	121.01	134.21
68	0.225	0.005	170.24	120.66	121.06	134.75
69	0.23	0.005	171.30	120.69	121.10	135.30
70	0.235	0.005	172.37	120.72	121.15	135.86
71	0.24	0.005	173.43	120.75	121.20	136.43
72	0.245	0.005	174.48	120.78	121.25	137.00
73	0.25	0.005	175.54	120.81	121.30	137.57
74	0.255	0.005	176.59	120.85	121.35	138.15
75	0.26	0.005	177.64	120.88	121.41	138.74
76	0.265	0.005	178.69	120.91	121.46	139.33
77	0.27	0.005	179.74	120.95	121.52	139.93

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
78	0.275	0.005	180.79	120.98	121.57	140.53
79	0.28	0.005	181.83	121.02	121.63	141.14
80	0.285	0.005	182.88	121.06	121.68	141.75
81	0.29	0.005	183.92	121.09	121.74	142.37
82	0.295	0.005	184.95	121.13	121.80	143.00
83	0.3	0.005	185.99	121.17	121.86	143.62
84	0.305	0.005	187.03	121.21	121.92	144.26
85	0.31	0.005	188.06	121.24	121.99	144.89
86	0.315	0.005	189.09	121.28	122.05	145.54
87	0.32	0.005	190.12	121.32	122.11	146.18
88	0.325	0.005	191.15	121.37	122.18	146.83
89	0.33	0.005	192.17	121.41	122.24	147.49
90	0.335	0.005	193.20	121.45	122.31	148.15
91	0.34	0.005	194.22	121.49	122.38	148.81
92	0.345	0.005	195.24	121.53	122.45	149.48
93	0.35	0.005	196.26	121.58	122.52	150.15
94	0.355	0.005	197.27	121.62	122.59	150.82
95	0.36	0.005	198.29	121.67	122.66	151.50
96	0.365	0.005	199.30	121.71	122.73	152.18
97	0.37	0.005	200.31	121.76	122.80	152.87
98	0.375	0.005	201.32	121.81	122.88	153.56
99	0.38	0.005	202.33	121.85	122.95	154.25
100	0.385	0.005	203.34	121.90	123.03	154.95
101	0.39	0.005	204.34	121.95	123.10	155.65
102	0.395	0.005	205.35	122.00	123.18	156.36
103	0.4	0.005	206.35	122.05	123.26	157.06
104	0.405	0.005	207.35	122.10	123.34	157.77
105	0.41	0.005	208.35	122.15	123.42	158.49
106	0.415	0.005	209.34	122.20	123.50	159.20
107	0.42	0.005	210.34	122.25	123.58	159.92
108	0.425	0.005	211.33	122.30	123.67	160.65
109	0.43	0.005	212.32	122.36	123.75	161.37
110	0.435	0.005	213.31	122.41	123.83	162.10
111	0.44	0.005	214.30	122.46	123.92	162.84
112	0.445	0.005	215.29	122.52	124.01	163.57
113	0.45	0.005	216.27	122.57	124.09	164.31
114	0.455	0.005	217.26	122.63	124.18	165.05
115	0.46	0.005	218.24	122.69	124.27	165.79
116	0.465	0.005	219.22	122.74	124.36	166.54
117	0.47	0.005	220.20	122.80	124.45	167.29
118	0.475	0.005	221.18	122.86	124.54	168.04

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
119	0.48	0.005	222.15	122.92	124.63	168.80
120	0.485	0.005	223.13	122.97	124.73	169.55
121	0.49	0.005	224.10	123.03	124.82	170.31
122	0.495	0.005	225.07	123.09	124.92	171.08
123	0.5	0.005	226.04	123.15	125.01	171.84
124	0.505	0.005	227.01	123.22	125.11	172.61
125	0.51	0.005	227.97	123.28	125.21	173.38
126	0.515	0.005	228.94	123.34	125.30	174.15
127	0.52	0.005	229.90	123.40	125.40	174.92
128	0.525	0.005	230.87	123.47	125.50	175.70
129	0.53	0.005	231.83	123.53	125.60	176.48
130	0.535	0.005	232.79	123.59	125.70	177.26
131	0.54	0.005	233.74	123.66	125.81	178.04
132	0.545	0.005	234.70	123.72	125.91	178.83
133	0.55	0.005	235.66	123.79	126.01	179.62
134	0.555	0.005	236.61	123.86	126.12	180.41
135	0.56	0.005	237.56	123.92	126.22	181.20
136	0.565	0.005	238.51	123.99	126.33	181.99
137	0.57	0.005	239.46	124.06	126.44	182.79
138	0.575	0.005	240.41	124.13	126.55	183.59
139	0.58	0.005	241.36	124.20	126.65	184.39
140	0.585	0.005	242.30	124.27	126.76	185.19
141	0.59	0.005	243.25	124.34	126.87	185.99
142	0.595	0.005	244.19	124.41	126.99	186.80
143	0.6	0.005	245.13	124.48	127.10	187.61
144	0.605	0.005	246.07	124.55	127.21	188.42
145	0.61	0.005	247.01	124.62	127.32	189.23
146	0.615	0.005	247.94	124.69	127.44	190.04
147	0.62	0.005	248.88	124.77	127.55	190.86
148	0.625	0.005	249.81	124.84	127.67	191.68
149	0.63	0.005	250.75	124.92	127.79	192.49
150	0.635	0.005	251.68	124.99	127.90	193.31
151	0.64	0.005	252.61	125.07	128.02	194.14
152	0.645	0.005	253.54	125.14	128.14	194.96
153	0.65	0.005	254.47	125.22	128.26	195.79
154	0.655	0.005	255.39	125.30	128.38	196.61
155	0.66	0.005	256.32	125.37	128.50	197.44
156	0.665	0.005	257.24	125.45	128.63	198.27
157	0.67	0.005	258.17	125.53	128.75	199.11
158	0.675	0.005	259.09	125.61	128.87	199.94
159	0.68	0.005	260.01	125.69	129.00	200.78

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
160	0.685	0.005	260.93	125.77	129.12	201.61
161	0.69	0.005	261.84	125.85	129.25	202.45
162	0.695	0.005	262.76	125.93	129.37	203.29
163	0.7	0.005	263.68	126.01	129.50	204.13
164	0.705	0.005	264.59	126.09	129.63	204.98
165	0.71	0.005	265.50	126.17	129.76	205.82
166	0.715	0.005	266.42	126.26	129.89	206.67
167	0.72	0.005	267.33	126.34	130.02	207.52
168	0.725	0.005	268.24	126.42	130.15	208.37
169	0.73	0.005	269.14	126.51	130.28	209.22
170	0.735	0.005	270.05	126.59	130.42	210.07
171	0.74	0.005	270.96	126.68	130.55	210.92
172	0.745	0.005	271.86	126.76	130.68	211.78
173	0.75	0.005	272.76	126.85	130.82	212.63
174	0.755	0.005	273.67	126.94	130.95	213.49
175	0.76	0.005	274.57	127.02	131.09	214.35
176	0.765	0.005	275.47	127.11	131.23	215.21
177	0.77	0.005	276.37	127.20	131.37	216.07
178	0.775	0.005	277.27	127.29	131.50	216.93
179	0.78	0.005	278.16	127.38	131.64	217.79
180	0.785	0.005	279.06	127.47	131.78	218.66
181	0.79	0.005	279.95	127.56	131.92	219.53
182	0.795	0.005	280.85	127.65	132.07	220.39
183	0.8	0.005	281.74	127.74	132.21	221.26
184	0.805	0.005	282.63	127.83	132.35	222.13
185	0.81	0.005	283.52	127.92	132.50	223.00
186	0.815	0.005	284.41	128.01	132.64	223.88
187	0.82	0.005	285.30	128.11	132.78	224.75
188	0.825	0.005	286.19	128.20	132.93	225.62
189	0.83	0.005	287.07	128.30	133.08	226.50
190	0.835	0.005	287.96	128.39	133.22	227.38
191	0.84	0.005	288.84	128.48	133.37	228.26
192	0.845	0.005	289.73	128.58	133.52	229.14
193	0.85	0.005	290.61	128.68	133.67	230.02
194	0.855	0.005	291.49	128.77	133.82	230.90
195	0.86	0.005	292.37	128.87	133.97	231.78
196	0.865	0.005	293.25	128.97	134.12	232.66
197	0.87	0.005	294.13	129.06	134.28	233.55
198	0.875	0.005	295.01	129.16	134.43	234.43
199	0.88	0.005	295.88	129.26	134.58	235.32
200	0.885	0.005	296.76	129.36	134.74	236.21

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
201	0.89	0.005	297.63	129.46	134.89	237.10
202	0.895	0.005	298.51	129.56	135.05	237.99
203	0.9	0.005	299.38	129.66	135.20	238.88
204	0.905	0.005	300.25	129.76	135.36	239.77
205	0.91	0.005	301.12	129.86	135.52	240.66
206	0.915	0.005	301.99	129.96	135.68	241.56
207	0.92	0.005	302.86	130.07	135.84	242.45
208	0.925	0.005	303.73	130.17	136.00	243.35
209	0.93	0.005	304.59	130.27	136.16	244.24
210	0.935	0.005	305.46	130.38	136.32	245.14
211	0.94	0.005	306.33	130.48	136.48	246.04
212	0.945	0.005	307.19	130.58	136.64	246.94
213	0.95	0.005	308.05	130.69	136.81	247.84
214	0.955	0.005	308.92	130.79	136.97	248.74
215	0.96	0.005	309.78	130.90	137.13	249.64
216	0.965	0.005	310.64	131.01	137.30	250.55
217	0.97	0.005	311.50	131.11	137.46	251.45
218	0.975	0.005	312.36	131.22	137.63	252.35
219	0.98	0.005	313.22	131.33	137.80	253.26
220	0.985	0.005	314.07	131.44	137.97	254.17
221	0.99	0.005	314.93	131.55	138.14	255.07
222	0.995	0.005	315.79	131.66	138.30	255.98
223	1	0.005	316.64	131.76	138.47	256.89
224	1.005	0.005	317.49	131.87	138.65	257.80
225	1.01	0.005	318.35	131.99	138.82	258.71
226	1.015	0.005	319.20	132.10	138.99	259.62
227	1.02	0.005	320.05	132.21	139.16	260.53
228	1.025	0.005	320.90	132.32	139.33	261.44
229	1.03	0.005	321.75	132.43	139.51	262.36
230	1.035	0.005	322.60	132.54	139.68	263.27
231	1.04	0.005	323.45	132.66	139.86	264.19
232	1.045	0.005	324.30	132.77	140.03	265.10
233	1.05	0.005	325.15	132.88	140.21	266.02
234	1.055	0.005	325.99	133.00	140.39	266.94
235	1.06	0.005	326.84	133.11	140.56	267.86
236	1.065	0.005	327.68	133.23	140.74	268.77
237	1.07	0.005	328.53	133.34	140.92	269.69
238	1.075	0.005	329.37	133.46	141.10	270.62
239	1.08	0.005	330.22	133.58	141.28	271.54
240	1.085	0.005	331.06	133.69	141.46	272.46
241	1.09	0.005	331.90	133.81	141.64	273.38

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
242	1.095	0.005	332.74	133.93	141.83	274.30
243	1.1	0.005	333.58	134.05	142.01	275.23
244	1.105	0.005	334.42	134.17	142.19	276.15
245	1.11	0.005	335.26	134.29	142.38	277.08
246	1.115	0.005	336.10	134.41	142.56	278.00
247	1.12	0.005	336.93	134.53	142.75	278.93
248	1.125	0.005	337.77	134.65	142.93	279.86
249	1.13	0.005	338.61	134.77	143.12	280.79
250	1.135	0.005	339.44	134.89	143.31	281.71
251	1.14	0.005	340.28	135.01	143.50	282.64
252	1.145	0.005	341.11	135.13	143.68	283.57
253	1.15	0.005	341.94	135.26	143.87	284.50
254	1.155	0.005	342.78	135.38	144.06	285.43
255	1.16	0.005	343.61	135.50	144.25	286.36
256	1.165	0.005	344.44	135.63	144.45	287.30
257	1.17	0.005	345.27	135.75	144.64	288.23
258	1.175	0.005	346.10	135.87	144.83	289.16
259	1.18	0.005	346.93	136.00	145.02	290.09
260	1.185	0.005	347.76	136.13	145.22	291.03
261	1.19	0.005	348.59	136.25	145.41	291.96
262	1.195	0.005	349.42	136.38	145.60	292.90
263	1.2	0.005	350.25	136.50	145.80	293.83
264	1.205	0.005	351.07	136.63	146.00	294.77
265	1.21	0.005	351.90	136.76	146.19	295.70
266	1.215	0.005	352.73	136.89	146.39	296.64
267	1.22	0.005	353.55	137.02	146.59	297.57
268	1.225	0.005	354.38	137.15	146.79	298.51
269	1.23	0.005	355.20	137.27	146.99	299.45
270	1.235	0.005	356.02	137.40	147.18	300.39
271	1.24	0.005	356.85	137.53	147.39	301.33
272	1.245	0.005	357.67	137.67	147.59	302.26
273	1.25	0.005	358.49	137.80	147.79	303.20
274	1.255	0.005	359.32	137.93	147.99	304.14
275	1.26	0.005	360.14	138.06	148.19	305.08
276	1.265	0.005	360.96	138.19	148.40	306.02
277	1.27	0.005	361.78	138.32	148.60	306.96
278	1.275	0.005	362.60	138.46	148.80	307.90
279	1.28	0.005	363.42	138.59	149.01	308.84
280	1.285	0.005	364.24	138.73	149.21	309.78
281	1.29	0.005	365.05	138.86	149.42	310.73
282	1.295	0.005	365.87	138.99	149.63	311.67

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
283	1.3	0.005	366.69	139.13	149.84	312.61
284	1.305	0.005	367.51	139.27	150.04	313.55
285	1.31	0.005	368.32	139.40	150.25	314.49
286	1.315	0.005	369.14	139.54	150.46	315.44
287	1.32	0.005	369.96	139.67	150.67	316.38
288	1.325	0.005	370.77	139.81	150.88	317.32
289	1.33	0.005	371.59	139.95	151.09	318.27
290	1.335	0.005	372.40	140.09	151.30	319.21
291	1.34	0.005	373.22	140.23	151.52	320.15
292	1.345	0.005	374.03	140.36	151.73	321.10
293	1.35	0.005	374.84	140.50	151.94	322.04
294	1.355	0.005	375.66	140.64	152.16	322.99
295	1.36	0.005	376.47	140.78	152.37	323.93
296	1.365	0.005	377.28	140.92	152.59	324.87
297	1.37	0.005	378.09	141.06	152.80	325.82
298	1.375	0.005	378.90	141.21	153.02	326.76
299	1.38	0.005	379.72	141.35	153.23	327.71
300	1.385	0.005	380.53	141.49	153.45	328.65
301	1.39	0.005	381.34	141.63	153.67	329.60
302	1.395	0.005	382.15	141.78	153.89	330.54
303	1.4	0.005	382.96	141.92	154.11	331.49
304	1.405	0.005	383.77	142.06	154.33	332.44
305	1.41	0.005	384.58	142.21	154.55	333.38
306	1.415	0.005	385.38	142.35	154.77	334.33
307	1.42	0.005	386.19	142.50	154.99	335.27
308	1.425	0.005	387.00	142.64	155.21	336.22
309	1.43	0.005	387.81	142.79	155.43	337.16
310	1.435	0.005	388.62	142.93	155.66	338.11
311	1.44	0.005	389.42	143.08	155.88	339.05
312	1.445	0.005	390.23	143.23	156.11	340.00
313	1.45	0.005	391.04	143.37	156.33	340.95
314	1.455	0.005	391.84	143.52	156.56	341.89
315	1.46	0.005	392.65	143.67	156.78	342.84
316	1.465	0.005	393.46	143.82	157.01	343.78
317	1.47	0.005	394.26	143.97	157.24	344.73
318	1.475	0.005	395.07	144.12	157.46	345.67
319	1.48	0.005	395.87	144.26	157.69	346.62
320	1.485	0.005	396.68	144.41	157.92	347.57
321	1.49	0.005	397.48	144.57	158.15	348.51
322	1.495	0.005	398.28	144.72	158.38	349.46
323	1.5	0.005	399.09	144.87	158.61	350.40

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
324	1.505	0.005	399.89	145.02	158.84	351.35
325	1.51	0.005	400.69	145.17	159.07	352.29
326	1.515	0.005	401.50	145.32	159.30	353.24
327	1.52	0.005	402.30	145.48	159.54	354.18
328	1.525	0.005	403.10	145.63	159.77	355.13
329	1.53	0.005	403.91	145.78	160.00	356.07
330	1.535	0.005	404.71	145.94	160.24	357.02
331	1.54	0.005	405.51	146.09	160.47	357.96
332	1.545	0.005	406.31	146.25	160.71	358.91
333	1.55	0.005	407.11	146.40	160.95	359.85
334	1.555	0.005	407.91	146.56	161.18	360.79
335	1.56	0.005	408.72	146.71	161.42	361.74
336	1.565	0.005	409.52	146.87	161.66	362.68
337	1.57	0.005	410.32	147.03	161.90	363.62
338	1.575	0.005	411.12	147.18	162.13	364.57
339	1.58	0.005	411.92	147.34	162.37	365.51
340	1.585	0.005	412.72	147.50	162.61	366.45
341	1.59	0.005	413.52	147.66	162.85	367.40
342	1.595	0.005	414.32	147.81	163.09	368.34
343	1.6	0.005	415.12	147.97	163.34	369.28
344	1.605	0.005	415.92	148.13	163.58	370.22
345	1.61	0.005	416.72	148.29	163.82	371.17
346	1.615	0.005	417.51	148.45	164.06	372.11
347	1.62	0.005	418.31	148.61	164.31	373.05
348	1.625	0.005	419.11	148.77	164.55	373.99
349	1.63	0.005	419.91	148.94	164.80	374.93
350	1.635	0.005	420.71	149.10	165.04	375.87
351	1.64	0.005	421.51	149.26	165.29	376.81
352	1.645	0.005	422.31	149.42	165.54	377.75
353	1.65	0.005	423.10	149.59	165.78	378.69
354	1.655	0.005	423.90	149.75	166.03	379.63
355	1.66	0.005	424.70	149.91	166.28	380.57
356	1.665	0.005	425.50	150.08	166.53	381.51
357	1.67	0.005	426.29	150.24	166.78	382.45
358	1.675	0.005	427.09	150.41	167.03	383.39
359	1.68	0.005	427.89	150.57	167.28	384.32
360	1.685	0.005	428.68	150.74	167.53	385.26
361	1.69	0.005	429.48	150.90	167.78	386.20
362	1.695	0.005	430.28	151.07	168.03	387.14
363	1.7	0.005	431.07	151.23	168.28	388.07
364	1.705	0.005	431.87	151.40	168.53	389.01

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
365	1.71	0.005	432.67	151.57	168.79	389.95
366	1.715	0.005	433.46	151.74	169.04	390.88
367	1.72	0.005	434.26	151.91	169.30	391.82
368	1.725	0.005	435.06	152.07	169.55	392.75
369	1.73	0.005	435.85	152.24	169.81	393.69
370	1.735	0.005	436.65	152.41	170.06	394.62
371	1.74	0.005	437.44	152.58	170.32	395.56
372	1.745	0.005	438.24	152.75	170.58	396.49
373	1.75	0.005	439.03	152.92	170.83	397.42
374	1.755	0.005	439.83	153.09	171.09	398.35
375	1.76	0.005	440.63	153.26	171.35	399.29
376	1.765	0.005	441.42	153.44	171.61	400.22
377	1.77	0.005	442.22	153.61	171.87	401.15
378	1.775	0.005	443.01	153.78	172.13	402.08
379	1.78	0.005	443.81	153.95	172.39	403.01
380	1.785	0.005	444.60	154.13	172.65	403.94
381	1.79	0.005	445.39	154.30	172.92	404.87
382	1.795	0.005	446.19	154.47	173.18	405.80
383	1.8	0.005	446.98	154.65	173.44	406.73
384	1.805	0.005	447.78	154.82	173.70	407.66
385	1.81	0.005	448.57	155.00	173.97	408.59
386	1.815	0.005	449.37	155.17	174.23	409.52
387	1.82	0.005	450.16	155.35	174.50	410.44
388	1.825	0.005	450.96	155.53	174.76	411.37
389	1.83	0.005	451.75	155.70	175.03	412.30
390	1.835	0.005	452.54	155.88	175.30	413.22
391	1.84	0.005	453.34	156.06	175.56	414.15
392	1.845	0.005	454.13	156.23	175.83	415.08
393	1.85	0.005	454.93	156.41	176.10	416.00
394	1.855	0.005	455.72	156.59	176.37	416.93
395	1.86	0.005	456.51	156.77	176.64	417.85
396	1.865	0.005	457.31	156.95	176.91	418.77
397	1.87	0.005	458.10	157.13	177.18	419.70
398	1.875	0.005	458.89	157.31	177.45	420.62
399	1.88	0.005	459.69	157.49	177.72	421.54
400	1.885	0.005	460.48	157.67	177.99	422.46
401	1.89	0.005	461.27	157.85	178.26	423.38
402	1.895	0.005	462.07	158.03	178.54	424.30
403	1.9	0.005	462.86	158.21	178.81	425.22
404	1.905	0.005	463.65	158.39	179.08	426.14
405	1.91	0.005	464.45	158.58	179.36	427.06

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
406	1.915	0.005	465.24	158.76	179.63	427.98
407	1.92	0.005	466.03	158.94	179.91	428.90
408	1.925	0.005	466.83	159.13	180.18	429.82
409	1.93	0.005	467.62	159.31	180.46	430.74
410	1.935	0.005	468.41	159.49	180.74	431.65
411	1.94	0.005	469.20	159.68	181.01	432.57
412	1.945	0.005	470.00	159.86	181.29	433.49
413	1.95	0.005	470.79	160.05	181.57	434.40
414	1.955	0.005	471.58	160.24	181.85	435.32
415	1.96	0.005	472.38	160.42	182.13	436.23
416	1.965	0.005	473.17	160.61	182.41	437.15
417	1.97	0.005	473.96	160.80	182.69	438.06
418	1.975	0.005	474.75	160.98	182.97	438.97
419	1.98	0.005	475.55	161.17	183.25	439.89
420	1.985	0.005	476.34	161.36	183.53	440.80
421	1.99	0.005	477.13	161.55	183.82	441.71
422	1.995	0.005	477.92	161.74	184.10	442.62
423	2	0.005	478.72	161.92	184.38	443.53
424	2.005	0.005	479.51	162.11	184.67	444.44
425	2.01	0.005	480.30	162.30	184.95	445.35
426	2.015	0.005	481.09	162.49	185.24	446.26
427	2.02	0.005	481.88	162.68	185.52	447.17
428	2.025	0.005	482.68	162.88	185.81	448.08
429	2.03	0.005	483.47	163.07	186.09	448.98
430	2.035	0.005	484.26	163.26	186.38	449.89
431	2.04	0.005	485.05	163.45	186.67	450.80
432	2.045	0.005	485.85	163.64	186.96	451.70
433	2.05	0.005	486.64	163.84	187.24	452.61
434	2.055	0.005	487.43	164.03	187.53	453.52
435	2.06	0.005	488.22	164.22	187.82	454.42
436	2.065	0.005	489.01	164.42	188.11	455.32
437	2.07	0.005	489.80	164.61	188.40	456.23
438	2.075	0.005	490.60	164.80	188.69	457.13
439	2.08	0.005	491.39	165.00	188.99	458.03
440	2.085	0.005	492.18	165.20	189.28	458.94
441	2.09	0.005	492.97	165.39	189.57	459.84
442	2.095	0.005	493.76	165.59	189.86	460.74
443	2.1	0.005	494.56	165.78	190.16	461.64
444	2.105	0.005	495.35	165.98	190.45	462.54
445	2.11	0.005	496.14	166.18	190.75	463.44
446	2.115	0.005	496.93	166.37	191.04	464.34

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
447	2.12	0.005	497.72	166.57	191.34	465.24
448	2.125	0.005	498.51	166.77	191.63	466.13
449	2.13	0.005	499.31	166.97	191.93	467.03
450	2.135	0.005	500.10	167.17	192.22	467.93
451	2.14	0.005	500.89	167.37	192.52	468.83
452	2.145	0.005	501.68	167.57	192.82	469.72
453	2.15	0.005	502.47	167.77	193.12	470.62
454	2.155	0.005	503.26	167.97	193.42	471.51
455	2.16	0.005	504.05	168.17	193.72	472.41
456	2.165	0.005	504.84	168.37	194.02	473.30
457	2.17	0.005	505.64	168.57	194.32	474.20
458	2.175	0.005	506.43	168.77	194.62	475.09
459	2.18	0.005	507.22	168.97	194.92	475.98
460	2.185	0.005	508.01	169.18	195.22	476.87
461	2.19	0.005	508.80	169.38	195.52	477.77
462	2.195	0.005	509.59	169.58	195.83	478.66
463	2.2	0.005	510.38	169.79	196.13	479.55
464	2.205	0.005	511.17	169.99	196.43	480.44
465	2.21	0.005	511.97	170.20	196.74	481.33
466	2.215	0.005	512.76	170.40	197.04	482.22
467	2.22	0.005	513.55	170.61	197.35	483.11
468	2.225	0.005	514.34	170.81	197.65	483.99
469	2.23	0.005	515.13	171.02	197.96	484.88
470	2.235	0.005	515.92	171.22	198.27	485.77
471	2.24	0.005	516.71	171.43	198.57	486.66
472	2.245	0.005	517.50	171.64	198.88	487.54
473	2.25	0.005	518.29	171.84	199.19	488.43
474	2.255	0.005	519.08	172.05	199.50	489.32
475	2.26	0.005	519.87	172.26	199.81	490.20
476	2.265	0.005	520.66	172.47	200.12	491.08
477	2.27	0.005	521.46	172.68	200.43	491.97
478	2.275	0.005	522.25	172.88	200.74	492.85
479	2.28	0.005	523.04	173.09	201.05	493.74
480	2.285	0.005	523.83	173.30	201.36	494.62
481	2.29	0.005	524.62	173.51	201.67	495.50
482	2.295	0.005	525.41	173.72	201.98	496.38
483	2.3	0.005	526.20	173.93	202.30	497.26
484	2.305	0.005	526.99	174.15	202.61	498.14
485	2.31	0.005	527.78	174.36	202.92	499.02
486	2.315	0.005	528.57	174.57	203.24	499.90
487	2.32	0.005	529.36	174.78	203.55	500.78

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
488	2.325	0.005	530.15	174.99	203.87	501.66
489	2.33	0.005	530.94	175.21	204.18	502.54
490	2.335	0.005	531.73	175.42	204.50	503.42
491	2.34	0.005	532.52	175.63	204.82	504.30
492	2.345	0.005	533.31	175.85	205.13	505.17
493	2.35	0.005	534.10	176.06	205.45	506.05
494	2.355	0.005	534.89	176.28	205.77	506.93
495	2.36	0.005	535.68	176.49	206.09	507.80
496	2.365	0.005	536.47	176.71	206.41	508.68
497	2.37	0.005	537.26	176.92	206.73	509.55
498	2.375	0.005	538.05	177.14	207.05	510.43
499	2.38	0.005	538.84	177.35	207.37	511.30
500	2.385	0.005	539.63	177.57	207.69	512.18
501	2.39	0.005	540.42	177.79	208.01	513.05
502	2.395	0.005	541.21	178.01	208.33	513.92
503	2.4	0.005	542.00	178.22	208.65	514.79
504	2.405	0.005	542.79	178.44	208.98	515.67
505	2.41	0.005	543.58	178.66	209.30	516.54
506	2.415	0.005	544.37	178.88	209.62	517.41
507	2.42	0.005	545.16	179.10	209.95	518.28
508	2.425	0.005	545.95	179.32	210.27	519.15
509	2.43	0.005	546.74	179.54	210.60	520.02
510	2.435	0.005	547.53	179.76	210.92	520.89
511	2.44	0.005	548.32	179.98	211.25	521.76
512	2.445	0.005	549.11	180.20	211.58	522.62
513	2.45	0.005	549.89	180.42	211.90	523.49
514	2.455	0.005	550.68	180.64	212.23	524.36
515	2.46	0.005	551.47	180.86	212.56	525.23
516	2.465	0.005	552.26	181.09	212.89	526.09
517	2.47	0.005	553.05	181.31	213.22	526.96
518	2.475	0.005	553.84	181.53	213.54	527.83
519	2.48	0.005	554.63	181.76	213.87	528.69
520	2.485	0.005	555.42	181.98	214.20	529.56
521	2.49	0.005	556.21	182.20	214.54	530.42
522	2.495	0.005	557.00	182.43	214.87	531.29
523	2.5	0.005	557.78	182.65	215.20	532.15
524	2.505	0.005	558.57	182.88	215.53	533.01
525	2.51	0.005	559.36	183.10	215.86	533.88
526	2.515	0.005	560.15	183.33	216.20	534.74
527	2.52	0.005	560.94	183.56	216.53	535.60
528	2.525	0.005	561.73	183.78	216.86	536.46

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
529	2.53	0.005	562.52	184.01	217.20	537.33
530	2.535	0.005	563.31	184.24	217.53	538.19
531	2.54	0.005	564.09	184.46	217.87	539.05
532	2.545	0.005	564.88	184.69	218.20	539.91
533	2.55	0.005	565.67	184.92	218.54	540.77
534	2.555	0.005	566.46	185.15	218.88	541.63
535	2.56	0.005	567.25	185.38	219.21	542.49
536	2.565	0.005	568.04	185.61	219.55	543.35
537	2.57	0.005	568.82	185.84	219.89	544.20
538	2.575	0.005	569.61	186.07	220.23	545.06
539	2.58	0.005	570.40	186.30	220.57	545.92
540	2.585	0.005	571.19	186.53	220.91	546.78
541	2.59	0.005	571.98	186.76	221.25	547.63
542	2.595	0.005	572.76	186.99	221.59	548.49
543	2.6	0.005	573.55	187.22	221.93	549.35
544	2.605	0.005	574.34	187.45	222.27	550.20
545	2.61	0.005	575.13	187.69	222.61	551.06
546	2.615	0.005	575.91	187.92	222.95	551.91
547	2.62	0.005	576.70	188.15	223.29	552.77
548	2.625	0.005	577.49	188.38	223.64	553.62
549	2.63	0.005	578.28	188.62	223.98	554.48
550	2.635	0.005	579.06	188.85	224.32	555.33
551	2.64	0.005	579.85	189.09	224.67	556.18
552	2.645	0.005	580.64	189.32	225.01	557.04
553	2.65	0.005	581.43	189.56	225.36	557.89
554	2.655	0.005	582.21	189.79	225.70	558.74
555	2.66	0.005	583.00	190.03	226.05	559.59
556	2.665	0.005	583.79	190.26	226.40	560.44
557	2.67	0.005	584.57	190.50	226.74	561.30
558	2.675	0.005	585.36	190.74	227.09	562.15
559	2.68	0.005	586.15	190.97	227.44	563.00
560	2.685	0.005	586.93	191.21	227.79	563.85
561	2.69	0.005	587.72	191.45	228.14	564.70
562	2.695	0.005	588.51	191.69	228.49	565.55
563	2.7	0.005	589.29	191.93	228.83	566.39
564	2.705	0.005	590.08	192.17	229.19	567.24
565	2.71	0.005	590.87	192.40	229.54	568.09
566	2.715	0.005	591.65	192.64	229.89	568.94
567	2.72	0.005	592.44	192.88	230.24	569.79
568	2.725	0.005	593.23	193.12	230.59	570.64
569	2.73	0.005	594.01	193.36	230.94	571.48

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
570	2.735	0.005	594.80	193.61	231.29	572.33
571	2.74	0.005	595.59	193.85	231.65	573.18
572	2.745	0.005	596.37	194.09	232.00	574.02
573	2.75	0.005	597.16	194.33	232.36	574.87
574	2.755	0.005	597.94	194.57	232.71	575.71
575	2.76	0.005	598.73	194.81	233.06	576.56
576	2.765	0.005	599.51	195.06	233.42	577.40
577	2.77	0.005	600.30	195.30	233.78	578.25
578	2.775	0.005	601.09	195.54	234.13	579.09
579	2.78	0.005	601.87	195.79	234.49	579.94
580	2.785	0.005	602.66	196.03	234.85	580.78
581	2.79	0.005	603.44	196.28	235.20	581.62
582	2.795	0.005	604.23	196.52	235.56	582.46
583	2.8	0.005	605.01	196.77	235.92	583.31
584	2.805	0.005	605.80	197.01	236.28	584.15
585	2.81	0.005	606.58	197.26	236.64	584.99
586	2.815	0.005	607.37	197.50	237.00	585.83
587	2.82	0.005	608.15	197.75	237.36	586.67
588	2.825	0.005	608.94	198.00	237.72	587.52
589	2.83	0.005	609.72	198.24	238.08	588.36
590	2.835	0.005	610.51	198.49	238.44	589.20
591	2.84	0.005	611.29	198.74	238.80	590.04
592	2.845	0.005	612.08	198.99	239.16	590.88
593	2.85	0.005	612.86	199.24	239.53	591.72
594	2.855	0.005	613.65	199.49	239.89	592.56
595	2.86	0.005	614.43	199.73	240.25	593.39
596	2.865	0.005	615.22	199.98	240.62	594.23
597	2.87	0.005	616.00	200.23	240.98	595.07
598	2.875	0.005	616.79	200.48	241.35	595.91
599	2.88	0.005	617.57	200.74	241.71	596.75
600	2.885	0.005	618.35	200.99	242.08	597.58
601	2.89	0.005	619.14	201.24	242.44	598.42
602	2.895	0.005	619.92	201.49	242.81	599.26
603	2.9	0.005	620.71	201.74	243.18	600.09
604	2.905	0.005	621.49	201.99	243.55	600.93
605	2.91	0.005	622.27	202.25	243.91	601.77
606	2.915	0.005	623.06	202.50	244.28	602.60
607	2.92	0.005	623.84	202.75	244.65	603.44
608	2.925	0.005	624.62	203.00	245.02	604.27
609	2.93	0.005	625.41	203.26	245.39	605.11
610	2.935	0.005	626.19	203.51	245.76	605.94

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
611	2.94	0.005	626.97	203.77	246.13	606.78
612	2.945	0.005	627.76	204.02	246.50	607.61
613	2.95	0.005	628.54	204.28	246.87	608.44
614	2.955	0.005	629.32	204.53	247.24	609.28
615	2.96	0.005	630.11	204.79	247.61	610.11
616	2.965	0.005	630.89	205.04	247.99	610.94
617	2.97	0.005	631.67	205.30	248.36	611.78
618	2.975	0.005	632.46	205.56	248.73	612.61
619	2.98	0.005	633.24	205.81	249.11	613.44
620	2.985	0.005	634.02	206.07	249.48	614.27
621	2.99	0.005	634.80	206.33	249.85	615.10
622	2.995	0.005	635.59	206.59	250.23	615.94
623	3	0.005	636.37	206.85	250.61	616.77
624	3.005	0.005	637.15	207.10	250.98	617.60
625	3.01	0.005	637.93	207.36	251.36	618.43
626	3.015	0.005	638.72	207.62	251.73	619.26
627	3.02	0.005	639.50	207.88	252.11	620.09
628	3.025	0.005	640.28	208.14	252.49	620.92
629	3.03	0.005	641.06	208.40	252.87	621.75
630	3.035	0.005	641.84	208.66	253.24	622.58
631	3.04	0.005	642.63	208.93	253.62	623.41
632	3.045	0.005	643.41	209.19	254.00	624.23
633	3.05	0.005	644.19	209.45	254.38	625.06
634	3.055	0.005	644.97	209.71	254.76	625.89
635	3.06	0.005	645.75	209.97	255.14	626.72
636	3.065	0.005	646.53	210.23	255.52	627.55
637	3.07	0.005	647.32	210.50	255.90	628.37
638	3.075	0.005	648.10	210.76	256.28	629.20
639	3.08	0.005	648.88	211.02	256.67	630.03
640	3.085	0.005	649.66	211.29	257.05	630.85
641	3.09	0.005	650.44	211.55	257.43	631.68
642	3.095	0.005	651.22	211.82	257.82	632.51
643	3.1	0.005	652.00	212.08	258.20	633.33
644	3.105	0.005	652.78	212.35	258.58	634.16
645	3.11	0.005	653.56	212.61	258.97	634.98
646	3.115	0.005	654.35	212.88	259.35	635.81
647	3.12	0.005	655.13	213.14	259.74	636.63
648	3.125	0.005	655.91	213.41	260.12	637.46
649	3.13	0.005	656.69	213.68	260.51	638.28
650	3.135	0.005	657.47	213.95	260.89	639.11
651	3.14	0.005	658.25	214.21	261.28	639.93

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
652	3.145	0.005	659.03	214.48	261.67	640.75
653	3.15	0.005	659.81	214.75	262.06	641.58
654	3.155	0.005	660.59	215.02	262.44	642.40
655	3.16	0.005	661.37	215.29	262.83	643.22
656	3.165	0.005	662.15	215.55	263.22	644.05
657	3.17	0.005	662.93	215.82	263.61	644.87
658	3.175	0.005	663.71	216.09	264.00	645.69
659	3.18	0.005	664.49	216.36	264.39	646.51
660	3.185	0.005	665.27	216.63	264.78	647.33
661	3.19	0.005	666.05	216.90	265.17	648.16
662	3.195	0.005	666.83	217.18	265.57	648.98
663	3.2	0.005	667.61	217.45	265.96	649.80
664	3.205	0.005	668.38	217.72	266.35	650.62
665	3.21	0.005	669.16	217.99	266.74	651.44
666	3.215	0.005	669.94	218.26	267.14	652.26
667	3.22	0.005	670.72	218.53	267.53	653.08
668	3.225	0.005	671.50	218.81	267.92	653.90
669	3.23	0.005	672.28	219.08	268.32	654.72
670	3.235	0.005	673.06	219.35	268.71	655.54
671	3.24	0.005	673.84	219.63	269.11	656.36
672	3.245	0.005	674.62	219.90	269.50	657.18
673	3.25	0.005	675.39	220.18	269.90	658.00
674	3.255	0.005	676.17	220.45	270.30	658.81
675	3.26	0.005	676.95	220.73	270.69	659.63
676	3.265	0.005	677.73	221.00	271.09	660.45
677	3.27	0.005	678.51	221.28	271.49	661.27
678	3.275	0.005	679.29	221.55	271.89	662.09
679	3.28	0.005	680.06	221.83	272.29	662.90
680	3.285	0.005	680.84	222.11	272.68	663.72
681	3.29	0.005	681.62	222.38	273.08	664.54
682	3.295	0.005	682.40	222.66	273.48	665.35
683	3.3	0.005	683.18	222.94	273.88	666.17
684	3.305	0.005	683.95	223.22	274.28	666.99
685	3.31	0.005	684.73	223.49	274.69	667.80
686	3.315	0.005	685.51	223.77	275.09	668.62
687	3.32	0.005	686.29	224.05	275.49	669.44
688	3.325	0.005	687.06	224.33	275.89	670.25
689	3.33	0.005	687.84	224.61	276.29	671.07
690	3.335	0.005	688.62	224.89	276.70	671.88
691	3.34	0.005	689.39	225.17	277.10	672.70
692	3.345	0.005	690.17	225.45	277.51	673.51

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
693	3.35	0.005	690.95	225.73	277.91	674.32
694	3.355	0.005	691.73	226.01	278.31	675.14
695	3.36	0.005	692.50	226.29	278.72	675.95
696	3.365	0.005	693.28	226.57	279.13	676.77
697	3.37	0.005	694.06	226.86	279.53	677.58
698	3.375	0.005	694.83	227.14	279.94	678.39
699	3.38	0.005	695.61	227.42	280.35	679.21
700	3.385	0.005	696.38	227.70	280.75	680.02
701	3.39	0.005	697.16	227.99	281.16	680.83
702	3.395	0.005	697.94	228.27	281.57	681.64
703	3.4	0.005	698.71	228.55	281.98	682.46
704	3.405	0.005	699.49	228.84	282.39	683.27
705	3.41	0.005	700.27	229.12	282.80	684.08
706	3.415	0.005	701.04	229.41	283.21	684.89
707	3.42	0.005	701.82	229.69	283.62	685.70
708	3.425	0.005	702.59	229.98	284.03	686.52
709	3.43	0.005	703.37	230.26	284.44	687.33
710	3.435	0.005	704.14	230.55	284.85	688.14
711	3.44	0.005	704.92	230.84	285.26	688.95
712	3.445	0.005	705.70	231.12	285.67	689.76
713	3.45	0.005	706.47	231.41	286.09	690.57
714	3.455	0.005	707.25	231.70	286.50	691.38
715	3.46	0.005	708.02	231.98	286.91	692.19
716	3.465	0.005	708.80	232.27	287.33	693.00
717	3.47	0.005	709.57	232.56	287.74	693.81
718	3.475	0.005	710.35	232.85	288.15	694.62
719	3.48	0.005	711.12	233.14	288.57	695.43
720	3.485	0.005	711.90	233.43	288.98	696.24
721	3.49	0.005	712.67	233.71	289.40	697.04
722	3.495	0.005	713.45	234.00	289.82	697.85
723	3.5	0.005	714.22	234.29	290.23	698.66
724	3.505	0.005	714.99	234.58	290.65	699.47
725	3.51	0.005	715.77	234.88	291.07	700.28
726	3.515	0.005	716.54	235.17	291.49	701.09
727	3.52	0.005	717.32	235.46	291.90	701.89
728	3.525	0.005	718.09	235.75	292.32	702.70
729	3.53	0.005	718.87	236.04	292.74	703.51
730	3.535	0.005	719.64	236.33	293.16	704.32
731	3.54	0.005	720.41	236.62	293.58	705.12
732	3.545	0.005	721.19	236.92	294.00	705.93
733	3.55	0.005	721.96	237.21	294.42	706.74

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
734	3.555	0.005	722.73	237.50	294.84	707.54
735	3.56	0.005	723.51	237.80	295.26	708.35
736	3.565	0.005	724.28	238.09	295.69	709.15
737	3.57	0.005	725.06	238.38	296.11	709.96
738	3.575	0.005	725.83	238.68	296.53	710.77
739	3.58	0.005	726.60	238.97	296.95	711.57
740	3.585	0.005	727.38	239.27	297.38	712.38
741	3.59	0.005	728.15	239.56	297.80	713.18
742	3.595	0.005	728.92	239.86	298.23	713.99
743	3.6	0.005	729.69	240.16	298.65	714.79
744	3.605	0.005	730.47	240.45	299.08	715.60
745	3.61	0.005	731.24	240.75	299.50	716.40
746	3.615	0.005	732.01	241.05	299.93	717.20
747	3.62	0.005	732.79	241.34	300.35	718.01
748	3.625	0.005	733.56	241.64	300.78	718.81
749	3.63	0.005	734.33	241.94	301.21	719.62
750	3.635	0.005	735.10	242.24	301.63	720.42
751	3.64	0.005	735.88	242.53	302.06	721.22
752	3.645	0.005	736.65	242.83	302.49	722.03
753	3.65	0.005	737.42	243.13	302.92	722.83
754	3.655	0.005	738.19	243.43	303.35	723.63
755	3.66	0.005	738.96	243.73	303.78	724.43
756	3.665	0.005	739.74	244.03	304.21	725.24
757	3.67	0.005	740.51	244.33	304.64	726.04
758	3.675	0.005	741.28	244.63	305.07	726.84
759	3.68	0.005	742.05	244.93	305.50	727.64
760	3.685	0.005	742.82	245.23	305.93	728.44
761	3.69	0.005	743.60	245.53	306.36	729.25
762	3.695	0.005	744.37	245.84	306.79	730.05
763	3.7	0.005	745.14	246.14	307.22	730.85
764	3.705	0.005	745.91	246.44	307.66	731.65
765	3.71	0.005	746.68	246.74	308.09	732.45
766	3.715	0.005	747.45	247.05	308.52	733.25
767	3.72	0.005	748.22	247.35	308.96	734.05
768	3.725	0.005	748.99	247.65	309.39	734.85
769	3.73	0.005	749.77	247.96	309.83	735.65
770	3.735	0.005	750.54	248.26	310.26	736.45
771	3.74	0.005	751.31	248.56	310.70	737.25
772	3.745	0.005	752.08	248.87	311.13	738.05
773	3.75	0.005	752.85	249.17	311.57	738.85
774	3.755	0.005	753.62	249.48	312.01	739.65

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
775	3.76	0.005	754.39	249.78	312.44	740.45
776	3.765	0.005	755.16	250.09	312.88	741.25
777	3.77	0.005	755.93	250.40	313.32	742.05
778	3.775	0.005	756.70	250.70	313.76	742.85
779	3.78	0.005	757.47	251.01	314.19	743.65
780	3.785	0.005	758.24	251.32	314.63	744.44
781	3.79	0.005	759.01	251.62	315.07	745.24
782	3.795	0.005	759.78	251.93	315.51	746.04
783	3.8	0.005	760.55	252.24	315.95	746.84
784	3.805	0.005	761.32	252.55	316.39	747.64
785	3.81	0.005	762.09	252.86	316.83	748.43
786	3.815	0.005	762.86	253.16	317.27	749.23
787	3.82	0.005	763.63	253.47	317.72	750.03
788	3.825	0.005	764.40	253.78	318.16	750.83
789	3.83	0.005	765.17	254.09	318.60	751.62
790	3.835	0.005	765.94	254.40	319.04	752.42
791	3.84	0.005	766.71	254.71	319.49	753.22
792	3.845	0.005	767.48	255.02	319.93	754.01
793	3.85	0.005	768.24	255.33	320.37	754.81
794	3.855	0.005	769.01	255.64	320.82	755.61
795	3.86	0.005	769.78	255.96	321.26	756.40
796	3.865	0.005	770.55	256.27	321.71	757.20
797	3.87	0.005	771.32	256.58	322.15	757.99
798	3.875	0.005	772.09	256.89	322.60	758.79
799	3.88	0.005	772.86	257.20	323.04	759.58
800	3.885	0.005	773.63	257.52	323.49	760.38
801	3.89	0.005	774.39	257.83	323.94	761.17
802	3.895	0.005	775.16	258.14	324.38	761.97
803	3.9	0.005	775.93	258.46	324.83	762.76
804	3.905	0.005	776.70	258.77	325.28	763.56
805	3.91	0.005	777.47	259.08	325.73	764.35
806	3.915	0.005	778.24	259.40	326.18	765.15
807	3.92	0.005	779.00	259.71	326.63	765.94
808	3.925	0.005	779.77	260.03	327.07	766.73
809	3.93	0.005	780.54	260.34	327.52	767.53
810	3.935	0.005	781.31	260.66	327.97	768.32
811	3.94	0.005	782.08	260.98	328.43	769.12
812	3.945	0.005	782.84	261.29	328.88	769.91
813	3.95	0.005	783.61	261.61	329.33	770.70
814	3.955	0.005	784.38	261.93	329.78	771.49
815	3.96	0.005	785.15	262.24	330.23	772.29

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
816	3.965	0.005	785.91	262.56	330.68	773.08
817	3.97	0.005	786.68	262.88	331.14	773.87
818	3.975	0.005	787.45	263.20	331.59	774.67
819	3.98	0.005	788.21	263.51	332.04	775.46
820	3.985	0.005	788.98	263.83	332.50	776.25
821	3.99	0.005	789.75	264.15	332.95	777.04
822	3.995	0.005	790.51	264.47	333.40	777.83
823	4	0.005	791.28	264.79	333.86	778.62
824	4.005	0.005	792.05	265.11	334.31	779.42
825	4.01	0.005	792.82	265.43	334.77	780.21
826	4.015	0.005	793.58	265.75	335.23	781.00
827	4.02	0.005	794.35	266.07	335.68	781.79
828	4.025	0.005	795.11	266.39	336.14	782.58
829	4.03	0.005	795.88	266.71	336.60	783.37
830	4.035	0.005	796.65	267.04	337.05	784.16
831	4.04	0.005	797.41	267.36	337.51	784.95
832	4.045	0.005	798.18	267.68	337.97	785.74
833	4.05	0.005	798.95	268.00	338.43	786.53
834	4.055	0.005	799.71	268.33	338.89	787.32
835	4.06	0.005	800.48	268.65	339.35	788.11
836	4.065	0.005	801.24	268.97	339.81	788.90
837	4.07	0.005	802.01	269.30	340.27	789.69
838	4.075	0.005	802.77	269.62	340.73	790.48
839	4.08	0.005	803.54	269.94	341.19	791.27
840	4.085	0.005	804.30	270.27	341.65	792.06
841	4.09	0.005	805.07	270.59	342.11	792.85
842	4.095	0.005	805.84	270.92	342.57	793.64
843	4.1	0.005	806.60	271.25	343.03	794.43
844	4.105	0.005	807.37	271.57	343.50	795.22
845	4.11	0.005	808.13	271.90	343.96	796.00
846	4.115	0.005	808.90	272.22	344.42	796.79
847	4.12	0.005	809.66	272.55	344.89	797.58
848	4.125	0.005	810.43	272.88	345.35	798.37
849	4.13	0.005	811.19	273.20	345.81	799.16
850	4.135	0.005	811.96	273.53	346.28	799.94
851	4.14	0.005	812.72	273.86	346.74	800.73
852	4.145	0.005	813.48	274.19	347.21	801.52
853	4.15	0.005	814.25	274.52	347.67	802.31
854	4.155	0.005	815.01	274.85	348.14	803.09
855	4.16	0.005	815.78	275.18	348.61	803.88
856	4.165	0.005	816.54	275.50	349.07	804.67

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
857	4.17	0.005	817.31	275.83	349.54	805.45
858	4.175	0.005	818.07	276.16	350.01	806.24
859	4.18	0.005	818.83	276.49	350.48	807.03
860	4.185	0.005	819.60	276.83	350.94	807.81
861	4.19	0.005	820.36	277.16	351.41	808.60
862	4.195	0.005	821.13	277.49	351.88	809.39
863	4.2	0.005	821.89	277.82	352.35	810.17
864	4.205	0.005	822.65	278.15	352.82	810.96
865	4.21	0.005	823.42	278.48	353.29	811.74
866	4.215	0.005	824.18	278.82	353.76	812.53
867	4.22	0.005	824.94	279.15	354.23	813.31
868	4.225	0.005	825.71	279.48	354.70	814.10
869	4.23	0.005	826.47	279.81	355.17	814.88
870	4.235	0.005	827.23	280.15	355.64	815.67
871	4.24	0.005	828.00	280.48	356.12	816.45
872	4.245	0.005	828.76	280.82	356.59	817.24
873	4.25	0.005	829.52	281.15	357.06	818.02
874	4.255	0.005	830.28	281.48	357.53	818.81
875	4.26	0.005	831.05	281.82	358.01	819.59
876	4.265	0.005	831.81	282.16	358.48	820.37
877	4.27	0.005	832.57	282.49	358.96	821.16
878	4.275	0.005	833.34	282.83	359.43	821.94
879	4.28	0.005	834.10	283.16	359.91	822.73
880	4.285	0.005	834.86	283.50	360.38	823.51
881	4.29	0.005	835.62	283.84	360.86	824.29
882	4.295	0.005	836.38	284.17	361.33	825.08
883	4.3	0.005	837.15	284.51	361.81	825.86
884	4.305	0.005	837.91	284.85	362.28	826.64
885	4.31	0.005	838.67	285.19	362.76	827.43
886	4.315	0.005	839.43	285.52	363.24	828.21
887	4.32	0.005	840.19	285.86	363.72	828.99
888	4.325	0.005	840.96	286.20	364.19	829.77
889	4.33	0.005	841.72	286.54	364.67	830.56
890	4.335	0.005	842.48	286.88	365.15	831.34
891	4.34	0.005	843.24	287.22	365.63	832.12
892	4.345	0.005	844.00	287.56	366.11	832.90
893	4.35	0.005	844.76	287.90	366.59	833.68
894	4.355	0.005	845.53	288.24	367.07	834.47
895	4.36	0.005	846.29	288.58	367.55	835.25
896	4.365	0.005	847.05	288.92	368.03	836.03
897	4.37	0.005	847.81	289.26	368.51	836.81

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
898	4.375	0.005	848.57	289.61	368.99	837.59
899	4.38	0.005	849.33	289.95	369.47	838.37
900	4.385	0.005	850.09	290.29	369.95	839.15
901	4.39	0.005	850.85	290.63	370.44	839.93
902	4.395	0.005	851.61	290.98	370.92	840.71
903	4.4	0.005	852.37	291.32	371.40	841.50
904	4.405	0.005	853.13	291.66	371.89	842.28
905	4.41	0.005	853.89	292.01	372.37	843.06
906	4.415	0.005	854.66	292.35	372.85	843.84
907	4.42	0.005	855.42	292.69	373.34	844.62
908	4.425	0.005	856.18	293.04	373.82	845.40
909	4.43	0.005	856.94	293.38	374.31	846.18
910	4.435	0.005	857.70	293.73	374.79	846.96
911	4.44	0.005	858.46	294.07	375.28	847.74
912	4.445	0.005	859.22	294.42	375.76	848.51
913	4.45	0.005	859.98	294.77	376.25	849.29
914	4.455	0.005	860.74	295.11	376.74	850.07
915	4.46	0.005	861.50	295.46	377.22	850.85
916	4.465	0.005	862.26	295.81	377.71	851.63
917	4.47	0.005	863.01	296.15	378.20	852.41
918	4.475	0.005	863.77	296.50	378.69	853.19
919	4.48	0.005	864.53	296.85	379.18	853.97
920	4.485	0.005	865.29	297.20	379.66	854.75
921	4.49	0.005	866.05	297.54	380.15	855.52
922	4.495	0.005	866.81	297.89	380.64	856.30
923	4.5	0.005	867.57	298.24	381.13	857.08
924	4.505	0.005	868.33	298.59	381.62	857.86
925	4.51	0.005	869.09	298.94	382.11	858.64
926	4.515	0.005	869.85	299.29	382.60	859.41
927	4.52	0.005	870.61	299.64	383.09	860.19
928	4.525	0.005	871.37	299.99	383.59	860.97
929	4.53	0.005	872.12	300.34	384.08	861.75
930	4.535	0.005	872.88	300.69	384.57	862.52
931	4.54	0.005	873.64	301.04	385.06	863.30
932	4.545	0.005	874.40	301.40	385.55	864.08
933	4.55	0.005	875.16	301.75	386.05	864.85
934	4.555	0.005	875.92	302.10	386.54	865.63
935	4.56	0.005	876.67	302.45	387.03	866.41
936	4.565	0.005	877.43	302.80	387.53	867.18
937	4.57	0.005	878.19	303.16	388.02	867.96
938	4.575	0.005	878.95	303.51	388.52	868.73

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
939	4.58	0.005	879.71	303.86	389.01	869.51
940	4.585	0.005	880.46	304.22	389.51	870.29
941	4.59	0.005	881.22	304.57	390.00	871.06
942	4.595	0.005	881.98	304.93	390.50	871.84
943	4.6	0.005	882.74	305.28	390.99	872.61
944	4.605	0.005	883.50	305.63	391.49	873.39
945	4.61	0.005	884.25	305.99	391.99	874.16
946	4.615	0.005	885.01	306.35	392.48	874.94
947	4.62	0.005	885.77	306.70	392.98	875.71
948	4.625	0.005	886.52	307.06	393.48	876.49
949	4.63	0.005	887.28	307.41	393.98	877.26
950	4.635	0.005	888.04	307.77	394.48	878.04
951	4.64	0.005	888.80	308.13	394.98	878.81
952	4.645	0.005	889.55	308.48	395.47	879.59
953	4.65	0.005	890.31	308.84	395.97	880.36
954	4.655	0.005	891.07	309.20	396.47	881.14
955	4.66	0.005	891.82	309.56	396.97	881.91
956	4.665	0.005	892.58	309.91	397.47	882.69
957	4.67	0.005	893.34	310.27	397.97	883.46
958	4.675	0.005	894.09	310.63	398.48	884.23
959	4.68	0.005	894.85	310.99	398.98	885.01
960	4.685	0.005	895.61	311.35	399.48	885.78
961	4.69	0.005	896.36	311.71	399.98	886.55
962	4.695	0.005	897.12	312.07	400.48	887.33
963	4.7	0.005	897.88	312.43	400.99	888.10
964	4.705	0.005	898.63	312.79	401.49	888.87
965	4.71	0.005	899.39	313.15	401.99	889.65
966	4.715	0.005	900.14	313.51	402.49	890.42
967	4.72	0.005	900.90	313.87	403.00	891.19
968	4.725	0.005	901.65	314.24	403.50	891.96
969	4.73	0.005	902.41	314.60	404.01	892.74
970	4.735	0.005	903.17	314.96	404.51	893.51
971	4.74	0.005	903.92	315.32	405.02	894.28
972	4.745	0.005	904.68	315.68	405.52	895.05
973	4.75	0.005	905.43	316.05	406.03	895.83
974	4.755	0.005	906.19	316.41	406.53	896.60
975	4.76	0.005	906.94	316.77	407.04	897.37
976	4.765	0.005	907.70	317.14	407.55	898.14
977	4.77	0.005	908.45	317.50	408.05	898.91
978	4.775	0.005	909.21	317.87	408.56	899.68
979	4.78	0.005	909.96	318.23	409.07	900.46

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
980	4.785	0.005	910.72	318.60	409.58	901.23
981	4.79	0.005	911.47	318.96	410.09	902.00
982	4.795	0.005	912.23	319.33	410.59	902.77
983	4.8	0.005	912.98	319.69	411.10	903.54
984	4.805	0.005	913.74	320.06	411.61	904.31
985	4.81	0.005	914.49	320.42	412.12	905.08
986	4.815	0.005	915.25	320.79	412.63	905.85
987	4.82	0.005	916.00	321.16	413.14	906.62
988	4.825	0.005	916.76	321.53	413.65	907.39
989	4.83	0.005	917.51	321.89	414.16	908.16
990	4.835	0.005	918.26	322.26	414.67	908.93
991	4.84	0.005	919.02	322.63	415.19	909.70
992	4.845	0.005	919.77	323.00	415.70	910.47
993	4.85	0.005	920.53	323.36	416.21	911.24
994	4.855	0.005	921.28	323.73	416.72	912.01
995	4.86	0.005	922.03	324.10	417.23	912.78
996	4.865	0.005	922.79	324.47	417.75	913.55
997	4.87	0.005	923.54	324.84	418.26	914.32
998	4.875	0.005	924.29	325.21	418.77	915.09
999	4.88	0.005	925.05	325.58	419.29	915.86
1000	4.885	0.005	925.80	325.95	419.80	916.63
1001	4.89	0.005	926.56	326.32	420.32	917.40
1002	4.895	0.005	927.31	326.69	420.83	918.17
1003	4.9	0.005	928.06	327.06	421.35	918.93
1004	4.905	0.005	928.81	327.44	421.86	919.70
1005	4.91	0.005	929.57	327.81	422.38	920.47
1006	4.915	0.005	930.32	328.18	422.89	921.24
1007	4.92	0.005	931.07	328.55	423.41	922.01
1008	4.925	0.005	931.83	328.92	423.92	922.78
1009	4.93	0.005	932.58	329.30	424.44	923.54
1010	4.935	0.005	933.33	329.67	424.96	924.31
1011	4.94	0.005	934.09	330.04	425.48	925.08
1012	4.945	0.005	934.84	330.42	425.99	925.85
1013	4.95	0.005	935.59	330.79	426.51	926.61
1014	4.955	0.005	936.34	331.17	427.03	927.38
1015	4.96	0.005	937.10	331.54	427.55	928.15
1016	4.965	0.005	937.85	331.91	428.07	928.92
1017	4.97	0.005	938.60	332.29	428.59	929.68
1018	4.975	0.005	939.35	332.67	429.11	930.45
1019	4.98	0.005	940.10	333.04	429.63	931.22
1020	4.985	0.005	940.86	333.42	430.15	931.98

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1021	4.99	0.005	941.61	333.79	430.67	932.75
1022	4.995	0.005	942.36	334.17	431.19	933.52
1023	5	0.005	943.11	334.55	431.71	934.28
1024	5.005	0.005	943.86	334.92	432.23	935.05
1025	5.01	0.005	944.62	335.30	432.75	935.82
1026	5.015	0.005	945.37	335.68	433.27	936.58
1027	5.02	0.005	946.12	336.05	433.80	937.35
1028	5.025	0.005	946.87	336.43	434.32	938.11
1029	5.03	0.005	947.62	336.81	434.84	938.88
1030	5.035	0.005	948.37	337.19	435.36	939.65
1031	5.04	0.005	949.12	337.57	435.89	940.41
1032	5.045	0.005	949.87	337.95	436.41	941.18
1033	5.05	0.005	950.63	338.33	436.94	941.94
1034	5.055	0.005	951.38	338.71	437.46	942.71
1035	5.06	0.005	952.13	339.09	437.98	943.47
1036	5.065	0.005	952.88	339.47	438.51	944.24
1037	5.07	0.005	953.63	339.85	439.03	945.00
1038	5.075	0.005	954.38	340.23	439.56	945.77
1039	5.08	0.005	955.13	340.61	440.09	946.53
1040	5.085	0.005	955.88	340.99	440.61	947.30
1041	5.09	0.005	956.63	341.37	441.14	948.06
1042	5.095	0.005	957.38	341.75	441.67	948.83
1043	5.1	0.005	958.13	342.13	442.19	949.59
1044	5.105	0.005	958.88	342.52	442.72	950.36
1045	5.11	0.005	959.63	342.90	443.25	951.12
1046	5.115	0.005	960.38	343.28	443.77	951.88
1047	5.12	0.005	961.13	343.67	444.30	952.65
1048	5.125	0.005	961.88	344.05	444.83	953.41
1049	5.13	0.005	962.63	344.43	445.36	954.18
1050	5.135	0.005	963.38	344.82	445.89	954.94
1051	5.14	0.005	964.13	345.20	446.42	955.70
1052	5.145	0.005	964.88	345.58	446.95	956.47
1053	5.15	0.005	965.63	345.97	447.48	957.23
1054	5.155	0.005	966.38	346.35	448.01	957.99
1055	5.16	0.005	967.13	346.74	448.54	958.76
1056	5.165	0.005	967.88	347.12	449.07	959.52
1057	5.17	0.005	968.63	347.51	449.60	960.28
1058	5.175	0.005	969.38	347.90	450.13	961.04
1059	5.18	0.005	970.13	348.28	450.66	961.81
1060	5.185	0.005	970.88	348.67	451.19	962.57
1061	5.19	0.005	971.63	349.06	451.73	963.33

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1062	5.195	0.005	972.38	349.44	452.26	964.09
1063	5.2	0.005	973.13	349.83	452.79	964.86
1064	5.205	0.005	973.87	350.22	453.32	965.62
1065	5.21	0.005	974.62	350.61	453.86	966.38
1066	5.215	0.005	975.37	350.99	454.39	967.14
1067	5.22	0.005	976.12	351.38	454.93	967.91
1068	5.225	0.005	976.87	351.77	455.46	968.67
1069	5.23	0.005	977.62	352.16	455.99	969.43
1070	5.235	0.005	978.37	352.55	456.53	970.19
1071	5.24	0.005	979.11	352.94	457.06	970.95
1072	5.245	0.005	979.86	353.33	457.60	971.71
1073	5.25	0.005	980.61	353.72	458.13	972.47
1074	5.255	0.005	981.36	354.11	458.67	973.24
1075	5.26	0.005	982.11	354.50	459.21	974.00
1076	5.265	0.005	982.86	354.89	459.74	974.76
1077	5.27	0.005	983.60	355.28	460.28	975.52
1078	5.275	0.005	984.35	355.67	460.82	976.28
1079	5.28	0.005	985.10	356.06	461.35	977.04
1080	5.285	0.005	985.85	356.45	461.89	977.80
1081	5.29	0.005	986.60	356.85	462.43	978.56
1082	5.295	0.005	987.34	357.24	462.97	979.32
1083	5.3	0.005	988.09	357.63	463.51	980.08
1084	5.305	0.005	988.84	358.02	464.04	980.84
1085	5.31	0.005	989.59	358.42	464.58	981.60
1086	5.315	0.005	990.33	358.81	465.12	982.36
1087	5.32	0.005	991.08	359.20	465.66	983.12
1088	5.325	0.005	991.83	359.60	466.20	983.88
1089	5.33	0.005	992.57	359.99	466.74	984.64
1090	5.335	0.005	993.32	360.39	467.28	985.40
1091	5.34	0.005	994.07	360.78	467.82	986.16
1092	5.345	0.005	994.82	361.18	468.36	986.92
1093	5.35	0.005	995.56	361.57	468.90	987.68
1094	5.355	0.005	996.31	361.97	469.45	988.44
1095	5.36	0.005	997.06	362.36	469.99	989.20
1096	5.365	0.005	997.80	362.76	470.53	989.96
1097	5.37	0.005	998.55	363.15	471.07	990.72
1098	5.375	0.005	999.30	363.55	471.61	991.48
1099	5.38	0.005	1000.04	363.95	472.16	992.23
1100	5.385	0.005	1000.79	364.34	472.70	992.99
1101	5.39	0.005	1001.53	364.74	473.24	993.75
1102	5.395	0.005	1002.28	365.14	473.79	994.51

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1103	5.4	0.005	1003.03	365.54	474.33	995.27
1104	5.405	0.005	1003.77	365.93	474.87	996.03
1105	5.41	0.005	1004.52	366.33	475.42	996.78
1106	5.415	0.005	1005.27	366.73	475.96	997.54
1107	5.42	0.005	1006.01	367.13	476.51	998.30
1108	5.425	0.005	1006.76	367.53	477.05	999.06
1109	5.43	0.005	1007.50	367.93	477.60	999.82
1110	5.435	0.005	1008.25	368.33	478.14	1000.57
1111	5.44	0.005	1008.99	368.73	478.69	1001.33
1112	5.445	0.005	1009.74	369.13	479.24	1002.09
1113	5.45	0.005	1010.49	369.53	479.78	1002.85
1114	5.455	0.005	1011.23	369.93	480.33	1003.60
1115	5.46	0.005	1011.98	370.33	480.88	1004.36
1116	5.465	0.005	1012.72	370.73	481.43	1005.12
1117	5.47	0.005	1013.47	371.13	481.97	1005.88
1118	5.475	0.005	1014.21	371.53	482.52	1006.63
1119	5.48	0.005	1014.96	371.93	483.07	1007.39
1120	5.485	0.005	1015.70	372.34	483.62	1008.15
1121	5.49	0.005	1016.45	372.74	484.17	1008.90
1122	5.495	0.005	1017.19	373.14	484.72	1009.66
1123	5.5	0.005	1017.94	373.54	485.26	1010.42
1124	5.505	0.005	1018.68	373.95	485.81	1011.17
1125	5.51	0.005	1019.43	374.35	486.36	1011.93
1126	5.515	0.005	1020.17	374.75	486.91	1012.68
1127	5.52	0.005	1020.92	375.16	487.46	1013.44
1128	5.525	0.005	1021.66	375.56	488.02	1014.20
1129	5.53	0.005	1022.40	375.97	488.57	1014.95
1130	5.535	0.005	1023.15	376.37	489.12	1015.71
1131	5.54	0.005	1023.89	376.78	489.67	1016.46
1132	5.545	0.005	1024.64	377.18	490.22	1017.22
1133	5.55	0.005	1025.38	377.59	490.77	1017.98
1134	5.555	0.005	1026.13	377.99	491.32	1018.73
1135	5.56	0.005	1026.87	378.40	491.88	1019.49
1136	5.565	0.005	1027.61	378.80	492.43	1020.24
1137	5.57	0.005	1028.36	379.21	492.98	1021.00
1138	5.575	0.005	1029.10	379.62	493.54	1021.75
1139	5.58	0.005	1029.84	380.02	494.09	1022.51
1140	5.585	0.005	1030.59	380.43	494.64	1023.26
1141	5.59	0.005	1031.33	380.84	495.20	1024.02
1142	5.595	0.005	1032.08	381.25	495.75	1024.77
1143	5.6	0.005	1032.82	381.65	496.31	1025.53

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1144	5.605	0.005	1033.56	382.06	496.86	1026.28
1145	5.61	0.005	1034.31	382.47	497.42	1027.03
1146	5.615	0.005	1035.05	382.88	497.97	1027.79
1147	5.62	0.005	1035.79	383.29	498.53	1028.54
1148	5.625	0.005	1036.54	383.70	499.08	1029.30
1149	5.63	0.005	1037.28	384.11	499.64	1030.05
1150	5.635	0.005	1038.02	384.52	500.20	1030.80
1151	5.64	0.005	1038.76	384.93	500.75	1031.56
1152	5.645	0.005	1039.51	385.34	501.31	1032.31
1153	5.65	0.005	1040.25	385.75	501.87	1033.07
1154	5.655	0.005	1040.99	386.16	502.42	1033.82
1155	5.66	0.005	1041.74	386.57	502.98	1034.57
1156	5.665	0.005	1042.48	386.98	503.54	1035.33
1157	5.67	0.005	1043.22	387.39	504.10	1036.08
1158	5.675	0.005	1043.96	387.80	504.66	1036.83
1159	5.68	0.005	1044.70	388.21	505.21	1037.59
1160	5.685	0.005	1045.45	388.63	505.77	1038.34
1161	5.69	0.005	1046.19	389.04	506.33	1039.09
1162	5.695	0.005	1046.93	389.45	506.89	1039.85
1163	5.7	0.005	1047.67	389.86	507.45	1040.60
1164	5.705	0.005	1048.42	390.28	508.01	1041.35
1165	5.71	0.005	1049.16	390.69	508.57	1042.10
1166	5.715	0.005	1049.90	391.10	509.13	1042.86
1167	5.72	0.005	1050.64	391.52	509.69	1043.61
1168	5.725	0.005	1051.38	391.93	510.25	1044.36
1169	5.73	0.005	1052.13	392.35	510.82	1045.11
1170	5.735	0.005	1052.87	392.76	511.38	1045.87
1171	5.74	0.005	1053.61	393.17	511.94	1046.62
1172	5.745	0.005	1054.35	393.59	512.50	1047.37
1173	5.75	0.005	1055.09	394.01	513.06	1048.12
1174	5.755	0.005	1055.83	394.42	513.63	1048.87
1175	5.76	0.005	1056.57	394.84	514.19	1049.62
1176	5.765	0.005	1057.32	395.25	514.75	1050.38
1177	5.77	0.005	1058.06	395.67	515.31	1051.13
1178	5.775	0.005	1058.80	396.09	515.88	1051.88
1179	5.78	0.005	1059.54	396.50	516.44	1052.63
1180	5.785	0.005	1060.28	396.92	517.01	1053.38
1181	5.79	0.005	1061.02	397.34	517.57	1054.13
1182	5.795	0.005	1061.76	397.75	518.13	1054.88
1183	5.8	0.005	1062.50	398.17	518.70	1055.64
1184	5.805	0.005	1063.24	398.59	519.26	1056.39

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1185	5.81	0.005	1063.98	399.01	519.83	1057.14
1186	5.815	0.005	1064.72	399.43	520.40	1057.89
1187	5.82	0.005	1065.46	399.85	520.96	1058.64
1188	5.825	0.005	1066.21	400.26	521.53	1059.39
1189	5.83	0.005	1066.95	400.68	522.09	1060.14
1190	5.835	0.005	1067.69	401.10	522.66	1060.89
1191	5.84	0.005	1068.43	401.52	523.23	1061.64
1192	5.845	0.005	1069.17	401.94	523.79	1062.39
1193	5.85	0.005	1069.91	402.36	524.36	1063.14
1194	5.855	0.005	1070.65	402.78	524.93	1063.89
1195	5.86	0.005	1071.39	403.20	525.50	1064.64
1196	5.865	0.005	1072.13	403.63	526.06	1065.39
1197	5.87	0.005	1072.87	404.05	526.63	1066.14
1198	5.875	0.005	1073.61	404.47	527.20	1066.89
1199	5.88	0.005	1074.35	404.89	527.77	1067.64
1200	5.885	0.005	1075.09	405.31	528.34	1068.39
1201	5.89	0.005	1075.83	405.73	528.91	1069.14
1202	5.895	0.005	1076.56	406.16	529.48	1069.89
1203	5.9	0.005	1077.30	406.58	530.05	1070.64
1204	5.905	0.005	1078.04	407.00	530.62	1071.39
1205	5.91	0.005	1078.78	407.43	531.19	1072.13
1206	5.915	0.005	1079.52	407.85	531.76	1072.88
1207	5.92	0.005	1080.26	408.27	532.33	1073.63
1208	5.925	0.005	1081.00	408.70	532.90	1074.38
1209	5.93	0.005	1081.74	409.12	533.47	1075.13
1210	5.935	0.005	1082.48	409.54	534.04	1075.88
1211	5.94	0.005	1083.22	409.97	534.61	1076.63
1212	5.945	0.005	1083.96	410.39	535.19	1077.38
1213	5.95	0.005	1084.70	410.82	535.76	1078.12
1214	5.955	0.005	1085.43	411.24	536.33	1078.87
1215	5.96	0.005	1086.17	411.67	536.90	1079.62
1216	5.965	0.005	1086.91	412.10	537.48	1080.37
1217	5.97	0.005	1087.65	412.52	538.05	1081.12
1218	5.975	0.005	1088.39	412.95	538.62	1081.87
1219	5.98	0.005	1089.13	413.37	539.20	1082.61
1220	5.985	0.005	1089.86	413.80	539.77	1083.36
1221	5.99	0.005	1090.60	414.23	540.34	1084.11
1222	5.995	0.005	1091.34	414.66	540.92	1084.86
1223	6	0.005	1092.08	415.08	541.49	1085.60
1224	6.005	0.005	1092.82	415.51	542.07	1086.35
1225	6.01	0.005	1093.56	415.94	542.64	1087.10

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1226	6.015	0.005	1094.29	416.37	543.22	1087.85
1227	6.02	0.005	1095.03	416.80	543.79	1088.59
1228	6.025	0.005	1095.77	417.22	544.37	1089.34
1229	6.03	0.005	1096.51	417.65	544.94	1090.09
1230	6.035	0.005	1097.24	418.08	545.52	1090.83
1231	6.04	0.005	1097.98	418.51	546.10	1091.58
1232	6.045	0.005	1098.72	418.94	546.67	1092.33
1233	6.05	0.005	1099.46	419.37	547.25	1093.07
1234	6.055	0.005	1100.20	419.80	547.83	1093.82
1235	6.06	0.005	1100.93	420.23	548.41	1094.57
1236	6.065	0.005	1101.67	420.66	548.98	1095.31
1237	6.07	0.005	1102.41	421.09	549.56	1096.06
1238	6.075	0.005	1103.14	421.52	550.14	1096.81
1239	6.08	0.005	1103.88	421.96	550.72	1097.55
1240	6.085	0.005	1104.62	422.39	551.30	1098.30
1241	6.09	0.005	1105.36	422.82	551.87	1099.05
1242	6.095	0.005	1106.09	423.25	552.45	1099.79
1243	6.1	0.005	1106.83	423.68	553.03	1100.54
1244	6.105	0.005	1107.57	424.12	553.61	1101.28
1245	6.11	0.005	1108.30	424.55	554.19	1102.03
1246	6.115	0.005	1109.04	424.98	554.77	1102.77
1247	6.12	0.005	1109.78	425.41	555.35	1103.52
1248	6.125	0.005	1110.51	425.85	555.93	1104.27
1249	6.13	0.005	1111.25	426.28	556.51	1105.01
1250	6.135	0.005	1111.99	426.72	557.09	1105.76
1251	6.14	0.005	1112.72	427.15	557.68	1106.50
1252	6.145	0.005	1113.46	427.58	558.26	1107.25
1253	6.15	0.005	1114.19	428.02	558.84	1107.99
1254	6.155	0.005	1114.93	428.45	559.42	1108.74
1255	6.16	0.005	1115.67	428.89	560.00	1109.48
1256	6.165	0.005	1116.40	429.32	560.58	1110.23
1257	6.17	0.005	1117.14	429.76	561.17	1110.97
1258	6.175	0.005	1117.87	430.19	561.75	1111.72
1259	6.18	0.005	1118.61	430.63	562.33	1112.46
1260	6.185	0.005	1119.35	431.07	562.92	1113.20
1261	6.19	0.005	1120.08	431.50	563.50	1113.95
1262	6.195	0.005	1120.82	431.94	564.08	1114.69
1263	6.2	0.005	1121.55	432.38	564.67	1115.44
1264	6.205	0.005	1122.29	432.81	565.25	1116.18
1265	6.21	0.005	1123.02	433.25	565.84	1116.93
1266	6.215	0.005	1123.76	433.69	566.42	1117.67

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1267	6.22	0.005	1124.49	434.13	567.00	1118.41
1268	6.225	0.005	1125.23	434.57	567.59	1119.16
1269	6.23	0.005	1125.97	435.00	568.17	1119.90
1270	6.235	0.005	1126.70	435.44	568.76	1120.64
1271	6.24	0.005	1127.44	435.88	569.35	1121.39
1272	6.245	0.005	1128.17	436.32	569.93	1122.13
1273	6.25	0.005	1128.91	436.76	570.52	1122.88
1274	6.255	0.005	1129.64	437.20	571.10	1123.62
1275	6.26	0.005	1130.38	437.64	571.69	1124.36
1276	6.265	0.005	1131.11	438.08	572.28	1125.11
1277	6.27	0.005	1131.84	438.52	572.86	1125.85
1278	6.275	0.005	1132.58	438.96	573.45	1126.59
1279	6.28	0.005	1133.31	439.40	574.04	1127.33
1280	6.285	0.005	1134.05	439.84	574.63	1128.08
1281	6.29	0.005	1134.78	440.28	575.21	1128.82
1282	6.295	0.005	1135.52	440.72	575.80	1129.56
1283	6.3	0.005	1136.25	441.16	576.39	1130.31
1284	6.305	0.005	1136.99	441.61	576.98	1131.05
1285	6.31	0.005	1137.72	442.05	577.57	1131.79
1286	6.315	0.005	1138.45	442.49	578.16	1132.53
1287	6.32	0.005	1139.19	442.93	578.75	1133.28
1288	6.325	0.005	1139.92	443.38	579.34	1134.02
1289	6.33	0.005	1140.66	443.82	579.93	1134.76
1290	6.335	0.005	1141.39	444.26	580.52	1135.50
1291	6.34	0.005	1142.12	444.71	581.11	1136.24
1292	6.345	0.005	1142.86	445.15	581.70	1136.99
1293	6.35	0.005	1143.59	445.59	582.29	1137.73
1294	6.355	0.005	1144.32	446.04	582.88	1138.47
1295	6.36	0.005	1145.06	446.48	583.47	1139.21
1296	6.365	0.005	1145.79	446.93	584.06	1139.95
1297	6.37	0.005	1146.53	447.37	584.65	1140.69
1298	6.375	0.005	1147.26	447.82	585.24	1141.44
1299	6.38	0.005	1147.99	448.26	585.83	1142.18
1300	6.385	0.005	1148.73	448.71	586.43	1142.92
1301	6.39	0.005	1149.46	449.15	587.02	1143.66
1302	6.395	0.005	1150.19	449.60	587.61	1144.40
1303	6.4	0.005	1150.92	450.04	588.20	1145.14
1304	6.405	0.005	1151.66	450.49	588.80	1145.88
1305	6.41	0.005	1152.39	450.94	589.39	1146.62
1306	6.415	0.005	1153.12	451.38	589.98	1147.36
1307	6.42	0.005	1153.86	451.83	590.58	1148.10

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1308	6.425	0.005	1154.59	452.28	591.17	1148.85
1309	6.43	0.005	1155.32	452.73	591.77	1149.59
1310	6.435	0.005	1156.05	453.17	592.36	1150.33
1311	6.44	0.005	1156.79	453.62	592.95	1151.07
1312	6.445	0.005	1157.52	454.07	593.55	1151.81
1313	6.45	0.005	1158.25	454.52	594.14	1152.55
1314	6.455	0.005	1158.98	454.97	594.74	1153.29
1315	6.46	0.005	1159.72	455.42	595.33	1154.03
1316	6.465	0.005	1160.45	455.87	595.93	1154.77
1317	6.47	0.005	1161.18	456.31	596.53	1155.51
1318	6.475	0.005	1161.91	456.76	597.12	1156.25
1319	6.48	0.005	1162.65	457.21	597.72	1156.99
1320	6.485	0.005	1163.38	457.66	598.31	1157.73
1321	6.49	0.005	1164.11	458.11	598.91	1158.47
1322	6.495	0.005	1164.84	458.56	599.51	1159.21
1323	6.5	0.005	1165.57	459.02	600.10	1159.95
1324	6.505	0.005	1166.30	459.47	600.70	1160.69
1325	6.51	0.005	1167.04	459.92	601.30	1161.42
1326	6.515	0.005	1167.77	460.37	601.90	1162.16
1327	6.52	0.005	1168.50	460.82	602.50	1162.90
1328	6.525	0.005	1169.23	461.27	603.09	1163.64
1329	6.53	0.005	1169.96	461.72	603.69	1164.38
1330	6.535	0.005	1170.69	462.18	604.29	1165.12
1331	6.54	0.005	1171.43	462.63	604.89	1165.86
1332	6.545	0.005	1172.16	463.08	605.49	1166.60
1333	6.55	0.005	1172.89	463.53	606.09	1167.34
1334	6.555	0.005	1173.62	463.99	606.69	1168.08
1335	6.56	0.005	1174.35	464.44	607.29	1168.81
1336	6.565	0.005	1175.08	464.89	607.89	1169.55
1337	6.57	0.005	1175.81	465.35	608.49	1170.29
1338	6.575	0.005	1176.54	465.80	609.09	1171.03
1339	6.58	0.005	1177.27	466.26	609.69	1171.77
1340	6.585	0.005	1178.00	466.71	610.29	1172.51
1341	6.59	0.005	1178.74	467.17	610.89	1173.24
1342	6.595	0.005	1179.47	467.62	611.49	1173.98
1343	6.6	0.005	1180.20	468.08	612.09	1174.72
1344	6.605	0.005	1180.93	468.53	612.69	1175.46
1345	6.61	0.005	1181.66	468.99	613.29	1176.20
1346	6.615	0.005	1182.39	469.44	613.89	1176.93
1347	6.62	0.005	1183.12	469.90	614.50	1177.67
1348	6.625	0.005	1183.85	470.35	615.10	1178.41

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1349	6.63	0.005	1184.58	470.81	615.70	1179.15
1350	6.635	0.005	1185.31	471.27	616.30	1179.88
1351	6.64	0.005	1186.04	471.72	616.91	1180.62
1352	6.645	0.005	1186.77	472.18	617.51	1181.36
1353	6.65	0.005	1187.50	472.64	618.11	1182.10
1354	6.655	0.005	1188.23	473.10	618.72	1182.83
1355	6.66	0.005	1188.96	473.55	619.32	1183.57
1356	6.665	0.005	1189.69	474.01	619.92	1184.31
1357	6.67	0.005	1190.42	474.47	620.53	1185.04
1358	6.675	0.005	1191.15	474.93	621.13	1185.78
1359	6.68	0.005	1191.88	475.39	621.74	1186.52
1360	6.685	0.005	1192.61	475.85	622.34	1187.25
1361	6.69	0.005	1193.34	476.31	622.95	1187.99
1362	6.695	0.005	1194.07	476.77	623.55	1188.73
1363	6.7	0.005	1194.80	477.23	624.16	1189.46
1364	6.705	0.005	1195.52	477.68	624.76	1190.20
1365	6.71	0.005	1196.25	478.14	625.37	1190.94
1366	6.715	0.005	1196.98	478.61	625.97	1191.67
1367	6.72	0.005	1197.71	479.07	626.58	1192.41
1368	6.725	0.005	1198.44	479.53	627.19	1193.14
1369	6.73	0.005	1199.17	479.99	627.79	1193.88
1370	6.735	0.005	1199.90	480.45	628.40	1194.62
1371	6.74	0.005	1200.63	480.91	629.01	1195.35
1372	6.745	0.005	1201.36	481.37	629.61	1196.09
1373	6.75	0.005	1202.09	481.83	630.22	1196.82
1374	6.755	0.005	1202.81	482.29	630.83	1197.56
1375	6.76	0.005	1203.54	482.76	631.44	1198.30
1376	6.765	0.005	1204.27	483.22	632.04	1199.03
1377	6.77	0.005	1205.00	483.68	632.65	1199.77
1378	6.775	0.005	1205.73	484.14	633.26	1200.50
1379	6.78	0.005	1206.46	484.61	633.87	1201.24
1380	6.785	0.005	1207.19	485.07	634.48	1201.97
1381	6.79	0.005	1207.91	485.53	635.09	1202.71
1382	6.795	0.005	1208.64	486.00	635.70	1203.44
1383	6.8	0.005	1209.37	486.46	636.31	1204.18
1384	6.805	0.005	1210.10	486.93	636.91	1204.91
1385	6.81	0.005	1210.83	487.39	637.52	1205.65
1386	6.815	0.005	1211.55	487.86	638.13	1206.38
1387	6.82	0.005	1212.28	488.32	638.74	1207.12
1388	6.825	0.005	1213.01	488.78	639.35	1207.85
1389	6.83	0.005	1213.74	489.25	639.96	1208.59

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1390	6.835	0.005	1214.47	489.72	640.58	1209.32
1391	6.84	0.005	1215.19	490.18	641.19	1210.05
1392	6.845	0.005	1215.92	490.65	641.80	1210.79
1393	6.85	0.005	1216.65	491.11	642.41	1211.52
1394	6.855	0.005	1217.38	491.58	643.02	1212.26
1395	6.86	0.005	1218.10	492.05	643.63	1212.99
1396	6.865	0.005	1218.83	492.51	644.24	1213.73
1397	6.87	0.005	1219.56	492.98	644.86	1214.46
1398	6.875	0.005	1220.28	493.45	645.47	1215.19
1399	6.88	0.005	1221.01	493.91	646.08	1215.93
1400	6.885	0.005	1221.74	494.38	646.69	1216.66
1401	6.89	0.005	1222.47	494.85	647.31	1217.40
1402	6.895	0.005	1223.19	495.32	647.92	1218.13
1403	6.9	0.005	1223.92	495.79	648.53	1218.86
1404	6.905	0.005	1224.65	496.25	649.15	1219.60
1405	6.91	0.005	1225.37	496.72	649.76	1220.33
1406	6.915	0.005	1226.10	497.19	650.37	1221.06
1407	6.92	0.005	1226.83	497.66	650.99	1221.80
1408	6.925	0.005	1227.55	498.13	651.60	1222.53
1409	6.93	0.005	1228.28	498.60	652.21	1223.26
1410	6.935	0.005	1229.01	499.07	652.83	1224.00
1411	6.94	0.005	1229.73	499.54	653.44	1224.73
1412	6.945	0.005	1230.46	500.01	654.06	1225.46
1413	6.95	0.005	1231.19	500.48	654.67	1226.19
1414	6.955	0.005	1231.91	500.95	655.29	1226.93
1415	6.96	0.005	1232.64	501.42	655.90	1227.66
1416	6.965	0.005	1233.37	501.89	656.52	1228.39
1417	6.97	0.005	1234.09	502.36	657.14	1229.12
1418	6.975	0.005	1234.82	502.83	657.75	1229.86
1419	6.98	0.005	1235.54	503.31	658.37	1230.59
1420	6.985	0.005	1236.27	503.78	658.98	1231.32
1421	6.99	0.005	1237.00	504.25	659.60	1232.05
1422	6.995	0.005	1237.72	504.72	660.22	1232.79
1423	7	0.005	1238.45	505.19	660.84	1233.52
1424	7.005	0.005	1239.17	505.67	661.45	1234.25
1425	7.01	0.005	1239.90	506.14	662.07	1234.98
1426	7.015	0.005	1240.62	506.61	662.69	1235.71
1427	7.02	0.005	1241.35	507.09	663.30	1236.45
1428	7.025	0.005	1242.07	507.56	663.92	1237.18
1429	7.03	0.005	1242.80	508.03	664.54	1237.91
1430	7.035	0.005	1243.53	508.51	665.16	1238.64

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1431	7.04	0.005	1244.25	508.98	665.78	1239.37
1432	7.045	0.005	1244.98	509.46	666.40	1240.10
1433	7.05	0.005	1245.70	509.93	667.02	1240.84
1434	7.055	0.005	1246.43	510.41	667.63	1241.57
1435	7.06	0.005	1247.15	510.88	668.25	1242.30
1436	7.065	0.005	1247.88	511.36	668.87	1243.03
1437	7.07	0.005	1248.60	511.83	669.49	1243.76
1438	7.075	0.005	1249.33	512.31	670.11	1244.49
1439	7.08	0.005	1250.05	512.78	670.73	1245.22
1440	7.085	0.005	1250.78	513.26	671.35	1245.95
1441	7.09	0.005	1251.50	513.73	671.97	1246.68
1442	7.095	0.005	1252.23	514.21	672.59	1247.42
1443	7.1	0.005	1252.95	514.69	673.21	1248.15
1444	7.105	0.005	1253.67	515.16	673.83	1248.88
1445	7.11	0.005	1254.40	515.64	674.46	1249.61
1446	7.115	0.005	1255.12	516.12	675.08	1250.34
1447	7.12	0.005	1255.85	516.60	675.70	1251.07
1448	7.125	0.005	1256.57	517.07	676.32	1251.80
1449	7.13	0.005	1257.30	517.55	676.94	1252.53
1450	7.135	0.005	1258.02	518.03	677.56	1253.26
1451	7.14	0.005	1258.74	518.51	678.19	1253.99
1452	7.145	0.005	1259.47	518.99	678.81	1254.72
1453	7.15	0.005	1260.19	519.47	679.43	1255.45
1454	7.155	0.005	1260.92	519.94	680.05	1256.18
1455	7.16	0.005	1261.64	520.42	680.68	1256.91
1456	7.165	0.005	1262.36	520.90	681.30	1257.64
1457	7.17	0.005	1263.09	521.38	681.92	1258.37
1458	7.175	0.005	1263.81	521.86	682.55	1259.10
1459	7.18	0.005	1264.54	522.34	683.17	1259.83
1460	7.185	0.005	1265.26	522.82	683.79	1260.56
1461	7.19	0.005	1265.98	523.30	684.42	1261.29
1462	7.195	0.005	1266.71	523.78	685.04	1262.02
1463	7.2	0.005	1267.43	524.26	685.66	1262.75
1464	7.205	0.005	1268.15	524.74	686.29	1263.47
1465	7.21	0.005	1268.88	525.23	686.91	1264.20
1466	7.215	0.005	1269.60	525.71	687.54	1264.93
1467	7.22	0.005	1270.32	526.19	688.16	1265.66
1468	7.225	0.005	1271.05	526.67	688.79	1266.39
1469	7.23	0.005	1271.77	527.15	689.41	1267.12
1470	7.235	0.005	1272.49	527.63	690.04	1267.85
1471	7.24	0.005	1273.21	528.12	690.67	1268.58

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1472	7.245	0.005	1273.94	528.60	691.29	1269.31
1473	7.25	0.005	1274.66	529.08	691.92	1270.04
1474	7.255	0.005	1275.38	529.57	692.54	1270.76
1475	7.26	0.005	1276.11	530.05	693.17	1271.49
1476	7.265	0.005	1276.83	530.53	693.80	1272.22
1477	7.27	0.005	1277.55	531.02	694.42	1272.95
1478	7.275	0.005	1278.27	531.50	695.05	1273.68
1479	7.28	0.005	1279.00	531.98	695.68	1274.41
1480	7.285	0.005	1279.72	532.47	696.30	1275.13
1481	7.29	0.005	1280.44	532.95	696.93	1275.86
1482	7.295	0.005	1281.16	533.44	697.56	1276.59
1483	7.3	0.005	1281.89	533.92	698.19	1277.32
1484	7.305	0.005	1282.61	534.41	698.82	1278.05
1485	7.31	0.005	1283.33	534.89	699.44	1278.77
1486	7.315	0.005	1284.05	535.38	700.07	1279.50
1487	7.32	0.005	1284.77	535.86	700.70	1280.23
1488	7.325	0.005	1285.50	536.35	701.33	1280.96
1489	7.33	0.005	1286.22	536.83	701.96	1281.68
1490	7.335	0.005	1286.94	537.32	702.59	1282.41
1491	7.34	0.005	1287.66	537.81	703.22	1283.14
1492	7.345	0.005	1288.38	538.29	703.85	1283.87
1493	7.35	0.005	1289.11	538.78	704.48	1284.59
1494	7.355	0.005	1289.83	539.27	705.11	1285.32
1495	7.36	0.005	1290.55	539.76	705.74	1286.05
1496	7.365	0.005	1291.27	540.24	706.37	1286.78
1497	7.37	0.005	1291.99	540.73	707.00	1287.50
1498	7.375	0.005	1292.71	541.22	707.63	1288.23
1499	7.38	0.005	1293.43	541.71	708.26	1288.96
1500	7.385	0.005	1294.16	542.19	708.89	1289.68
1501	7.39	0.005	1294.88	542.68	709.52	1290.41
1502	7.395	0.005	1295.60	543.17	710.15	1291.14
1503	7.4	0.005	1296.32	543.66	710.79	1291.86
1504	7.405	0.005	1297.04	544.15	711.42	1292.59
1505	7.41	0.005	1297.76	544.64	712.05	1293.32
1506	7.415	0.005	1298.48	545.13	712.68	1294.04
1507	7.42	0.005	1299.20	545.62	713.31	1294.77
1508	7.425	0.005	1299.92	546.11	713.95	1295.50
1509	7.43	0.005	1300.64	546.60	714.58	1296.22
1510	7.435	0.005	1301.37	547.09	715.21	1296.95
1511	7.44	0.005	1302.09	547.58	715.84	1297.67
1512	7.445	0.005	1302.81	548.07	716.48	1298.40

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1513	7.45	0.005	1303.53	548.56	717.11	1299.13
1514	7.455	0.005	1304.25	549.05	717.75	1299.85
1515	7.46	0.005	1304.97	549.54	718.38	1300.58
1516	7.465	0.005	1305.69	550.03	719.01	1301.30
1517	7.47	0.005	1306.41	550.53	719.65	1302.03
1518	7.475	0.005	1307.13	551.02	720.28	1302.75
1519	7.48	0.005	1307.85	551.51	720.92	1303.48
1520	7.485	0.005	1308.57	552.00	721.55	1304.21
1521	7.49	0.005	1309.29	552.49	722.19	1304.93
1522	7.495	0.005	1310.01	552.99	722.82	1305.66
1523	7.5	0.005	1310.73	553.48	723.46	1306.38
1524	7.505	0.005	1311.45	553.97	724.09	1307.11
1525	7.51	0.005	1312.17	554.47	724.73	1307.83
1526	7.515	0.005	1312.89	554.96	725.36	1308.56
1527	7.52	0.005	1313.61	555.45	726.00	1309.28
1528	7.525	0.005	1314.33	555.95	726.64	1310.01
1529	7.53	0.005	1315.05	556.44	727.27	1310.73
1530	7.535	0.005	1315.77	556.94	727.91	1311.46
1531	7.54	0.005	1316.49	557.43	728.54	1312.18
1532	7.545	0.005	1317.21	557.92	729.18	1312.91
1533	7.55	0.005	1317.93	558.42	729.82	1313.63
1534	7.555	0.005	1318.65	558.91	730.46	1314.36
1535	7.56	0.005	1319.36	559.41	731.09	1315.08
1536	7.565	0.005	1320.08	559.90	731.73	1315.80
1537	7.57	0.005	1320.80	560.40	732.37	1316.53
1538	7.575	0.005	1321.52	560.90	733.01	1317.25
1539	7.58	0.005	1322.24	561.39	733.65	1317.98
1540	7.585	0.005	1322.96	561.89	734.28	1318.70
1541	7.59	0.005	1323.68	562.38	734.92	1319.43
1542	7.595	0.005	1324.40	562.88	735.56	1320.15
1543	7.6	0.005	1325.12	563.38	736.20	1320.87
1544	7.605	0.005	1325.84	563.87	736.84	1321.60
1545	7.61	0.005	1326.55	564.37	737.48	1322.32
1546	7.615	0.005	1327.27	564.87	738.12	1323.05
1547	7.62	0.005	1327.99	565.37	738.76	1323.77
1548	7.625	0.005	1328.71	565.86	739.40	1324.49
1549	7.63	0.005	1329.43	566.36	740.04	1325.22
1550	7.635	0.005	1330.15	566.86	740.68	1325.94
1551	7.64	0.005	1330.87	567.36	741.32	1326.66
1552	7.645	0.005	1331.58	567.86	741.96	1327.39
1553	7.65	0.005	1332.30	568.36	742.60	1328.11

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1554	7.655	0.005	1333.02	568.85	743.24	1328.83
1555	7.66	0.005	1333.74	569.35	743.88	1329.56
1556	7.665	0.005	1334.46	569.85	744.52	1330.28
1557	7.67	0.005	1335.18	570.35	745.16	1331.00
1558	7.675	0.005	1335.89	570.85	745.80	1331.73
1559	7.68	0.005	1336.61	571.35	746.44	1332.45
1560	7.685	0.005	1337.33	571.85	747.09	1333.17
1561	7.69	0.005	1338.05	572.35	747.73	1333.89
1562	7.695	0.005	1338.76	572.85	748.37	1334.62
1563	7.7	0.005	1339.48	573.35	749.01	1335.34
1564	7.705	0.005	1340.20	573.85	749.65	1336.06
1565	7.71	0.005	1340.92	574.35	750.30	1336.79
1566	7.715	0.005	1341.64	574.86	750.94	1337.51
1567	7.72	0.005	1342.35	575.36	751.58	1338.23
1568	7.725	0.005	1343.07	575.86	752.23	1338.95
1569	7.73	0.005	1343.79	576.36	752.87	1339.67
1570	7.735	0.005	1344.51	576.86	753.51	1340.40
1571	7.74	0.005	1345.22	577.36	754.16	1341.12
1572	7.745	0.005	1345.94	577.87	754.80	1341.84
1573	7.75	0.005	1346.66	578.37	755.44	1342.56
1574	7.755	0.005	1347.37	578.87	756.09	1343.29
1575	7.76	0.005	1348.09	579.38	756.73	1344.01
1576	7.765	0.005	1348.81	579.88	757.38	1344.73
1577	7.77	0.005	1349.53	580.38	758.02	1345.45
1578	7.775	0.005	1350.24	580.89	758.67	1346.17
1579	7.78	0.005	1350.96	581.39	759.31	1346.89
1580	7.785	0.005	1351.68	581.89	759.96	1347.62
1581	7.79	0.005	1352.39	582.40	760.60	1348.34
1582	7.795	0.005	1353.11	582.90	761.25	1349.06
1583	7.8	0.005	1353.83	583.41	761.89	1349.78
1584	7.805	0.005	1354.54	583.91	762.54	1350.50
1585	7.81	0.005	1355.26	584.41	763.19	1351.22
1586	7.815	0.005	1355.98	584.92	763.83	1351.94
1587	7.82	0.005	1356.69	585.42	764.48	1352.67
1588	7.825	0.005	1357.41	585.93	765.12	1353.39
1589	7.83	0.005	1358.12	586.44	765.77	1354.11
1590	7.835	0.005	1358.84	586.94	766.42	1354.83
1591	7.84	0.005	1359.56	587.45	767.07	1355.55
1592	7.845	0.005	1360.27	587.95	767.71	1356.27
1593	7.85	0.005	1360.99	588.46	768.36	1356.99
1594	7.855	0.005	1361.70	588.97	769.01	1357.71

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1595	7.86	0.005	1362.42	589.47	769.66	1358.43
1596	7.865	0.005	1363.14	589.98	770.30	1359.15
1597	7.87	0.005	1363.85	590.49	770.95	1359.87
1598	7.875	0.005	1364.57	590.99	771.60	1360.59
1599	7.88	0.005	1365.28	591.50	772.25	1361.31
1600	7.885	0.005	1366.00	592.01	772.90	1362.04
1601	7.89	0.005	1366.72	592.52	773.54	1362.76
1602	7.895	0.005	1367.43	593.03	774.19	1363.48
1603	7.9	0.005	1368.15	593.53	774.84	1364.20
1604	7.905	0.005	1368.86	594.04	775.49	1364.92
1605	7.91	0.005	1369.58	594.55	776.14	1365.64
1606	7.915	0.005	1370.29	595.06	776.79	1366.36
1607	7.92	0.005	1371.01	595.57	777.44	1367.08
1608	7.925	0.005	1371.72	596.08	778.09	1367.80
1609	7.93	0.005	1372.44	596.59	778.74	1368.52
1610	7.935	0.005	1373.15	597.10	779.39	1369.24
1611	7.94	0.005	1373.87	597.61	780.04	1369.95
1612	7.945	0.005	1374.58	598.12	780.69	1370.67
1613	7.95	0.005	1375.30	598.63	781.34	1371.39
1614	7.955	0.005	1376.01	599.14	781.99	1372.11
1615	7.96	0.005	1376.73	599.65	782.64	1372.83
1616	7.965	0.005	1377.44	600.16	783.29	1373.55
1617	7.97	0.005	1378.16	600.67	783.95	1374.27
1618	7.975	0.005	1378.87	601.18	784.60	1374.99
1619	7.98	0.005	1379.59	601.69	785.25	1375.71
1620	7.985	0.005	1380.30	602.20	785.90	1376.43
1621	7.99	0.005	1381.02	602.71	786.55	1377.15
1622	7.995	0.005	1381.73	603.22	787.20	1377.87
1623	8	0.005	1382.45	603.74	787.86	1378.59
1624	8.005	0.005	1383.16	604.25	788.51	1379.30
1625	8.01	0.005	1383.87	604.76	789.16	1380.02
1626	8.015	0.005	1384.59	605.27	789.81	1380.74
1627	8.02	0.005	1385.30	605.79	790.47	1381.46
1628	8.025	0.005	1386.02	606.30	791.12	1382.18
1629	8.03	0.005	1386.73	606.81	791.77	1382.90
1630	8.035	0.005	1387.45	607.32	792.43	1383.62
1631	8.04	0.005	1388.16	607.84	793.08	1384.34
1632	8.045	0.005	1388.87	608.35	793.73	1385.05
1633	8.05	0.005	1389.59	608.86	794.39	1385.77
1634	8.055	0.005	1390.30	609.38	795.04	1386.49
1635	8.06	0.005	1391.01	609.89	795.69	1387.21

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1636	8.065	0.005	1391.73	610.41	796.35	1387.93
1637	8.07	0.005	1392.44	610.92	797.00	1388.64
1638	8.075	0.005	1393.16	611.44	797.66	1389.36
1639	8.08	0.005	1393.87	611.95	798.31	1390.08
1640	8.085	0.005	1394.58	612.47	798.97	1390.80
1641	8.09	0.005	1395.30	612.98	799.62	1391.52
1642	8.095	0.005	1396.01	613.50	800.28	1392.23
1643	8.1	0.005	1396.72	614.01	800.93	1392.95
1644	8.105	0.005	1397.44	614.53	801.59	1393.67
1645	8.11	0.005	1398.15	615.04	802.24	1394.39
1646	8.115	0.005	1398.86	615.56	802.90	1395.10
1647	8.12	0.005	1399.58	616.08	803.56	1395.82
1648	8.125	0.005	1400.29	616.59	804.21	1396.54
1649	8.13	0.005	1401.00	617.11	804.87	1397.26
1650	8.135	0.005	1401.72	617.63	805.52	1397.97
1651	8.14	0.005	1402.43	618.14	806.18	1398.69
1652	8.145	0.005	1403.14	618.66	806.84	1399.41
1653	8.15	0.005	1403.85	619.18	807.49	1400.13
1654	8.155	0.005	1404.57	619.69	808.15	1400.84
1655	8.16	0.005	1405.28	620.21	808.81	1401.56
1656	8.165	0.005	1405.99	620.73	809.47	1402.28
1657	8.17	0.005	1406.70	621.25	810.12	1402.99
1658	8.175	0.005	1407.42	621.77	810.78	1403.71
1659	8.18	0.005	1408.13	622.29	811.44	1404.43
1660	8.185	0.005	1408.84	622.80	812.10	1405.14
1661	8.19	0.005	1409.55	623.32	812.76	1405.86
1662	8.195	0.005	1410.27	623.84	813.41	1406.58
1663	8.2	0.005	1410.98	624.36	814.07	1407.29
1664	8.205	0.005	1411.69	624.88	814.73	1408.01
1665	8.21	0.005	1412.40	625.40	815.39	1408.73
1666	8.215	0.005	1413.12	625.92	816.05	1409.44
1667	8.22	0.005	1413.83	626.44	816.71	1410.16
1668	8.225	0.005	1414.54	626.96	817.37	1410.87
1669	8.23	0.005	1415.25	627.48	818.03	1411.59
1670	8.235	0.005	1415.96	628.00	818.69	1412.31
1671	8.24	0.005	1416.68	628.52	819.34	1413.02
1672	8.245	0.005	1417.39	629.04	820.00	1413.74
1673	8.25	0.005	1418.10	629.56	820.66	1414.45
1674	8.255	0.005	1418.81	630.08	821.32	1415.17
1675	8.26	0.005	1419.52	630.60	821.98	1415.89
1676	8.265	0.005	1420.23	631.13	822.64	1416.60

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1677	8.27	0.005	1420.95	631.65	823.31	1417.32
1678	8.275	0.005	1421.66	632.17	823.97	1418.03
1679	8.28	0.005	1422.37	632.69	824.63	1418.75
1680	8.285	0.005	1423.08	633.21	825.29	1419.46
1681	8.29	0.005	1423.79	633.74	825.95	1420.18
1682	8.295	0.005	1424.50	634.26	826.61	1420.89
1683	8.3	0.005	1425.21	634.78	827.27	1421.61
1684	8.305	0.005	1425.92	635.30	827.93	1422.33
1685	8.31	0.005	1426.64	635.83	828.59	1423.04
1686	8.315	0.005	1427.35	636.35	829.26	1423.76
1687	8.32	0.005	1428.06	636.87	829.92	1424.47
1688	8.325	0.005	1428.77	637.40	830.58	1425.19
1689	8.33	0.005	1429.48	637.92	831.24	1425.90
1690	8.335	0.005	1430.19	638.44	831.91	1426.62
1691	8.34	0.005	1430.90	638.97	832.57	1427.33
1692	8.345	0.005	1431.61	639.49	833.23	1428.05
1693	8.35	0.005	1432.32	640.02	833.89	1428.76
1694	8.355	0.005	1433.03	640.54	834.56	1429.47
1695	8.36	0.005	1433.74	641.07	835.22	1430.19
1696	8.365	0.005	1434.45	641.59	835.88	1430.90
1697	8.37	0.005	1435.17	642.12	836.55	1431.62
1698	8.375	0.005	1435.88	642.64	837.21	1432.33
1699	8.38	0.005	1436.59	643.17	837.87	1433.05
1700	8.385	0.005	1437.30	643.69	838.54	1433.76
1701	8.39	0.005	1438.01	644.22	839.20	1434.48
1702	8.395	0.005	1438.72	644.75	839.87	1435.19
1703	8.4	0.005	1439.43	645.27	840.53	1435.90
1704	8.405	0.005	1440.14	645.80	841.19	1436.62
1705	8.41	0.005	1440.85	646.32	841.86	1437.33
1706	8.415	0.005	1441.56	646.85	842.52	1438.05
1707	8.42	0.005	1442.27	647.38	843.19	1438.76
1708	8.425	0.005	1442.98	647.91	843.85	1439.47
1709	8.43	0.005	1443.69	648.43	844.52	1440.19
1710	8.435	0.005	1444.40	648.96	845.18	1440.90
1711	8.44	0.005	1445.11	649.49	845.85	1441.61
1712	8.445	0.005	1445.82	650.02	846.52	1442.33
1713	8.45	0.005	1446.53	650.54	847.18	1443.04
1714	8.455	0.005	1447.24	651.07	847.85	1443.75
1715	8.46	0.005	1447.95	651.60	848.51	1444.47
1716	8.465	0.005	1448.65	652.13	849.18	1445.18
1717	8.47	0.005	1449.36	652.66	849.85	1445.89

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1718	8.475	0.005	1450.07	653.19	850.51	1446.61
1719	8.48	0.005	1450.78	653.71	851.18	1447.32
1720	8.485	0.005	1451.49	654.24	851.84	1448.03
1721	8.49	0.005	1452.20	654.77	852.51	1448.75
1722	8.495	0.005	1452.91	655.30	853.18	1449.46
1723	8.5	0.005	1453.62	655.83	853.85	1450.17
1724	8.505	0.005	1454.33	656.36	854.51	1450.89
1725	8.51	0.005	1455.04	656.89	855.18	1451.60
1726	8.515	0.005	1455.75	657.42	855.85	1452.31
1727	8.52	0.005	1456.46	657.95	856.52	1453.02
1728	8.525	0.005	1457.16	658.48	857.18	1453.74
1729	8.53	0.005	1457.87	659.01	857.85	1454.45
1730	8.535	0.005	1458.58	659.54	858.52	1455.16
1731	8.54	0.005	1459.29	660.08	859.19	1455.87
1732	8.545	0.005	1460.00	660.61	859.86	1456.59
1733	8.55	0.005	1460.71	661.14	860.53	1457.30
1734	8.555	0.005	1461.42	661.67	861.19	1458.01
1735	8.56	0.005	1462.12	662.20	861.86	1458.72
1736	8.565	0.005	1462.83	662.73	862.53	1459.44
1737	8.57	0.005	1463.54	663.27	863.20	1460.15
1738	8.575	0.005	1464.25	663.80	863.87	1460.86
1739	8.58	0.005	1464.96	664.33	864.54	1461.57
1740	8.585	0.005	1465.67	664.86	865.21	1462.28
1741	8.59	0.005	1466.37	665.39	865.88	1463.00
1742	8.595	0.005	1467.08	665.93	866.55	1463.71
1743	8.6	0.005	1467.79	666.46	867.22	1464.42
1744	8.605	0.005	1468.50	666.99	867.89	1465.13
1745	8.61	0.005	1469.21	667.53	868.56	1465.84
1746	8.615	0.005	1469.91	668.06	869.23	1466.56
1747	8.62	0.005	1470.62	668.59	869.90	1467.27
1748	8.625	0.005	1471.33	669.13	870.57	1467.98
1749	8.63	0.005	1472.04	669.66	871.24	1468.69
1750	8.635	0.005	1472.75	670.20	871.91	1469.40
1751	8.64	0.005	1473.45	670.73	872.58	1470.11
1752	8.645	0.005	1474.16	671.27	873.25	1470.82
1753	8.65	0.005	1474.87	671.80	873.92	1471.53
1754	8.655	0.005	1475.58	672.34	874.60	1472.25
1755	8.66	0.005	1476.28	672.87	875.27	1472.96
1756	8.665	0.005	1476.99	673.41	875.94	1473.67
1757	8.67	0.005	1477.70	673.94	876.61	1474.38
1758	8.675	0.005	1478.41	674.48	877.28	1475.09

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1759	8.68	0.005	1479.11	675.01	877.95	1475.80
1760	8.685	0.005	1479.82	675.55	878.63	1476.51
1761	8.69	0.005	1480.53	676.08	879.30	1477.22
1762	8.695	0.005	1481.23	676.62	879.97	1477.93
1763	8.7	0.005	1481.94	677.16	880.64	1478.64
1764	8.705	0.005	1482.65	677.69	881.32	1479.35
1765	8.71	0.005	1483.36	678.23	881.99	1480.06
1766	8.715	0.005	1484.06	678.77	882.66	1480.78
1767	8.72	0.005	1484.77	679.31	883.34	1481.49
1768	8.725	0.005	1485.48	679.84	884.01	1482.20
1769	8.73	0.005	1486.18	680.38	884.68	1482.91
1770	8.735	0.005	1486.89	680.92	885.36	1483.62
1771	8.74	0.005	1487.60	681.46	886.03	1484.33
1772	8.745	0.005	1488.30	681.99	886.70	1485.04
1773	8.75	0.005	1489.01	682.53	887.38	1485.75
1774	8.755	0.005	1489.72	683.07	888.05	1486.46
1775	8.76	0.005	1490.42	683.61	888.73	1487.17
1776	8.765	0.005	1491.13	684.15	889.40	1487.88
1777	8.77	0.005	1491.84	684.69	890.07	1488.59
1778	8.775	0.005	1492.54	685.22	890.75	1489.30
1779	8.78	0.005	1493.25	685.76	891.42	1490.01
1780	8.785	0.005	1493.95	686.30	892.10	1490.72
1781	8.79	0.005	1494.66	686.84	892.77	1491.43
1782	8.795	0.005	1495.37	687.38	893.45	1492.13
1783	8.8	0.005	1496.07	687.92	894.12	1492.84
1784	8.805	0.005	1496.78	688.46	894.80	1493.55
1785	8.81	0.005	1497.48	689.00	895.48	1494.26
1786	8.815	0.005	1498.19	689.54	896.15	1494.97
1787	8.82	0.005	1498.90	690.08	896.83	1495.68
1788	8.825	0.005	1499.60	690.62	897.50	1496.39
1789	8.83	0.005	1500.31	691.16	898.18	1497.10
1790	8.835	0.005	1501.01	691.70	898.85	1497.81
1791	8.84	0.005	1501.72	692.24	899.53	1498.52
1792	8.845	0.005	1502.42	692.79	900.21	1499.23
1793	8.85	0.005	1503.13	693.33	900.88	1499.94
1794	8.855	0.005	1503.83	693.87	901.56	1500.64
1795	8.86	0.005	1504.52	694.41	902.24	1501.35
1796	8.865	0.005	1505.21	694.95	902.91	1502.05
1797	8.87	0.005	1505.89	695.49	903.59	1502.75
1798	8.875	0.005	1506.57	696.04	904.27	1503.43
1799	8.88	0.005	1507.24	696.58	904.95	1504.09

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1800	8.885	0.005	1507.91	697.12	905.62	1504.75
1801	8.89	0.005	1508.57	697.66	906.30	1505.41
1802	8.895	0.005	1509.23	698.21	906.98	1506.05
1803	8.9	0.005	1509.89	698.75	907.66	1506.70
1804	8.905	0.005	1510.55	699.29	908.33	1507.34
1805	8.91	0.005	1511.21	699.84	909.01	1507.97
1806	8.915	0.005	1511.86	700.38	909.69	1508.61
1807	8.92	0.005	1512.52	700.92	910.37	1509.26
1808	8.925	0.005	1513.17	701.47	911.04	1509.90
1809	8.93	0.005	1513.82	702.01	911.72	1510.55
1810	8.935	0.005	1514.47	702.55	912.40	1511.20
1811	8.94	0.005	1515.12	703.10	913.08	1511.84
1812	8.945	0.005	1515.77	703.64	913.76	1512.49
1813	8.95	0.005	1516.42	704.19	914.43	1513.14
1814	8.955	0.005	1517.06	704.73	915.11	1513.79
1815	8.96	0.005	1517.71	705.28	915.79	1514.43
1816	8.965	0.005	1518.36	705.82	916.47	1515.08
1817	8.97	0.005	1519.00	706.37	917.15	1515.72
1818	8.975	0.005	1519.65	706.91	917.83	1516.37
1819	8.98	0.005	1520.29	707.46	918.50	1517.01
1820	8.985	0.005	1520.94	708.00	919.18	1517.66
1821	8.99	0.005	1521.58	708.55	919.86	1518.30
1822	8.995	0.005	1522.22	709.09	920.54	1518.94
1823	9	0.005	1522.86	709.64	921.22	1519.59
1824	9.005	0.005	1523.50	710.18	921.90	1520.23
1825	9.01	0.005	1524.14	710.73	922.58	1520.87
1826	9.015	0.005	1524.78	711.28	923.26	1521.51
1827	9.02	0.005	1525.42	711.82	923.94	1522.15
1828	9.025	0.005	1526.06	712.37	924.61	1522.79
1829	9.03	0.005	1526.70	712.92	925.29	1523.43
1830	9.035	0.005	1527.34	713.46	925.97	1524.07
1831	9.04	0.005	1527.97	714.01	926.65	1524.71
1832	9.045	0.005	1528.61	714.56	927.33	1525.34
1833	9.05	0.005	1529.24	715.10	928.01	1525.98
1834	9.055	0.005	1529.88	715.65	928.69	1526.62
1835	9.06	0.005	1530.51	716.20	929.37	1527.25
1836	9.065	0.005	1531.15	716.74	930.05	1527.89
1837	9.07	0.005	1531.78	717.29	930.73	1528.52
1838	9.075	0.005	1532.41	717.84	931.41	1529.16
1839	9.08	0.005	1533.05	718.39	932.09	1529.79
1840	9.085	0.005	1533.68	718.93	932.77	1530.42

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1841	9.09	0.005	1534.31	719.48	933.45	1531.06
1842	9.095	0.005	1534.94	720.03	934.13	1531.69
1843	9.1	0.005	1535.57	720.58	934.81	1532.32
1844	9.105	0.005	1536.20	721.13	935.49	1532.95
1845	9.11	0.005	1536.83	721.68	936.17	1533.58
1846	9.115	0.005	1537.46	722.22	936.85	1534.21
1847	9.12	0.005	1538.08	722.77	937.53	1534.84
1848	9.125	0.005	1538.71	723.32	938.21	1535.47
1849	9.13	0.005	1539.34	723.87	938.89	1536.10
1850	9.135	0.005	1539.96	724.42	939.57	1536.72
1851	9.14	0.005	1540.59	724.97	940.25	1537.35
1852	9.145	0.005	1541.21	725.52	940.93	1537.98
1853	9.15	0.005	1541.84	726.07	941.61	1538.60
1854	9.155	0.005	1542.46	726.62	942.29	1539.23
1855	9.16	0.005	1543.08	727.17	942.97	1539.85
1856	9.165	0.005	1543.71	727.72	943.65	1540.48
1857	9.17	0.005	1544.33	728.27	944.33	1541.10
1858	9.175	0.005	1544.95	728.82	945.01	1541.73
1859	9.18	0.005	1545.57	729.37	945.69	1542.35
1860	9.185	0.005	1546.19	729.92	946.37	1542.97
1861	9.19	0.005	1546.82	730.47	947.05	1543.59
1862	9.195	0.005	1547.44	731.02	947.73	1544.21
1863	9.2	0.005	1548.06	731.57	948.41	1544.84
1864	9.205	0.005	1548.68	732.12	949.09	1545.46
1865	9.21	0.005	1549.30	732.67	949.77	1546.08
1866	9.215	0.005	1549.92	733.22	950.45	1546.70
1867	9.22	0.005	1550.54	733.77	951.13	1547.32
1868	9.225	0.005	1551.16	734.32	951.81	1547.95
1869	9.23	0.005	1551.78	734.87	952.49	1548.57
1870	9.235	0.005	1552.40	735.42	953.17	1549.19
1871	9.24	0.005	1553.02	735.98	953.85	1549.81
1872	9.245	0.005	1553.64	736.53	954.53	1550.43
1873	9.25	0.005	1554.25	737.08	955.21	1551.05
1874	9.255	0.005	1554.87	737.63	955.89	1551.68
1875	9.26	0.005	1555.49	738.18	956.58	1552.30
1876	9.265	0.005	1556.11	738.73	957.26	1552.92
1877	9.27	0.005	1556.73	739.29	957.94	1553.54
1878	9.275	0.005	1557.35	739.84	958.62	1554.16
1879	9.28	0.005	1557.96	740.39	959.30	1554.78
1880	9.285	0.005	1558.58	740.94	959.98	1555.40
1881	9.29	0.005	1559.20	741.50	960.66	1556.02

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1882	9.295	0.005	1559.82	742.05	961.34	1556.64
1883	9.3	0.005	1560.43	742.60	962.02	1557.26
1884	9.305	0.005	1561.05	743.15	962.70	1557.88
1885	9.31	0.005	1561.67	743.71	963.38	1558.50
1886	9.315	0.005	1562.28	744.26	964.07	1559.12
1887	9.32	0.005	1562.90	744.81	964.75	1559.73
1888	9.325	0.005	1563.52	745.37	965.43	1560.35
1889	9.33	0.005	1564.13	745.92	966.11	1560.97
1890	9.335	0.005	1564.75	746.47	966.79	1561.59
1891	9.34	0.005	1565.36	747.03	967.47	1562.21
1892	9.345	0.005	1565.98	747.58	968.15	1562.83
1893	9.35	0.005	1566.60	748.13	968.83	1563.45
1894	9.355	0.005	1567.21	748.69	969.51	1564.06
1895	9.36	0.005	1567.83	749.24	970.20	1564.68
1896	9.365	0.005	1568.44	749.80	970.88	1565.30
1897	9.37	0.005	1569.06	750.35	971.56	1565.92
1898	9.375	0.005	1569.67	750.91	972.24	1566.53
1899	9.38	0.005	1570.29	751.46	972.92	1567.15
1900	9.385	0.005	1570.90	752.01	973.60	1567.77
1901	9.39	0.005	1571.51	752.57	974.28	1568.38
1902	9.395	0.005	1572.13	753.12	974.97	1569.00
1903	9.4	0.005	1572.74	753.68	975.65	1569.62
1904	9.405	0.005	1573.36	754.23	976.33	1570.23
1905	9.41	0.005	1573.97	754.79	977.01	1570.85
1906	9.415	0.005	1574.58	755.34	977.69	1571.46
1907	9.42	0.005	1575.20	755.90	978.37	1572.08
1908	9.425	0.005	1575.81	756.45	979.05	1572.69
1909	9.43	0.005	1576.42	757.01	979.74	1573.31
1910	9.435	0.005	1577.03	757.57	980.42	1573.93
1911	9.44	0.005	1577.65	758.12	981.10	1574.54
1912	9.445	0.005	1578.26	758.68	981.78	1575.16
1913	9.45	0.005	1578.87	759.23	982.46	1575.77
1914	9.455	0.005	1579.48	759.79	983.14	1576.38
1915	9.46	0.005	1580.10	760.35	983.82	1577.00
1916	9.465	0.005	1580.71	760.90	984.51	1577.61
1917	9.47	0.005	1581.32	761.46	985.19	1578.23
1918	9.475	0.005	1581.93	762.02	985.87	1578.84
1919	9.48	0.005	1582.54	762.57	986.55	1579.45
1920	9.485	0.005	1583.15	763.13	987.23	1580.07
1921	9.49	0.005	1583.76	763.69	987.91	1580.68
1922	9.495	0.005	1584.37	764.24	988.60	1581.29

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1923	9.5	0.005	1584.97	764.80	989.28	1581.90
1924	9.505	0.005	1585.58	765.36	989.96	1582.51
1925	9.51	0.005	1586.19	765.91	990.64	1583.12
1926	9.515	0.005	1586.79	766.47	991.32	1583.72
1927	9.52	0.005	1587.40	767.03	992.01	1584.33
1928	9.525	0.005	1588.01	767.59	992.69	1584.94
1929	9.53	0.005	1588.61	768.14	993.37	1585.54
1930	9.535	0.005	1589.21	768.70	994.05	1586.15
1931	9.54	0.005	1589.82	769.26	994.73	1586.75
1932	9.545	0.005	1590.42	769.82	995.41	1587.36
1933	9.55	0.005	1591.02	770.37	996.10	1587.96
1934	9.555	0.005	1591.62	770.93	996.78	1588.57
1935	9.56	0.005	1592.23	771.49	997.46	1589.17
1936	9.565	0.005	1592.83	772.05	998.14	1589.77
1937	9.57	0.005	1593.43	772.61	998.82	1590.37
1938	9.575	0.005	1594.03	773.17	999.51	1590.97
1939	9.58	0.005	1594.63	773.72	1000.19	1591.57
1940	9.585	0.005	1595.22	774.28	1000.87	1592.17
1941	9.59	0.005	1595.82	774.84	1001.55	1592.77
1942	9.595	0.005	1596.42	775.40	1002.23	1593.37
1943	9.6	0.005	1597.02	775.96	1002.92	1593.97
1944	9.605	0.005	1597.61	776.52	1003.60	1594.56
1945	9.61	0.005	1598.21	777.08	1004.28	1595.16
1946	9.615	0.005	1598.80	777.64	1004.96	1595.76
1947	9.62	0.005	1599.40	778.20	1005.64	1596.35
1948	9.625	0.005	1599.99	778.76	1006.32	1596.95
1949	9.63	0.005	1600.58	779.32	1007.01	1597.54
1950	9.635	0.005	1601.18	779.87	1007.69	1598.14
1951	9.64	0.005	1601.77	780.43	1008.37	1598.73
1952	9.645	0.005	1602.36	780.99	1009.05	1599.32
1953	9.65	0.005	1602.95	781.55	1009.73	1599.92
1954	9.655	0.005	1603.54	782.11	1010.42	1600.51
1955	9.66	0.005	1604.13	782.67	1011.10	1601.10
1956	9.665	0.005	1604.72	783.23	1011.78	1601.69
1957	9.67	0.005	1605.31	783.79	1012.46	1602.28
1958	9.675	0.005	1605.90	784.35	1013.14	1602.87
1959	9.68	0.005	1606.49	784.92	1013.82	1603.46
1960	9.685	0.005	1607.08	785.48	1014.51	1604.05
1961	9.69	0.005	1607.66	786.04	1015.19	1604.64
1962	9.695	0.005	1608.25	786.60	1015.87	1605.22
1963	9.7	0.005	1608.84	787.16	1016.55	1605.81

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
1964	9.705	0.005	1609.42	787.72	1017.23	1606.40
1965	9.71	0.005	1610.01	788.28	1017.92	1606.98
1966	9.715	0.005	1610.59	788.84	1018.60	1607.57
1967	9.72	0.005	1611.17	789.40	1019.28	1608.15
1968	9.725	0.005	1611.76	789.96	1019.96	1608.74
1969	9.73	0.005	1612.34	790.52	1020.64	1609.32
1970	9.735	0.005	1612.92	791.08	1021.32	1609.90
1971	9.74	0.005	1613.50	791.65	1022.01	1610.49
1972	9.745	0.005	1614.08	792.21	1022.69	1611.07
1973	9.75	0.005	1614.67	792.77	1023.37	1611.65
1974	9.755	0.005	1615.25	793.33	1024.05	1612.23
1975	9.76	0.005	1615.83	793.89	1024.73	1612.81
1976	9.765	0.005	1616.40	794.45	1025.41	1613.39
1977	9.77	0.005	1616.98	795.02	1026.09	1613.97
1978	9.775	0.005	1617.56	795.58	1026.78	1614.55
1979	9.78	0.005	1618.14	796.14	1027.46	1615.13
1980	9.785	0.005	1618.72	796.70	1028.14	1615.71
1981	9.79	0.005	1619.30	797.26	1028.82	1616.29
1982	9.795	0.005	1619.88	797.83	1029.50	1616.87
1983	9.8	0.005	1620.45	798.39	1030.18	1617.45
1984	9.805	0.005	1621.03	798.95	1030.86	1618.03
1985	9.81	0.005	1621.61	799.51	1031.55	1618.61
1986	9.815	0.005	1622.19	800.08	1032.23	1619.19
1987	9.82	0.005	1622.77	800.64	1032.91	1619.77
1988	9.825	0.005	1623.34	801.20	1033.59	1620.35
1989	9.83	0.005	1623.92	801.76	1034.27	1620.93
1990	9.835	0.005	1624.50	802.33	1034.95	1621.51
1991	9.84	0.005	1625.07	802.89	1035.63	1622.08
1992	9.845	0.005	1625.65	803.45	1036.31	1622.66
1993	9.85	0.005	1626.23	804.02	1037.00	1623.24
1994	9.855	0.005	1626.81	804.58	1037.68	1623.82
1995	9.86	0.005	1627.38	805.14	1038.36	1624.40
1996	9.865	0.005	1627.96	805.71	1039.04	1624.98
1997	9.87	0.005	1628.54	806.27	1039.72	1625.56
1998	9.875	0.005	1629.11	806.83	1040.40	1626.14
1999	9.88	0.005	1629.69	807.40	1041.08	1626.72
2000	9.885	0.005	1630.27	807.96	1041.76	1627.30
2001	9.89	0.005	1630.84	808.52	1042.44	1627.88
2002	9.895	0.005	1631.42	809.09	1043.13	1628.45
2003	9.9	0.005	1632.00	809.65	1043.81	1629.03
2004	9.905	0.005	1632.57	810.22	1044.49	1629.61

Attachment 7

	A	B	C	D	E	F
20						
21	Elapsed Time	Time Step	Fuel Temp	Upper Plenum Temp	Lower Plenum Temp	Channel Box Temp
22	Hr	Hr	F	F	F	F
2005	9.91	0.005	1633.15	810.78	1045.17	1630.19
2006	9.915	0.005	1633.72	811.34	1045.85	1630.77
2007	9.92	0.005	1634.30	811.91	1046.53	1631.35
2008	9.925	0.005	1634.88	812.47	1047.21	1631.92
2009	9.93	0.005	1635.45	813.04	1047.89	1632.50
2010	9.935	0.005	1636.03	813.60	1048.57	1633.08
2011	9.94	0.005	1636.60	814.16	1049.25	1633.66
2012	9.945	0.005	1637.18	814.73	1049.93	1634.24
2013	9.95	0.005	1637.75	815.29	1050.61	1634.81
2014	9.955	0.005	1638.33	815.86	1051.30	1635.39
2015	9.96	0.005	1638.90	816.42	1051.98	1635.97
2016	9.965	0.005	1639.48	816.99	1052.66	1636.55
2017	9.97	0.005	1640.06	817.55	1053.34	1637.13
2018	9.975	0.005	1640.63	818.12	1054.02	1637.70
2019	9.98	0.005	1641.21	818.68	1054.70	1638.28
2020	9.985	0.005	1641.78	819.25	1055.38	1638.86
2021	9.99	0.005	1642.36	819.81	1056.06	1639.43
2022	9.995	0.005	1642.93	820.38	1056.74	1640.01
2023	10	0.005	1643.51	820.94	1057.42	1640.59
2024	10.005	0.005	1644.08	821.51	1058.10	1641.17

	G	H	I	J	K
1			Zircaloy Specific Heat (Table 4-2 NUREG/CR-6150)		
2			Temp K	Temp F	Cp (J/kg*K)
3			300	80.33	281
4			400	260.33	302
5			640	692.33	331
6			1090	1502.33	375
7			1093	1507.73	502
8			1113	1543.73	590
9			1133	1579.73	615
10			1153	1615.73	719
11					
12			1173	1651.73	816
13			1193	1687.73	770
14			1213	1723.73	619
15			1233	1759.73	469
16			1248	1786.73	356
17					
18					
19	X=G23+P23	$x=(X24*\$B\$11*(C24-D24))/\$B\9	$x=(AA24*\$B\$12*(C24-E24))/\$B\10	$x=(\$B\$13*\$B\$14*\$B\$15*((C24+460)^(4)-(F24+460)^(4)))$	$x=(\$B\$13*\$B\$14*\$B\$15*((F24+460)^(4)-(G24+460)^(4)))$
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
23	120	0	0	0	0
24	120.00	0.090387588	0.266859815	13.84442841	0
25	120.00	0.180482677	0.532759976	27.47232107	0.263804645
26	120.00	0.270288962	0.797711993	40.89294716	0.77908329
27	120.00	0.359810008	1.061726986	54.11508122	1.534142452
28	120.00	0.449049255	1.324815707	67.14703367	2.517887904
29	120.01	0.53801003	1.586988554	79.996679	3.719789366
30	120.01	0.626695547	1.848255594	92.67148212	5.129847582
31	120.01	0.715108915	2.108626576	105.1785227	6.738563613
32	120.02	0.803253143	2.368110946	117.5245179	8.536910159
33	120.03	0.891131144	2.626717862	129.7158435	10.51630476
34	120.04	0.978745741	2.884456208	141.7585537	12.66858474
35	120.06	1.066099669	3.141334608	153.6583995	14.98598376
36	120.07	1.153195581	3.397361434	165.4208458	17.46110985

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
37	120.09	1.240036053	3.652544821	177.0510873	20.08692484
38	120.11	1.326623583	3.906892679	188.5540639	22.85672507
39	120.13	1.412960599	4.160412698	199.9344743	25.76412323
40	120.16	1.49904946	4.413112362	211.1967894	28.80303145
41	120.19	1.584892461	4.664998957	222.3452645	31.96764523
42	120.23	1.670491831	4.916079578	233.3839509	35.2524285
43	120.26	1.755849743	5.166361141	244.3167065	38.65209943
44	120.30	1.84096831	5.415850386	255.1472062	42.16161721
45	120.35	1.925849593	5.664553889	265.8789516	45.77616944
46	120.40	2.010495598	5.912478063	276.5152795	49.49116043
47	120.45	2.094908281	6.159629173	287.0593705	53.3022
48	120.50	2.179089552	6.406013335	297.5142572	57.20509306
49	120.56	2.263041273	6.651636524	307.8828315	61.19582965
50	120.63	2.346765262	6.896504582	318.1678514	65.27057567
51	120.70	2.430263296	7.140623222	328.3719482	69.42566399
52	120.77	2.51353711	7.383998029	338.4976322	73.65758615
53	120.85	2.5965884	7.626634475	348.5472987	77.96298447
54	120.93	2.679418825	7.868537911	358.5232341	82.33864459
55	121.02	2.762030009	8.109713583	368.4276206	86.78148842
56	121.11	2.844423539	8.350166629	378.2625412	91.28856748
57	121.20	2.92660097	8.589902084	388.0299847	95.85705656
58	121.30	3.008563826	8.828924888	397.7318503	100.4842477
59	121.41	3.0903136	9.067239883	407.369951	105.1675446
60	121.52	3.171851753	9.304851823	416.9460186	109.9044572
61	121.64	3.253179722	9.541765375	426.4617068	114.6925966
62	121.76	3.334298913	9.777985119	435.9185951	119.52967
63	121.88	3.415210706	10.01351556	445.3181919	124.4134766
64	122.01	3.495916459	10.24836111	454.6619383	129.3419027
65	122.15	3.576417501	10.48252612	463.9512105	134.3129179
66	122.29	3.65671514	10.71601487	473.187323	139.3245712
67	122.44	3.736810662	10.94883156	482.3715313	144.374987
68	122.59	3.816705329	11.18098032	491.5050349	149.4623618
69	122.75	3.896400385	11.41246524	500.588979	154.5849606
70	122.91	3.975897049	11.6432903	509.6244575	159.7411139
71	123.08	4.055196526	11.87345947	518.6125151	164.9292146
72	123.25	4.134299997	12.10297662	527.5541495	170.1477152
73	123.43	4.213208628	12.3318456	536.450313	175.3951246
74	123.61	4.291923567	12.56007017	545.3019151	180.6700061
75	123.80	4.370445943	12.78765406	554.1098239	185.9709745
76	124.00	4.448776871	13.01460094	562.8748678	191.2966938
77	124.20	4.526917449	13.24091442	571.5978377	196.645875

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
78	124.41	4.60486876	13.4665981	580.279488	202.0172739
79	124.62	4.682631872	13.69165548	588.9205383	207.4096889
80	124.84	4.760207838	13.91609006	597.5216751	212.8219595
81	125.06	4.837597698	14.13990527	606.0835529	218.2529638
82	125.29	4.914802479	14.3631045	614.6067957	223.7016173
83	125.52	4.991823194	14.58569112	623.0919978	229.1668709
84	125.77	5.068660843	14.80766843	631.539726	234.6477093
85	126.01	5.145316417	15.02903972	639.9505195	240.1431496
86	126.26	5.221790891	15.24980822	648.3248919	245.6522397
87	126.52	5.298085232	15.46997713	656.663332	251.174057
88	126.79	5.374200393	15.68954963	664.9663047	256.7077068
89	127.06	5.450137321	15.90852885	673.2342518	262.2523217
90	127.33	5.525896947	16.12691789	681.4675933	267.8070595
91	127.61	5.601480195	16.34471982	689.6667282	273.3711027
92	127.90	5.676887981	16.56193767	697.832035	278.9436573
93	128.19	5.752121208	16.77857446	705.9638728	284.5239515
94	128.49	5.827180771	16.99463316	714.0625819	290.1112347
95	128.80	5.902067559	17.21011673	722.1284848	295.704777
96	129.11	5.976782448	17.42502809	730.1618864	301.3038678
97	129.42	6.05132631	17.63937012	738.1630753	306.9078151
98	129.74	6.125700005	17.85314571	746.1323238	312.5159447
99	130.07	6.199904387	18.0663577	754.069889	318.1275995
100	130.41	6.273940304	18.2790089	761.9760131	323.7421385
101	130.74	6.347808595	18.49110212	769.8509243	329.3589364
102	131.09	6.421510091	18.70264012	777.6948367	334.9773825
103	131.44	6.495045617	18.91362565	785.5079515	340.5968805
104	131.80	6.568415993	19.12406145	793.2904571	346.2168476
105	132.16	6.641622029	19.33395022	801.0425298	351.836714
106	132.53	6.714664532	19.54329464	808.7643339	357.4559222
107	132.90	6.787544301	19.75209738	816.4560226	363.0739268
108	133.29	6.860262129	19.96036109	824.117738	368.6901936
109	133.67	6.932818805	20.16808839	831.7496118	374.3041994
110	134.06	7.005215109	20.37528189	839.3517654	379.9154312
111	134.46	7.07745182	20.58194418	846.9243108	385.5233862
112	134.87	7.149529707	20.78807782	854.4673501	391.127571
113	135.28	7.221449538	20.99368539	861.9809766	396.7275016
114	135.69	7.293212073	21.1987694	869.4652748	402.3227025
115	136.11	7.364818069	21.40333239	876.9203209	407.9127067
116	136.54	7.436268276	21.60737686	884.3461825	413.4970554
117	136.97	7.507563443	21.81090529	891.74292	419.0752973
118	137.41	7.578704311	22.01392017	899.1105857	424.6469887

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
119	137.85	7.649691618	22.21642395	906.4492248	430.211693
120	138.30	7.720526099	22.41841907	913.7588754	435.7689805
121	138.76	7.791208483	22.61990798	921.0395689	441.3184279
122	139.22	7.861739496	22.82089308	928.29133	446.8596185
123	139.69	7.932119859	23.02137678	935.5141772	452.3921415
124	140.16	8.002350291	23.22136147	942.7081228	457.9155921
125	140.64	8.072431507	23.42084953	949.8731732	463.429571
126	141.13	8.142364216	23.61984332	957.009329	468.9336845
127	141.62	8.212149127	23.81834521	964.1165855	474.4275441
128	142.11	8.281786943	24.01635752	971.1949326	479.9107664
129	142.61	8.351278366	24.21388259	978.244355	485.3829729
130	143.12	8.420624092	24.41092275	985.2648327	490.8437897
131	143.63	8.489824816	24.60748029	992.2563406	496.2928477
132	144.15	8.55888123	24.80355752	999.2188492	501.7297821
133	144.68	8.627794021	24.99915672	1006.152324	507.1542326
134	145.21	8.696563876	25.19428017	1013.056728	512.5658428
135	145.74	8.765191478	25.38893014	1019.932018	517.9642605
136	146.28	8.833677505	25.58310888	1026.778147	523.3491376
137	146.83	8.902022637	25.77681865	1033.595065	528.7201296
138	147.38	8.970227547	25.97006167	1040.382718	534.0768957
139	147.94	9.038292908	26.16284019	1047.14105	539.4190991
140	148.50	9.106219391	26.35515642	1053.869997	544.7464063
141	149.07	9.174007662	26.54701257	1060.569497	550.0584871
142	149.64	9.241658388	26.73841084	1067.239482	555.3550152
143	150.22	9.30917223	26.92935344	1073.87988	560.6356673
144	150.80	9.376549851	27.11984255	1080.490619	565.9001233
145	151.39	9.443791909	27.30988035	1087.071622	571.1480665
146	151.99	9.51089906	27.499469	1093.622809	576.3791834
147	152.59	9.57787196	27.68861069	1100.144099	581.5931634
148	153.19	9.644711262	27.87730755	1106.635407	586.7896991
149	153.80	9.711417615	28.06556175	1113.096647	591.9684861
150	154.42	9.77799167	28.25337542	1119.527729	597.1292229
151	155.04	9.844434074	28.4407507	1125.928563	602.2716111
152	155.67	9.910745472	28.62768973	1132.299053	607.3953551
153	156.30	9.976926508	28.81419462	1138.639105	612.5001621
154	156.94	10.04297782	29.00026748	1144.948622	617.5857423
155	157.58	10.10890006	29.18591044	1151.227503	622.6518087
156	158.23	10.17469386	29.37112559	1157.475648	627.6980772
157	158.88	10.24035985	29.55591504	1163.692954	632.7242663
158	159.54	10.30589868	29.74028087	1169.879317	637.7300974
159	160.20	10.37131098	29.92422517	1176.03463	642.7152949

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
160	160.87	10.43659737	30.10775002	1182.158786	647.6795855
161	161.54	10.5017598	30.29086135	1188.252057	652.622699
162	162.22	10.56679958	30.47356324	1194.314531	657.5443785
163	162.90	10.63171732	30.65585773	1200.346081	662.4443747
164	163.59	10.69651364	30.8377468	1206.346583	667.3224405
165	164.28	10.76118913	31.01923248	1212.31591	672.1783307
166	164.98	10.82574442	31.20031676	1218.253936	677.0118019
167	165.68	10.89018011	31.38100163	1224.160534	681.8226131
168	166.39	10.95449681	31.56128909	1230.035577	686.6105249
169	167.10	11.01869512	31.74118112	1235.878939	691.3753004
170	167.82	11.08277565	31.9206797	1241.69049	696.1167048
171	168.54	11.14673901	32.09978683	1247.470105	700.8345053
172	169.27	11.21058579	32.27850447	1253.217655	705.5284714
173	170.00	11.2743166	32.45683459	1258.933012	710.198375
174	170.73	11.33793205	32.63477917	1264.616049	714.8439903
175	171.47	11.40143273	32.81234016	1270.266639	719.4650936
176	172.22	11.46481925	32.98951954	1275.884653	724.0614638
177	172.97	11.5280922	33.16631926	1281.469965	728.6328823
178	173.72	11.59125218	33.34274127	1287.022448	733.1791327
179	174.48	11.6542998	33.51878753	1292.541974	737.7000013
180	175.24	11.71723565	33.69445998	1298.028418	742.1952769
181	176.01	11.78006032	33.86976058	1303.481653	746.6647509
182	176.78	11.84277442	34.04469125	1308.901554	751.1082173
183	177.56	11.90537854	34.21925394	1314.287995	755.5254726
184	178.34	11.96787327	34.39345058	1319.640853	759.9163162
185	179.13	12.03025921	34.56728311	1324.960004	764.2805501
186	179.91	12.09253695	34.74075346	1330.245323	768.6179791
187	180.71	12.15470709	34.91386354	1335.496689	772.9284109
188	181.51	12.21677022	35.08661529	1340.71398	777.2116559
189	182.31	12.27872693	35.25901062	1345.897075	781.4675273
190	183.11	12.3405778	35.43105145	1351.045854	785.6958413
191	183.93	12.40232344	35.6027397	1356.160198	789.8964172
192	184.74	12.46396444	35.77407727	1361.239988	794.0690769
193	185.56	12.52550137	35.94506607	1366.285109	798.2136455
194	186.38	12.58693483	36.11570801	1371.295444	802.3299513
195	187.21	12.64826541	36.28600499	1376.270878	806.4178254
196	188.04	12.7094937	36.45595891	1381.211298	810.477102
197	188.87	12.77062028	36.62557167	1386.116591	814.5076187
198	189.71	12.83164574	36.79484515	1390.986647	818.509216
199	190.56	12.89257067	36.96378125	1395.821357	822.4817376
200	191.40	12.95339564	37.13238186	1400.620611	826.4250306

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
201	192.25	13.01412125	37.30064886	1405.384304	830.3389452
202	193.11	13.07474808	37.46858414	1410.112331	834.2233348
203	193.97	13.13527671	37.63618956	1414.804588	838.0780564
204	194.83	13.19570773	37.80346702	1419.460974	841.90297
205	195.69	13.25604171	37.97041838	1424.081388	845.6979391
206	196.56	13.31627924	38.13704551	1428.665732	849.4628307
207	197.44	13.37642091	38.30335028	1433.21391	853.197515
208	198.31	13.43646728	38.46933455	1437.725828	856.9018658
209	199.19	13.49641894	38.63500019	1442.201393	860.5757602
210	200.08	13.55627647	38.80034906	1446.640514	864.2190789
211	200.96	13.61604044	38.965383	1451.043102	867.831706
212	201.85	13.67571144	39.13010388	1455.409072	871.4135293
213	202.75	13.73529004	39.29451353	1459.738339	874.96444
214	203.64	13.79477682	39.45861382	1464.03082	878.4843329
215	204.54	13.85417235	39.62240658	1468.286437	881.9731063
216	205.45	13.9134772	39.78589365	1472.505111	885.4306623
217	206.36	13.97269196	39.94907686	1476.686767	888.8569065
218	207.27	14.0318172	40.11195807	1480.831332	892.2517482
219	208.18	14.09085348	40.27453908	1484.938737	895.6151002
220	209.10	14.14980138	40.43682174	1489.008912	898.9468792
221	210.02	14.20866147	40.59880786	1493.041793	902.2470055
222	210.94	14.26743431	40.76049926	1497.037317	905.5154029
223	211.87	14.32612049	40.92189777	1500.995423	908.7519993
224	212.80	14.38472057	41.0830052	1504.916055	911.9567261
225	213.73	14.44323511	41.24382335	1508.799158	915.1295185
226	214.67	14.50166469	41.40435404	1512.644679	918.2703153
227	215.60	14.56000986	41.56459907	1516.452569	921.3790593
228	216.55	14.6182712	41.72456024	1520.2221	924.4563795
229	217.49	14.67644927	41.88423936	1523.950853	927.5045909
230	218.44	14.73454466	42.04363832	1527.638971	930.5234161
231	219.39	14.79255799	42.20275901	1531.286591	933.5125969
232	220.34	14.85048982	42.36160328	1534.893838	936.4718931
233	221.30	14.90834075	42.52017301	1538.460831	939.4010816
234	222.25	14.96611136	42.67847003	1541.987682	942.2999558
235	223.21	15.02380223	42.83649619	1545.474495	945.1683246
236	224.18	15.08141394	42.99425333	1548.92137	948.006012
237	225.14	15.13894708	43.15174327	1552.328402	950.8128557
238	226.11	15.1964022	43.30896784	1555.69568	953.5887073
239	227.08	15.25377989	43.46592883	1559.023291	956.3334308
240	228.06	15.31108071	43.62262806	1562.311316	959.046903
241	229.03	15.36830524	43.77906732	1565.559836	961.7290119

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
242	230.01	15.42545403	43.93524839	1568.768926	964.3796571
243	230.99	15.48252765	44.09117307	1571.938662	966.9987486
244	231.98	15.53952666	44.24684312	1575.069117	969.5862069
245	232.96	15.59645162	44.40226032	1578.160361	972.1419621
246	233.95	15.65330309	44.55742642	1581.212466	974.665954
247	234.94	15.71008162	44.71234318	1584.225501	977.1581311
248	235.94	15.76678777	44.86701235	1587.199535	979.6184508
249	236.93	15.82342209	45.02143567	1590.134639	982.0468787
250	237.93	15.87998512	45.17561488	1593.03088	984.4433886
251	238.93	15.93647742	45.3295517	1595.88833	986.8079619
252	239.93	15.99289952	45.48324785	1598.707058	989.1405874
253	240.93	16.04925198	45.63670505	1601.487136	991.4412611
254	241.94	16.10553533	45.78992501	1604.228636	993.709986
255	242.95	16.16175012	45.94290943	1606.931632	995.9467717
256	243.96	16.21789688	46.09566001	1609.596199	998.1516343
257	244.97	16.27397615	46.24817844	1612.222414	1000.324596
258	245.98	16.32998846	46.4004664	1614.810355	1002.465686
259	247.00	16.38593434	46.55252557	1617.360103	1004.574937
260	248.01	16.44181433	46.70435761	1619.87174	1006.652391
261	249.03	16.49762896	46.8559642	1622.345351	1008.698092
262	250.05	16.55337874	47.00734699	1624.781023	1010.712092
263	251.08	16.6090642	47.15850762	1627.178844	1012.694446
264	252.10	16.66468587	47.30944775	1629.538908	1014.645216
265	253.13	16.72024426	47.46016901	1631.861309	1016.564468
266	254.15	16.77573989	47.61067303	1634.146142	1018.452273
267	255.18	16.83117329	47.76096143	1636.39351	1020.308706
268	256.21	16.88654496	47.91103583	1638.603513	1022.133849
269	257.25	16.94185541	48.06089785	1640.776258	1023.927786
270	258.28	16.99710515	48.21054908	1642.911853	1025.690606
271	259.31	17.0522947	48.35999111	1645.01041	1027.422402
272	260.35	17.10742456	48.50922555	1647.072043	1029.123273
273	261.39	17.16249523	48.65825396	1649.09687	1030.793319
274	262.43	17.2175072	48.80707793	1651.085011	1032.432647
275	263.47	17.27246099	48.95569902	1653.036591	1034.041367
276	264.51	17.32735709	49.10411879	1654.951736	1035.619591
277	265.56	17.38219599	49.25233879	1656.830576	1037.167437
278	266.60	17.43697817	49.40036056	1658.673246	1038.685027
279	267.65	17.49170415	49.54818566	1660.479881	1040.172484
280	268.69	17.54637439	49.6958156	1662.250621	1041.629937
281	269.74	17.60098939	49.8432519	1663.98561	1043.057517
282	270.79	17.65554962	49.99049609	1665.684994	1044.45536

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
283	271.84	17.71005557	50.13754966	1667.348922	1045.823603
284	272.89	17.76450772	50.28441412	1668.977548	1047.162389
285	273.95	17.81890654	50.43109095	1670.571027	1048.471862
286	275.00	17.8732525	50.57758164	1672.129519	1049.752169
287	276.06	17.92754607	50.72388767	1673.653186	1051.003463
288	277.11	17.98178772	50.8700105	1675.142194	1052.225897
289	278.17	18.03597792	51.01595158	1676.596712	1053.419628
290	279.22	18.09011712	51.16171237	1678.016912	1054.584816
291	280.28	18.1442058	51.30729431	1679.402969	1055.721624
292	281.34	18.19824439	51.45269883	1680.755061	1056.830218
293	282.40	18.25223337	51.59792735	1682.073371	1057.910765
294	283.46	18.30617317	51.7429813	1683.358083	1058.963437
295	284.52	18.36006426	51.88786208	1684.609383	1059.988407
296	285.59	18.41390707	52.03257108	1685.827463	1060.985853
297	286.65	18.46770205	52.1771097	1687.012517	1061.955951
298	287.71	18.52144963	52.32147931	1688.164741	1062.898884
299	288.78	18.57515027	52.4656813	1689.284335	1063.814835
300	289.84	18.62880439	52.60971702	1690.3715	1064.70399
301	290.91	18.68241242	52.75358782	1691.426443	1065.566537
302	291.97	18.7359748	52.89729506	1692.449371	1066.402667
303	293.04	18.78949194	53.04084006	1693.440494	1067.212572
304	294.11	18.84296428	53.18422416	1694.400028	1067.996448
305	295.17	18.89639224	53.32744866	1695.328187	1068.75449
306	296.24	18.94977622	53.47051489	1696.225191	1069.486898
307	297.31	19.00311665	53.61342413	1697.09126	1070.193873
308	298.38	19.05641394	53.75617768	1697.92662	1070.875618
309	299.45	19.10966849	53.89877681	1698.731497	1071.532336
310	300.52	19.16288072	54.0412228	1699.506118	1072.164236
311	301.59	19.21605102	54.1835169	1700.250717	1072.771524
312	302.66	19.26917979	54.32566037	1700.965526	1073.354411
313	303.73	19.32226744	54.46765445	1701.650782	1073.913108
314	304.80	19.37531434	54.60950037	1702.306723	1074.447829
315	305.87	19.4283209	54.75119935	1702.933588	1074.958788
316	306.94	19.4812875	54.89275261	1703.531622	1075.446202
317	308.01	19.53421452	55.03416134	1704.101068	1075.910288
318	309.08	19.58710235	55.17542674	1704.642173	1076.351265
319	310.15	19.63995135	55.31654999	1705.155186	1076.769353
320	311.23	19.69276191	55.45753226	1705.640357	1077.164774
321	312.30	19.7455344	55.59837472	1706.097938	1077.537752
322	313.37	19.79826918	55.73907851	1706.528185	1077.888509
323	314.44	19.85096662	55.87964479	1706.931353	1078.217271

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
324	315.51	19.90362708	56.02007468	1707.307699	1078.524265
325	316.59	19.95625092	56.1603693	1707.657484	1078.809716
326	317.66	20.00883849	56.30052977	1707.980967	1079.073855
327	318.73	20.06139015	56.44055719	1708.278411	1079.316908
328	319.80	20.11390624	56.58045265	1708.55008	1079.539108
329	320.87	20.1663871	56.72021723	1708.79624	1079.740683
330	321.94	20.21883309	56.859852	1709.017156	1079.921866
331	323.01	20.27124453	56.99935803	1709.213097	1080.082888
332	324.09	20.32362176	57.13873636	1709.384331	1080.223983
333	325.16	20.37596512	57.27798804	1709.531129	1080.345383
334	326.23	20.42827493	57.4171141	1709.653761	1080.447322
335	327.30	20.48055152	57.55611555	1709.752501	1080.530036
336	328.37	20.53279521	57.6949934	1709.827621	1080.593758
337	329.44	20.58500632	57.83374867	1709.879395	1080.638723
338	330.51	20.63718516	57.97238233	1709.908099	1080.665168
339	331.58	20.68933204	58.11089536	1709.914007	1080.673327
340	332.65	20.74144728	58.24928873	1709.897397	1080.663437
341	333.72	20.79353117	58.3875634	1709.858546	1080.635734
342	334.79	20.84558403	58.52572033	1709.79773	1080.590454
343	335.86	20.89760614	58.66376043	1709.715229	1080.527834
344	336.92	20.94959781	58.80168466	1709.61132	1080.448109
345	337.99	21.00155932	58.93949391	1709.486284	1080.351516
346	339.06	21.05349097	59.0771891	1709.340399	1080.238291
347	340.13	21.10539303	59.21477112	1709.173944	1080.108671
348	341.19	21.15726579	59.35224086	1708.987201	1079.96289
349	342.26	21.20910954	59.4895992	1708.780448	1079.801186
350	343.32	21.26092454	59.626847	1708.553967	1079.623794
351	344.39	21.31271106	59.76398511	1708.308036	1079.430948
352	345.45	21.36446938	59.90101439	1708.042937	1079.222883
353	346.52	21.41619975	60.03793567	1707.758949	1078.999834
354	347.58	21.46790245	60.17474977	1707.456353	1078.762035
355	348.65	21.51957773	60.3114575	1707.135427	1078.509719
356	349.71	21.57122584	60.44805968	1706.796453	1078.243119
357	350.77	21.62284704	60.5845571	1706.439708	1077.962467
358	351.83	21.67444157	60.72095053	1706.065471	1077.667996
359	352.89	21.72600969	60.85724077	1705.674022	1077.359936
360	353.95	21.77755163	60.99342856	1705.265637	1077.038517
361	355.01	21.82906763	61.12951467	1704.840595	1076.70397
362	356.07	21.88055793	61.26549984	1704.399171	1076.356523
363	357.13	21.93202277	61.4013848	1703.941643	1075.996403
364	358.19	21.98346236	61.53717029	1703.468286	1075.623839

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
365	359.25	22.03487694	61.67285701	1702.979374	1075.239056
366	360.30	22.08626672	61.80844567	1702.475182	1074.84228
367	361.36	22.13763194	61.94393696	1701.955982	1074.433735
368	362.41	22.1889728	62.07933158	1701.422046	1074.013644
369	363.47	22.24028952	62.2146302	1700.873646	1073.582229
370	364.52	22.29158231	62.34983348	1700.311052	1073.139712
371	365.57	22.34285138	62.48494209	1699.734534	1072.686313
372	366.63	22.39409693	62.61995666	1699.144358	1072.22225
373	367.68	22.44531916	62.75487785	1698.540793	1071.747741
374	368.73	22.49651828	62.88970627	1697.924103	1071.263003
375	369.78	22.54769446	63.02444255	1697.294554	1070.768251
376	370.83	22.59884792	63.1590873	1696.652408	1070.263698
377	371.88	22.64997883	63.29364111	1695.997928	1069.749558
378	372.93	22.70108738	63.42810459	1695.331373	1069.226041
379	373.97	22.75217376	63.56247831	1694.653004	1068.693358
380	375.02	22.80323814	63.69676284	1693.963077	1068.151716
381	376.06	22.85428071	63.83095876	1693.261849	1067.601323
382	377.11	22.90530163	63.96506661	1692.549574	1067.042385
383	378.15	22.95630109	64.09908695	1691.826506	1066.475106
384	379.20	23.00727923	64.2330203	1691.092896	1065.899687
385	380.24	23.05823624	64.36686721	1690.348994	1065.31633
386	381.28	23.10917228	64.50062819	1689.595047	1064.725235
387	382.32	23.1600875	64.63430375	1688.831303	1064.1266
388	383.36	23.21098206	64.7678944	1688.058005	1063.52062
389	384.40	23.26185611	64.90140063	1687.275397	1062.90749
390	385.44	23.31270982	65.03482292	1686.48372	1062.287403
391	386.47	23.36354332	65.16816176	1685.683212	1061.660552
392	387.51	23.41435676	65.30141762	1684.874112	1061.027124
393	388.55	23.46515029	65.43459095	1684.056654	1060.387308
394	389.58	23.51592405	65.56768221	1683.231072	1059.741291
395	390.61	23.56667818	65.70069184	1682.397598	1059.089256
396	391.65	23.6174128	65.83362029	1681.556461	1058.431386
397	392.68	23.66812806	65.96646798	1680.707888	1057.767863
398	393.71	23.71882408	66.09923533	1679.852104	1057.098864
399	394.74	23.769501	66.23192275	1678.989334	1056.424568
400	395.77	23.82015893	66.36453066	1678.119798	1055.74515
401	396.79	23.870798	66.49705945	1677.243716	1055.060784
402	397.82	23.92141834	66.62950951	1676.361303	1054.37164
403	398.85	23.97202005	66.76188122	1675.472776	1053.677889
404	399.87	24.02260326	66.89417496	1674.578347	1052.9797
405	400.90	24.07316808	67.0263911	1673.678226	1052.277237

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
406	401.92	24.12371461	67.15853	1672.772622	1051.570666
407	402.94	24.17424297	67.29059201	1671.86174	1050.860148
408	403.97	24.22475327	67.42257748	1670.945784	1050.145844
409	404.99	24.2752456	67.55448676	1670.024955	1049.427913
410	406.01	24.32572008	67.68632016	1669.099453	1048.70651
411	407.02	24.37617679	67.81807802	1668.169475	1047.981791
412	408.04	24.42661583	67.94976067	1667.235215	1047.253908
413	409.06	24.47703731	68.0813684	1666.296866	1046.523011
414	410.07	24.52744131	68.21290153	1665.354616	1045.78925
415	411.09	24.57782793	68.34436035	1664.408655	1045.052771
416	412.10	24.62819725	68.47574516	1663.459167	1044.31372
417	413.12	24.67854936	68.60705625	1662.506334	1043.572238
418	414.13	24.72888434	68.7382939	1661.550338	1042.828466
419	415.14	24.77920228	68.86945837	1660.591357	1042.082545
420	416.15	24.82950326	69.00054994	1659.629566	1041.33461
421	417.16	24.87978735	69.13156887	1658.665139	1040.584796
422	418.17	24.93005463	69.26251542	1657.698247	1039.833237
423	419.17	24.98030518	69.39338983	1656.729058	1039.080064
424	420.18	25.03053908	69.52419235	1655.757738	1038.325405
425	421.18	25.08075638	69.65492321	1654.784451	1037.569388
426	422.19	25.13095716	69.78558266	1653.80936	1036.812137
427	423.19	25.18114149	69.91617091	1652.832622	1036.053777
428	424.19	25.23130943	70.0466882	1651.854394	1035.294428
429	425.20	25.28146104	70.17713473	1650.874831	1034.534209
430	426.20	25.3315964	70.30751071	1649.894084	1033.773238
431	427.19	25.38171555	70.43781636	1648.912302	1033.01163
432	428.19	25.43181857	70.56805187	1647.929634	1032.249499
433	429.19	25.48190549	70.69821743	1646.946223	1031.486956
434	430.19	25.53197639	70.82831325	1645.962212	1030.72411
435	431.18	25.5820313	70.95833949	1644.97774	1029.96107
436	432.18	25.6320703	71.08829635	1643.992946	1029.197941
437	433.17	25.68209342	71.21818401	1643.007964	1028.434827
438	434.16	25.73210071	71.34800262	1642.022926	1027.671829
439	435.15	25.78209223	71.47775235	1641.037965	1026.909048
440	436.14	25.83206802	71.60743338	1640.053207	1026.146583
441	437.13	25.88202812	71.73704586	1639.068779	1025.384528
442	438.12	25.93197258	71.86658993	1638.084804	1024.62298
443	439.11	25.98190143	71.99606575	1637.101404	1023.86203
444	440.10	26.03181473	72.12547346	1636.118696	1023.101769
445	441.08	26.0817125	72.25481321	1635.136798	1022.342287
446	442.07	26.13159479	72.38408513	1634.155824	1021.583669

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
447	443.05	26.18146164	72.51328934	1633.175886	1020.826003
448	444.03	26.23131307	72.64242599	1632.197093	1020.069371
449	445.02	26.28114912	72.77149519	1631.219554	1019.313854
450	446.00	26.33096983	72.90049707	1630.243374	1018.559534
451	446.98	26.38077523	73.02943173	1629.268656	1017.806487
452	447.96	26.43056534	73.1582993	1628.2955	1017.054792
453	448.93	26.4803402	73.28709989	1627.324006	1016.304522
454	449.91	26.53009984	73.4158336	1626.354271	1015.555751
455	450.89	26.57984427	73.54450052	1625.386387	1014.808549
456	451.86	26.62957354	73.67310077	1624.420449	1014.062988
457	452.84	26.67928765	73.80163444	1623.456545	1013.319134
458	453.81	26.72898665	73.93010162	1622.494765	1012.577054
459	454.78	26.77867054	74.05850241	1621.535193	1011.836813
460	455.76	26.82833935	74.18683687	1620.577915	1011.098474
461	456.73	26.87799311	74.31510511	1619.623011	1010.362099
462	457.70	26.92763183	74.4433072	1618.670563	1009.627747
463	458.66	26.97725552	74.57144322	1617.720647	1008.895477
464	459.63	27.02686422	74.69951324	1616.773339	1008.165346
465	460.60	27.07645794	74.82751734	1615.828714	1007.437408
466	461.57	27.12603669	74.95545559	1614.886844	1006.711718
467	462.53	27.17560048	75.08332804	1613.947797	1005.988328
468	463.49	27.22514934	75.21113477	1613.011643	1005.267288
469	464.46	27.27468328	75.33887584	1612.078448	1004.548648
470	465.42	27.32420231	75.46655131	1611.148276	1003.832456
471	466.38	27.37370644	75.59416123	1610.221189	1003.118758
472	467.34	27.42319569	75.72170565	1609.297248	1002.407599
473	468.30	27.47267006	75.84918464	1608.376512	1001.699022
474	469.26	27.52212956	75.97659823	1607.459038	1000.99307
475	470.22	27.57157421	76.10394649	1606.544881	1000.289783
476	471.18	27.62100402	76.23122944	1605.634095	999.5892012
477	472.13	27.67041899	76.35844715	1604.726732	998.8913621
478	473.09	27.71981913	76.48559964	1603.822842	998.1963027
479	474.04	27.76920444	76.61268696	1602.922472	997.5040584
480	475.00	27.81857494	76.73970914	1602.025671	996.8146634
481	475.95	27.86793062	76.86666623	1601.132482	996.1281507
482	476.90	27.91727151	76.99355825	1600.242951	995.4445518
483	477.85	27.96659759	77.12038524	1599.357117	994.7638974
484	478.80	28.01590887	77.24714723	1598.475023	994.0862165
485	479.75	28.06520536	77.37384425	1597.596706	993.4115374
486	480.70	28.11448706	77.50047632	1596.722204	992.7398867
487	481.65	28.16375397	77.62704347	1595.851553	992.0712904

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
488	482.59	28.2130061	77.75354573	1594.984786	991.4057729
489	483.54	28.26224345	77.87998312	1594.121938	990.7433576
490	484.48	28.31146601	78.00635566	1593.263039	990.0840671
491	485.43	28.36067379	78.13266337	1592.408119	989.4279225
492	486.37	28.4098668	78.25890627	1591.557207	988.7749441
493	487.31	28.45904502	78.38508438	1590.71033	988.1251509
494	488.26	28.50820846	78.51119772	1589.867513	987.4785613
495	489.20	28.55735713	78.63724629	1589.028783	986.8351922
496	490.14	28.60649101	78.76323012	1588.194161	986.1950598
497	491.08	28.65561011	78.88914921	1587.363669	985.5581792
498	492.02	28.70471442	79.01500359	1586.537329	984.9245647
499	492.95	28.75380395	79.14079325	1585.71516	984.2942295
500	493.89	28.80287869	79.26651822	1584.89718	983.6671858
501	494.83	28.85193864	79.39217849	1584.083406	983.0434452
502	495.76	28.9009838	79.51777409	1583.273854	982.4230181
503	496.70	28.95001416	79.64330501	1582.468538	981.8059142
504	497.63	28.99902972	79.76877126	1581.667473	981.1921422
505	498.56	29.04803048	79.89417285	1580.870672	980.5817101
506	499.49	29.09701643	80.01950979	1580.078144	979.9746252
507	500.43	29.14598757	80.14478207	1579.289901	979.3708935
508	501.36	29.1949439	80.26998971	1578.505952	978.7705208
509	502.29	29.24388541	80.3951327	1577.726305	978.1735117
510	503.22	29.2928121	80.52021104	1576.950968	977.5798703
511	504.14	29.34172397	80.64522475	1576.179946	976.9895999
512	505.07	29.390621	80.77017382	1575.413246	976.4027029
513	506.00	29.43950319	80.89505825	1574.650872	975.8191811
514	506.93	29.48837054	81.01987805	1573.892826	975.2390359
515	507.85	29.53722305	81.1446332	1573.139112	974.6622675
516	508.78	29.5860607	81.26932372	1572.389732	974.0888757
517	509.70	29.6348835	81.3939496	1571.644686	973.5188599
518	510.62	29.68369144	81.51851084	1570.903974	972.9522184
519	511.55	29.7324845	81.64300744	1570.167596	972.3889491
520	512.47	29.7812627	81.76743939	1569.435549	971.8290494
521	513.39	29.83002601	81.8918067	1568.707832	971.272516
522	514.31	29.87877445	82.01610936	1567.984441	970.719345
523	515.23	29.92750799	82.14034736	1567.265373	970.169532
524	516.15	29.97622663	82.26452072	1566.550622	969.6230721
525	517.07	30.02493038	82.38862942	1565.840184	969.0799598
526	517.98	30.07361921	82.51267345	1565.134052	968.540189
527	518.90	30.12229314	82.63665282	1564.43222	968.0037534
528	519.82	30.17095214	82.76056753	1563.73468	967.4706458

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
529	520.73	30.21959622	82.88441756	1563.041424	966.9408588
530	521.65	30.26822536	83.00820292	1562.352445	966.4143846
531	522.56	30.31683957	83.1319236	1561.667731	965.8912147
532	523.47	30.36543884	83.2555796	1560.987275	965.3713403
533	524.39	30.41402316	83.37917091	1560.311065	964.8547523
534	525.30	30.46259252	83.50269753	1559.63909	964.341441
535	526.21	30.51114692	83.62615945	1558.971339	963.8313963
536	527.12	30.55968636	83.74955668	1558.3078	963.3246078
537	528.03	30.60821083	83.8728892	1557.648461	962.8210648
538	528.94	30.65672031	83.99615702	1556.993308	962.3207561
539	529.85	30.70521482	84.11936012	1556.342329	961.8236703
540	530.76	30.75369433	84.24249851	1555.695508	961.3297954
541	531.66	30.80215885	84.36557218	1555.052833	960.8391193
542	532.57	30.85060837	84.48858114	1554.414287	960.3516296
543	533.48	30.89904288	84.61152536	1553.779857	959.8673135
544	534.38	30.94746239	84.73440486	1553.149525	959.3861579
545	535.29	30.99586687	84.85721963	1552.523277	958.9081494
546	536.19	31.04425634	84.97996966	1551.901096	958.4332746
547	537.10	31.09263078	85.10265496	1551.282965	957.9615193
548	538.00	31.14099019	85.22527552	1550.668867	957.4928696
549	538.90	31.18933456	85.34783133	1550.058785	957.0273111
550	539.80	31.23766389	85.4703224	1549.4527	956.5648291
551	540.70	31.28597817	85.59274873	1548.850596	956.1054089
552	541.60	31.3342774	85.71511031	1548.252454	955.6490354
553	542.50	31.38256158	85.83740714	1547.658254	955.1956933
554	543.40	31.4308307	85.95963921	1547.067979	954.7453673
555	544.30	31.47908475	86.08180654	1546.481609	954.2980417
556	545.20	31.52732373	86.20390911	1545.899125	953.8537007
557	546.10	31.57554764	86.32594693	1545.320506	953.4123283
558	547.00	31.62375648	86.44792	1544.745734	952.9739086
559	547.89	31.67195023	86.56982832	1544.174788	952.5384251
560	548.79	31.7201289	86.69167188	1543.607648	952.1058615
561	549.68	31.76829248	86.81345069	1543.044294	951.6762012
562	550.58	31.81644098	86.93516475	1542.484704	951.2494276
563	551.47	31.86457437	87.05681407	1541.928859	950.8255239
564	552.37	31.91269267	87.17839863	1541.376736	950.4044731
565	553.26	31.96079586	87.29991845	1540.828315	949.9862584
566	554.15	32.00888396	87.42137352	1540.283576	949.5708625
567	555.04	32.05695694	87.54276386	1539.742495	949.1582683
568	555.93	32.10501481	87.66408946	1539.205052	948.7484585
569	556.82	32.15305758	87.78535032	1538.671225	948.3414158

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
570	557.72	32.20108522	87.90654645	1538.140993	947.9371227
571	558.60	32.24909775	88.02767786	1537.614333	947.5355618
572	559.49	32.29709516	88.14874455	1537.091224	947.1367155
573	560.38	32.34507745	88.26974651	1536.571643	946.7405663
574	561.27	32.39304462	88.39068377	1536.055569	946.3470965
575	562.16	32.44099665	88.51155632	1535.542979	945.9562884
576	563.04	32.48893357	88.63236417	1535.033851	945.5681243
577	563.93	32.53685535	88.75310732	1534.528164	945.1825865
578	564.82	32.584762	88.87378579	1534.025893	944.7996573
579	565.70	32.63265353	88.99439957	1533.527018	944.4193188
580	566.59	32.68052992	89.11494869	1533.031515	944.0415532
581	567.47	32.72839117	89.23543313	1532.539363	943.6663429
582	568.36	32.7762373	89.35585292	1532.050539	943.2936699
583	569.24	32.82406829	89.47620807	1531.56502	942.9235164
584	570.12	32.87188414	89.59649857	1531.082784	942.5558648
585	571.00	32.91968486	89.71672444	1530.603809	942.1906971
586	571.89	32.96747044	89.83688569	1530.128072	941.8279957
587	572.77	33.01524089	89.95698233	1529.65555	941.4677428
588	573.65	33.0629962	90.07701437	1529.186222	941.1099206
589	574.53	33.11073638	90.19698182	1528.720065	940.7545115
590	575.41	33.15846142	90.31688469	1528.257056	940.4014978
591	576.29	33.20617133	90.43672299	1527.797174	940.0508619
592	577.17	33.25386611	90.55649675	1527.340395	939.7025862
593	578.04	33.30154575	90.67620595	1526.886698	939.3566532
594	578.92	33.34921026	90.79585063	1526.436061	939.0130452
595	579.80	33.39685964	90.9154308	1525.98846	938.671745
596	580.68	33.44449389	91.03494646	1525.543875	938.3327351
597	581.55	33.49211301	91.15439763	1525.102283	937.9959981
598	582.43	33.53971701	91.27378433	1524.663663	937.6615167
599	583.30	33.58730588	91.39310657	1524.227991	937.3292738
600	584.18	33.63487963	91.51236436	1523.795247	936.9992521
601	585.05	33.68243826	91.63155773	1523.365408	936.6714345
602	585.93	33.72998177	91.75068668	1522.938454	936.3458041
603	586.80	33.77751016	91.86975123	1522.514362	936.0223439
604	587.67	33.82502344	91.98875141	1522.093111	935.7010369
605	588.55	33.87252161	92.10768722	1521.674679	935.3818663
606	589.42	33.92000466	92.22655868	1521.259045	935.0648155
607	590.29	33.96747261	92.34536582	1520.846188	934.7498678
608	591.16	34.01492546	92.46410864	1520.436086	934.4370065
609	592.03	34.06236321	92.58278718	1520.028719	934.1262152
610	592.90	34.10978586	92.70140144	1519.624066	933.8174776

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
611	593.77	34.15719342	92.81995144	1519.222106	933.5107772
612	594.64	34.20458589	92.93843721	1518.822818	933.2060978
613	595.51	34.25196327	93.05685877	1518.426181	932.9034234
614	596.38	34.29932556	93.17521613	1518.032174	932.6027378
615	597.25	34.34667278	93.29350932	1517.640779	932.3040251
616	598.12	34.39400493	93.41173835	1517.251973	932.0072695
617	598.98	34.441322	93.52990325	1516.865738	931.7124551
618	599.85	34.48862401	93.64800405	1516.482052	931.4195664
619	600.72	34.53591095	93.76604075	1516.100897	931.1285877
620	601.58	34.58318284	93.88401338	1515.722251	930.8395035
621	602.45	34.63043967	94.00192198	1515.346096	930.5522986
622	603.31	34.67768145	94.11976655	1514.972412	930.2669576
623	604.18	34.72490819	94.23754712	1514.601179	929.9834653
624	605.04	34.77211989	94.35526372	1514.232378	929.7018068
625	605.91	34.81931656	94.47291636	1513.86599	929.421967
626	606.77	34.8664982	94.59050508	1513.501996	929.1439311
627	607.63	34.91366482	94.7080299	1513.140377	928.8676843
628	608.50	34.96081641	94.82549084	1512.781114	928.5932119
629	609.36	35.007953	94.94288793	1512.424188	928.3204996
630	610.22	35.05507458	95.06022119	1512.06958	928.0495327
631	611.08	35.10218116	95.17749065	1511.717274	927.780297
632	611.94	35.14927274	95.29469634	1511.367249	927.5127783
633	612.80	35.19634934	95.41183827	1511.019488	927.2469625
634	613.67	35.24341095	95.52891649	1510.673973	926.9828355
635	614.53	35.29045758	95.645931	1510.330686	926.7203835
636	615.38	35.33748925	95.76288185	1509.98961	926.4595926
637	616.24	35.38450595	95.87976906	1509.650726	926.2004492
638	617.10	35.43150769	95.99659265	1509.314017	925.9429398
639	617.96	35.47849448	96.11335266	1508.979466	925.6870508
640	618.82	35.52546633	96.23004911	1508.647056	925.432769
641	619.68	35.57242324	96.34668202	1508.316769	925.180081
642	620.53	35.61936522	96.46325144	1507.988589	924.9289737
643	621.39	35.66629227	96.57975739	1507.662499	924.6794342
644	622.25	35.71320441	96.69619989	1507.338481	924.4314495
645	623.10	35.76010164	96.81257898	1507.016521	924.1850067
646	623.96	35.80698397	96.92889469	1506.696601	923.9400933
647	624.81	35.8538514	97.04514705	1506.378704	923.6966966
648	625.67	35.90070395	97.16133608	1506.062816	923.4548041
649	626.52	35.94754161	97.27746181	1505.748919	923.2144035
650	627.38	35.9943644	97.39352207	1505.436999	922.9754824
651	628.23	36.04117233	97.50951431	1505.127039	922.7380288

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
652	629.09	36.0879654	97.62543854	1504.819024	922.5020305
653	629.94	36.13474362	97.74129478	1504.512938	922.2674757
654	630.79	36.18150701	97.85708306	1504.208766	922.0343525
655	631.64	36.22825555	97.9728034	1503.906493	921.8026492
656	632.50	36.27498928	98.08845582	1503.606105	921.5723541
657	633.35	36.32170819	98.20404033	1503.307585	921.3434559
658	634.20	36.36841228	98.31955697	1503.01092	921.115943
659	635.05	36.41510158	98.43500575	1502.716094	920.8898042
660	635.90	36.46177609	98.5503867	1502.423094	920.6650282
661	636.75	36.50843582	98.66569984	1502.131905	920.441604
662	637.60	36.55508077	98.78094519	1501.842512	920.2195207
663	638.45	36.60171095	98.89612278	1501.554902	919.9987672
664	639.30	36.64832638	99.01123262	1501.26906	919.7793329
665	640.15	36.69492706	99.12627474	1500.984974	919.561207
666	641.00	36.741513	99.24124917	1500.702628	919.3443789
667	641.84	36.78808421	99.35615593	1500.422009	919.1288382
668	642.69	36.8346407	99.47099503	1500.143105	918.9145745
669	643.54	36.88118248	99.58576651	1499.865901	918.7015775
670	644.39	36.92770955	99.7004704	1499.590384	918.4898369
671	645.23	36.97422193	99.8151067	1499.316542	918.2793428
672	646.08	37.02071963	99.92967546	1499.044361	918.070085
673	646.93	37.06720265	100.0441767	1498.773828	917.8620538
674	647.77	37.113671	100.1586104	1498.504931	917.6552392
675	648.62	37.1601247	100.2729767	1498.237657	917.4496315
676	649.46	37.20656375	100.3872754	1497.971993	917.2452212
677	650.31	37.25298816	100.5015068	1497.707928	917.0419987
678	651.15	37.29939795	100.6156708	1497.445448	916.8399545
679	652.00	37.34579311	100.7297674	1497.184542	916.6390794
680	652.84	37.39217367	100.8437966	1496.925198	916.439364
681	653.68	37.43853963	100.9577585	1496.667403	916.2407992
682	654.53	37.48489099	101.0716531	1496.411147	916.0433759
683	655.37	37.53122778	101.1854805	1496.156417	915.8470851
684	656.21	37.57755	101.2992406	1495.903201	915.6519179
685	657.05	37.62385766	101.4129334	1495.651488	915.4578655
686	657.90	37.67015077	101.5265591	1495.401267	915.2649192
687	658.74	37.71642934	101.6401176	1495.152527	915.0730702
688	659.58	37.76269338	101.753609	1494.905256	914.8823102
689	660.42	37.8089429	101.8670332	1494.659444	914.6926305
690	661.26	37.85517792	101.9803904	1494.415079	914.5040227
691	662.10	37.90139843	102.0936805	1494.17215	914.3164787
692	662.94	37.94760445	102.2069036	1493.930647	914.1299901

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
693	663.78	37.993796	102.3200596	1493.69056	913.9445487
694	664.62	38.03997307	102.4331487	1493.451877	913.7601466
695	665.46	38.08613569	102.5461708	1493.214588	913.5767757
696	666.30	38.13228394	102.6591263	1492.978772	913.394428
697	667.14	38.1784181	102.7720159	1492.744718	913.2131069
698	667.98	38.22453819	102.8848397	1492.512366	913.0328507
699	668.81	38.2706442	102.9975977	1492.281669	912.8536828
700	669.65	38.31673615	103.1102899	1492.052588	912.6756157
701	670.49	38.36281404	103.2229164	1491.825092	912.4986545
702	671.33	38.40887788	103.3354771	1491.599152	912.322799
703	672.16	38.45492768	103.4479721	1491.374745	912.1480455
704	673.00	38.50096344	103.5604014	1491.151847	911.9743876
705	673.83	38.54698518	103.672765	1490.93044	911.8018172
706	674.67	38.5929929	103.7850629	1490.710504	911.6303254
707	675.51	38.63898662	103.8972953	1490.492022	911.4599022
708	676.34	38.68496634	104.009462	1490.274977	911.2905373
709	677.18	38.73093206	104.1215631	1490.059353	911.1222201
710	678.01	38.7768838	104.2335986	1489.845134	910.9549401
711	678.84	38.82282157	104.3455686	1489.632305	910.7886863
712	679.68	38.86874538	104.4574731	1489.420852	910.6234483
713	680.51	38.91465523	104.569312	1489.21076	910.4592155
714	681.35	38.96055114	104.6810855	1489.002014	910.2959774
715	682.18	39.00643311	104.7927936	1488.794602	910.1337237
716	683.01	39.05230116	104.9044362	1488.58851	909.9724444
717	683.84	39.09815529	105.0160134	1488.381787	909.8140665
718	684.68	39.14399553	105.1275253	1488.174527	909.6583374
719	685.51	39.18982191	105.2389719	1487.967188	909.5046573
720	686.34	39.23563446	105.3503534	1487.760088	909.3526091
721	687.17	39.28143319	105.4616698	1487.553448	909.2019026
722	688.00	39.32721812	105.5729211	1487.347422	909.0523363
723	688.84	39.37298927	105.6841074	1487.142115	908.9037702
724	689.67	39.41874666	105.7952287	1486.937599	908.7561069
725	690.50	39.46449029	105.906285	1486.733926	908.6092787
726	691.33	39.51022018	106.0172765	1486.53113	908.4632385
727	692.16	39.55593635	106.1282031	1486.329232	908.3179533
728	692.99	39.60163881	106.2390649	1486.128248	908.1733997
729	693.82	39.64732757	106.3498619	1485.928189	908.0295614
730	694.64	39.69300264	106.4605941	1485.729061	907.8864265
731	695.47	39.73866404	106.5712616	1485.530866	907.7439864
732	696.30	39.78431177	106.6818644	1485.333607	907.6022345
733	697.13	39.82994586	106.7924025	1485.137285	907.4611658

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
734	697.96	39.87556631	106.902876	1484.941898	907.3207763
735	698.79	39.92117313	107.0132849	1484.747445	907.1810625
736	699.61	39.96676634	107.1236293	1484.553925	907.0420216
737	700.44	40.01234596	107.2339091	1484.361336	906.9036508
738	701.27	40.05791198	107.3441244	1484.169675	906.7659476
739	702.10	40.10346442	107.4542752	1483.97894	906.6289096
740	702.92	40.14900331	107.5643616	1483.789128	906.4925344
741	703.75	40.19452864	107.6743837	1483.600236	906.3568196
742	704.57	40.24004043	107.7843413	1483.412261	906.221763
743	705.40	40.28553869	107.8942346	1483.225201	906.0873621
744	706.23	40.33102343	108.0040636	1483.039052	905.9536145
745	707.05	40.37649467	108.1138283	1482.853812	905.8205179
746	707.88	40.42195241	108.2235288	1482.669475	905.6880696
747	708.70	40.46739668	108.333165	1482.48604	905.5562673
748	709.53	40.51282747	108.4427371	1482.303504	905.4251084
749	710.35	40.55824481	108.552245	1482.121861	905.2945904
750	711.17	40.6036487	108.6616888	1481.94111	905.1647105
751	712.00	40.64903915	108.7710686	1481.761246	905.0354663
752	712.82	40.69441618	108.8803842	1481.582266	904.9068549
753	713.64	40.7397798	108.9896359	1481.404166	904.7788738
754	714.47	40.78513003	109.0988235	1481.226943	904.6515202
755	715.29	40.83046686	109.2079472	1481.050593	904.5247913
756	716.11	40.87579032	109.3170069	1480.875113	904.3986845
757	716.94	40.92110041	109.4260027	1480.700497	904.2731968
758	717.76	40.96639714	109.5349347	1480.526744	904.1483255
759	718.58	41.01168054	109.6438028	1480.353848	904.0240678
760	719.40	41.05695061	109.7526071	1480.181806	903.9004207
761	720.22	41.10220735	109.8613476	1480.010615	903.7773816
762	721.04	41.14745079	109.9700244	1479.84027	903.6549474
763	721.86	41.19268093	110.0786375	1479.670767	903.5331152
764	722.69	41.23789779	110.1871868	1479.502104	903.4118823
765	723.51	41.28310138	110.2956725	1479.334274	903.2912456
766	724.33	41.3282917	110.4040946	1479.167276	903.1712023
767	725.15	41.37346877	110.5124531	1479.001104	903.0517494
768	725.97	41.4186326	110.620748	1478.835756	902.932884
769	726.78	41.4637832	110.7289793	1478.671226	902.8146032
770	727.60	41.50892059	110.8371472	1478.507511	902.6969039
771	728.42	41.55404477	110.9452515	1478.344608	902.5797834
772	729.24	41.59915576	111.0532925	1478.182511	902.4632386
773	730.06	41.64425356	111.16127	1478.021218	902.3472665
774	730.88	41.68933819	111.2691841	1477.860724	902.2318643

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
775	731.70	41.73440966	111.3770348	1477.701025	902.117029
776	732.52	41.77946799	111.4848222	1477.542117	902.0027575
777	733.33	41.82451317	111.5925464	1477.383997	901.8890471
778	734.15	41.86954523	111.7002072	1477.22666	901.7758947
779	734.97	41.91456417	111.8078048	1477.070102	901.6632975
780	735.78	41.95957	111.9153392	1476.91432	901.5512524
781	736.60	42.00456274	112.0228105	1476.75931	901.4397565
782	737.42	42.0495424	112.1302185	1476.605067	901.328807
783	738.23	42.09450899	112.2375635	1476.451587	901.2184009
784	739.05	42.13946252	112.3448453	1476.298868	901.1085352
785	739.87	42.18440299	112.4520641	1476.146905	900.9992072
786	740.68	42.22933043	112.5592199	1475.995693	900.8904138
787	741.50	42.27424485	112.6663126	1475.84523	900.7821522
788	742.31	42.31914624	112.7733424	1475.69551	900.6744196
789	743.13	42.36403463	112.8803092	1475.546532	900.5672129
790	743.94	42.40891003	112.9872131	1475.398289	900.4605295
791	744.76	42.45377244	113.0940542	1475.25078	900.3543664
792	745.57	42.49862188	113.2008323	1475.103999	900.2487208
793	746.38	42.54345836	113.3075477	1474.957943	900.1435899
794	747.20	42.58828188	113.4142002	1474.812609	900.0389708
795	748.01	42.63309247	113.52079	1474.667992	899.9348607
796	748.83	42.67789013	113.627317	1474.524089	899.8312569
797	749.64	42.72267487	113.7337814	1474.380896	899.7281565
798	750.45	42.76744671	113.840183	1474.238409	899.6255568
799	751.26	42.81220564	113.946522	1474.096625	899.523455
800	752.08	42.8569517	114.0527983	1473.955539	899.4218484
801	752.89	42.90168488	114.1590121	1473.815149	899.3207342
802	753.70	42.94640519	114.2651633	1473.67545	899.2201097
803	754.51	42.99111265	114.371252	1473.536439	899.1199722
804	755.33	43.03580727	114.4772781	1473.398112	899.020319
805	756.14	43.08048906	114.5832418	1473.260466	898.9211474
806	756.95	43.12515802	114.689143	1473.123496	898.8224547
807	757.76	43.16981418	114.7949819	1472.9872	898.7242384
808	758.57	43.21445754	114.9007583	1472.851574	898.6264956
809	759.38	43.25908811	115.0064723	1472.716615	898.5292239
810	760.19	43.30370585	115.1121241	1472.582318	898.4324206
811	761.00	43.34830984	115.2177135	1472.44868	898.3360831
812	761.81	43.39290006	115.3232406	1472.315698	898.2402087
813	762.62	43.43747655	115.4287055	1472.183369	898.1447951
814	763.43	43.48203929	115.5341082	1472.051688	898.0498395
815	764.24	43.5265883	115.6394486	1471.920653	897.9553394

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
816	765.05	43.5711236	115.744727	1471.79026	897.8612924
817	765.86	43.61564518	115.8499431	1471.660506	897.7676959
818	766.67	43.66015306	115.9550972	1471.531387	897.6745475
819	767.48	43.70464724	116.0601892	1471.4029	897.5818445
820	768.29	43.74912774	116.1652192	1471.275042	897.4895846
821	769.09	43.79359456	116.2701871	1471.147809	897.3977654
822	769.90	43.83804772	116.3750931	1471.021198	897.3063843
823	770.71	43.88248721	116.4799371	1470.895206	897.215439
824	771.52	43.92691305	116.5847191	1470.769829	897.1249271
825	772.32	43.97132525	116.6894393	1470.645065	897.0348461
826	773.13	44.01572381	116.7940976	1470.52091	896.9451937
827	773.94	44.06010875	116.898694	1470.397361	896.8559675
828	774.75	44.10448007	117.0032286	1470.274414	896.7671652
829	775.55	44.14883778	117.1077014	1470.152067	896.6787844
830	776.36	44.19318189	117.2121125	1470.030316	896.5908228
831	777.17	44.2375124	117.3164618	1469.909159	896.5032782
832	777.97	44.28182934	117.4207494	1469.788592	896.4161481
833	778.78	44.32613269	117.5249754	1469.668612	896.3294304
834	779.58	44.37042248	117.6291396	1469.549216	896.2431227
835	780.39	44.41469871	117.7332423	1469.430401	896.1572229
836	781.19	44.45896139	117.8372834	1469.312164	896.0717287
837	782.00	44.50321053	117.9412629	1469.194502	895.9866378
838	782.80	44.54744613	118.0451809	1469.077412	895.9019481
839	783.61	44.59166821	118.1490374	1468.960891	895.8176573
840	784.41	44.63587677	118.2528324	1468.844936	895.7337633
841	785.22	44.68007182	118.3565659	1468.729545	895.6502639
842	786.02	44.72425337	118.460238	1468.614713	895.5671571
843	786.83	44.76842143	118.5638487	1468.500439	895.4844405
844	787.63	44.812576	118.6673981	1468.386719	895.4021121
845	788.43	44.8567171	118.7708861	1468.273551	895.3201699
846	789.24	44.90084473	118.8743128	1468.160931	895.2386116
847	790.04	44.94495889	118.9776782	1468.048858	895.1574353
848	790.84	44.98905961	119.0809824	1467.937327	895.0766388
849	791.65	45.03314688	119.1842253	1467.826337	894.9962201
850	792.45	45.07722072	119.2874071	1467.715885	894.9161772
851	793.25	45.12128113	119.3905276	1467.605967	894.836508
852	794.05	45.16532812	119.4935871	1467.496581	894.7572105
853	794.85	45.20936169	119.5965854	1467.387725	894.6782827
854	795.66	45.25338187	119.6995226	1467.279395	894.5997226
855	796.46	45.29738864	119.8023988	1467.171589	894.5215282
856	797.26	45.34138203	119.9052139	1467.064305	894.4436977

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
857	798.06	45.38536204	120.007968	1466.957539	894.3662289
858	798.86	45.42932868	120.1106612	1466.851289	894.28912
859	799.66	45.47328195	120.2132934	1466.745552	894.2123691
860	800.46	45.51722187	120.3158646	1466.640327	894.1359743
861	801.26	45.56114844	120.418375	1466.535609	894.0599336
862	802.06	45.60506167	120.5208245	1466.431397	893.9842451
863	802.87	45.64896157	120.6232132	1466.327688	893.908907
864	803.67	45.69284814	120.7255411	1466.22448	893.8339175
865	804.47	45.7367214	120.8278082	1466.12177	893.7592746
866	805.26	45.78058135	120.9300145	1466.019555	893.6849765
867	806.06	45.82442799	121.0321601	1465.917833	893.6110214
868	806.86	45.86826135	121.134245	1465.816602	893.5374076
869	807.66	45.91208141	121.2362692	1465.715859	893.4641331
870	808.46	45.9558882	121.3382328	1465.615602	893.3911962
871	809.26	45.99968172	121.4401358	1465.515828	893.3185951
872	810.06	46.04346198	121.5419781	1465.416534	893.246328
873	810.86	46.08722898	121.6437599	1465.317719	893.1743932
874	811.66	46.13098273	121.7454812	1465.219381	893.102789
875	812.45	46.17472325	121.847142	1465.121515	893.0315136
876	813.25	46.21845053	121.9487423	1465.024122	892.9605652
877	814.05	46.26216459	122.0502821	1464.927197	892.8899423
878	814.85	46.30586543	122.1517615	1464.830739	892.819643
879	815.64	46.34955306	122.2531805	1464.734745	892.7496656
880	816.44	46.39322749	122.3545391	1464.639213	892.6800086
881	817.24	46.43688872	122.4558374	1464.544142	892.6106702
882	818.04	46.48053677	122.5570754	1464.449527	892.5416488
883	818.83	46.52417164	122.6582531	1464.355368	892.4729427
884	819.63	46.56779334	122.7593705	1464.261663	892.4045503
885	820.43	46.61140187	122.8604276	1464.168408	892.33647
886	821.22	46.65499725	122.9614246	1464.075601	892.2687002
887	822.02	46.69857948	123.0623614	1463.983241	892.2012391
888	822.81	46.74214856	123.163238	1463.891326	892.1340854
889	823.61	46.78570451	123.2640545	1463.799852	892.0672373
890	824.40	46.82924734	123.364811	1463.708819	892.0006933
891	825.20	46.87277704	123.4655073	1463.618223	891.9344519
892	826.00	46.91629363	123.5661436	1463.528063	891.8685114
893	826.79	46.95979711	123.6667198	1463.438337	891.8028704
894	827.59	47.0032875	123.7672361	1463.349042	891.7375273
895	828.38	47.04676479	123.8676924	1463.260176	891.6724805
896	829.17	47.09022901	123.9680888	1463.171738	891.6077286
897	829.97	47.13368014	124.0684253	1463.083725	891.5432701

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
898	830.76	47.17711821	124.1687018	1462.996135	891.4791035
899	831.56	47.22054321	124.2689186	1462.908967	891.4152272
900	832.35	47.26395516	124.3690754	1462.822217	891.3516398
901	833.14	47.30735406	124.4691725	1462.735885	891.2883399
902	833.94	47.35073992	124.5692098	1462.649968	891.2253259
903	834.73	47.39411275	124.6691874	1462.564464	891.1625965
904	835.52	47.43747255	124.7691052	1462.479372	891.1001502
905	836.32	47.48081933	124.8689634	1462.394688	891.0379855
906	837.11	47.5241531	124.9687618	1462.310412	890.976101
907	837.90	47.56747386	125.0685007	1462.226541	890.9144954
908	838.70	47.61078162	125.1681799	1462.143074	890.8531672
909	839.49	47.6540764	125.2677995	1462.060008	890.7921151
910	840.28	47.69735819	125.3673596	1461.977342	890.7313375
911	841.07	47.740627	125.4668601	1461.895073	890.6708333
912	841.86	47.78388284	125.5663011	1461.813201	890.6106009
913	842.66	47.82712572	125.6656826	1461.731722	890.5506391
914	843.45	47.87035564	125.7650047	1461.650635	890.4909464
915	844.24	47.91357261	125.8642673	1461.569939	890.4315216
916	845.03	47.95677664	125.9634706	1461.489631	890.3723633
917	845.82	47.99996773	126.0626145	1461.40971	890.3134701
918	846.61	48.04314589	126.161699	1461.330173	890.2548408
919	847.40	48.08631113	126.2607242	1461.25102	890.1964741
920	848.19	48.12946346	126.3596901	1461.172248	890.1383686
921	848.98	48.17260287	126.4585967	1461.093855	890.080523
922	849.77	48.21572939	126.5574441	1461.015839	890.0229361
923	850.56	48.25884301	126.6562323	1460.9382	889.9656065
924	851.35	48.30194374	126.7549612	1460.860935	889.9085331
925	852.14	48.34503158	126.853631	1460.784042	889.8517145
926	852.93	48.38810656	126.9522417	1460.70752	889.7951495
927	853.72	48.43116866	127.0507933	1460.631367	889.7388369
928	854.51	48.4742179	127.1492858	1460.555581	889.6827753
929	855.30	48.51725429	127.2477192	1460.480161	889.6269637
930	856.09	48.56027783	127.3460936	1460.405104	889.5714006
931	856.88	48.60328852	127.444409	1460.33041	889.516085
932	857.67	48.64628638	127.5426654	1460.256076	889.4610156
933	858.46	48.68927142	127.6408629	1460.182101	889.4061911
934	859.24	48.73224362	127.7390014	1460.108484	889.3516105
935	860.03	48.77520302	127.837081	1460.035222	889.2972726
936	860.82	48.8181496	127.9351018	1459.962313	889.243176
937	861.61	48.86108338	128.0330637	1459.889758	889.1893197
938	862.40	48.90400436	128.1309668	1459.817552	889.1357026

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
939	863.18	48.94691256	128.2288111	1459.745696	889.0823233
940	863.97	48.98980797	128.3265966	1459.674188	889.0291808
941	864.76	49.0326906	128.4243234	1459.603025	888.976274
942	865.55	49.07556046	128.5219915	1459.532207	888.9236016
943	866.33	49.11841756	128.6196009	1459.461732	888.8711626
944	867.12	49.1612619	128.7171516	1459.391597	888.8189559
945	867.91	49.20409349	128.8146437	1459.321803	888.7669802
946	868.69	49.24691233	128.9120772	1459.252346	888.7152346
947	869.48	49.28971843	129.009452	1459.183227	888.6637178
948	870.27	49.3325118	129.1067684	1459.114442	888.6124288
949	871.05	49.37529244	129.2040262	1459.045991	888.5613666
950	871.84	49.41806037	129.3012255	1458.977872	888.5105299
951	872.62	49.46081557	129.3983663	1458.910083	888.4599177
952	873.41	49.50355807	129.4954487	1458.842624	888.409529
953	874.20	49.54628787	129.5924726	1458.775492	888.3593627
954	874.98	49.58900497	129.6894381	1458.708687	888.3094177
955	875.77	49.63170939	129.7863453	1458.642206	888.259693
956	876.55	49.67440112	129.8831941	1458.576048	888.2101875
957	877.34	49.71708017	129.9799846	1458.510212	888.1609001
958	878.12	49.75974655	130.0767168	1458.444697	888.1118299
959	878.91	49.80240027	130.1733907	1458.3795	888.0629757
960	879.69	49.84504133	130.2700064	1458.314621	888.0143367
961	880.47	49.88766973	130.3665639	1458.250058	887.9659116
962	881.26	49.93028549	130.4630631	1458.18581	887.9176997
963	882.04	49.9728886	130.5595042	1458.121875	887.8696997
964	882.83	50.01547909	130.6558872	1458.058251	887.8219108
965	883.61	50.05805694	130.7522121	1457.994939	887.7743319
966	884.39	50.10062217	130.8484788	1457.931935	887.726962
967	885.18	50.14317478	130.9446875	1457.86924	887.6798002
968	885.96	50.18571478	131.0408382	1457.80685	887.6328455
969	886.74	50.22824218	131.1369309	1457.744766	887.5860968
970	887.53	50.27075698	131.2329655	1457.682986	887.5395533
971	888.31	50.31325918	131.3289422	1457.621507	887.493214
972	889.09	50.3557488	131.424861	1457.56033	887.4470778
973	889.87	50.39822583	131.5207219	1457.499453	887.4011439
974	890.66	50.44069029	131.6165249	1457.438874	887.3554113
975	891.44	50.48314218	131.7122701	1457.378592	887.3098791
976	892.22	50.52558151	131.8079574	1457.318606	887.2645463
977	893.00	50.56800827	131.9035869	1457.258914	887.219412
978	893.79	50.61042249	131.9991586	1457.199516	887.1744753
979	894.57	50.65282415	132.0946726	1457.14041	887.1297352

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
980	895.35	50.69521328	132.1901289	1457.081594	887.0851909
981	896.13	50.73758987	132.2855275	1457.023068	887.0408414
982	896.91	50.77995393	132.3808684	1456.96483	886.9966858
983	897.69	50.82230546	132.4761516	1456.906878	886.9527232
984	898.47	50.86464448	132.5713772	1456.849213	886.9089528
985	899.25	50.90697098	132.6665453	1456.791832	886.8653735
986	900.04	50.94928498	132.7616558	1456.734734	886.8219847
987	900.82	50.99158647	132.8567087	1456.677918	886.7787853
988	901.60	51.03387547	132.9517041	1456.621382	886.7357745
989	902.38	51.07615198	133.046642	1456.565126	886.6929514
990	903.16	51.11841601	133.1415225	1456.509149	886.6503152
991	903.94	51.16066755	133.2363455	1456.453449	886.6078649
992	904.72	51.20290662	133.3311111	1456.398024	886.5655999
993	905.50	51.24513322	133.4258193	1456.342875	886.5235191
994	906.28	51.28734736	133.5204702	1456.287999	886.4816217
995	907.06	51.32954904	133.6150637	1456.233395	886.4399069
996	907.84	51.37173827	133.7095999	1456.179062	886.3983739
997	908.62	51.41391506	133.8040789	1456.125	886.3570219
998	909.39	51.4560794	133.8985006	1456.071206	886.3158499
999	910.17	51.49823131	133.992865	1456.017681	886.2748572
1000	910.95	51.54037078	134.0871722	1455.964421	886.234043
1001	911.73	51.58249783	134.1814223	1455.911428	886.1934064
1002	912.51	51.62461247	134.2756152	1455.858698	886.1529466
1003	913.29	51.66671468	134.369751	1455.806232	886.1126629
1004	914.07	51.70880449	134.4638297	1455.754028	886.0725544
1005	914.84	51.7508819	134.5578513	1455.702085	886.0326203
1006	915.62	51.79294691	134.6518158	1455.650402	885.9928598
1007	916.40	51.83499952	134.7457234	1455.598978	885.9532722
1008	917.18	51.87703975	134.8395739	1455.547811	885.9138567
1009	917.96	51.91906759	134.9333675	1455.496901	885.8746124
1010	918.73	51.96108306	135.0271041	1455.446246	885.8355386
1011	919.51	52.00308616	135.1207838	1455.395846	885.7966346
1012	920.29	52.04507688	135.2144066	1455.3457	885.7578995
1013	921.06	52.08705525	135.3079725	1455.295805	885.7193327
1014	921.84	52.12902126	135.4014816	1455.246162	885.6809332
1015	922.62	52.17097492	135.4949339	1455.196769	885.6427005
1016	923.40	52.21291624	135.5883294	1455.147625	885.6046337
1017	924.17	52.25484521	135.6816681	1455.098729	885.5667321
1018	924.95	52.29676185	135.7749501	1455.05008	885.5289949
1019	925.72	52.33866615	135.8681753	1455.001677	885.4914215
1020	926.50	52.38055814	135.9613439	1454.953519	885.454011

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1021	927.28	52.4224378	136.0544558	1454.905605	885.4167627
1022	928.05	52.46430514	136.1475111	1454.857934	885.379676
1023	928.83	52.50616018	136.2405098	1454.810505	885.34275
1024	929.60	52.54800291	136.3334519	1454.763317	885.3059841
1025	930.38	52.58983334	136.4263374	1454.716369	885.2693776
1026	931.16	52.63165147	136.5191664	1454.669659	885.2329297
1027	931.93	52.67345731	136.6119389	1454.623188	885.1966397
1028	932.71	52.71525087	136.7046549	1454.576953	885.1605069
1029	933.48	52.75703215	136.7973145	1454.530955	885.1245307
1030	934.26	52.79880115	136.8899176	1454.485191	885.0887103
1031	935.03	52.84055788	136.9824643	1454.439661	885.053045
1032	935.80	52.88230235	137.0749547	1454.394365	885.0175342
1033	936.58	52.92403456	137.1673887	1454.3493	884.9821771
1034	937.35	52.96575451	137.2597664	1454.304467	884.9469731
1035	938.13	53.0074622	137.3520877	1454.259863	884.9119215
1036	938.90	53.04915766	137.4443529	1454.215489	884.8770216
1037	939.68	53.09084087	137.5365617	1454.171343	884.8422727
1038	940.45	53.13251184	137.6287144	1454.127425	884.8076742
1039	941.22	53.17417059	137.7208108	1454.083732	884.7732255
1040	942.00	53.2158171	137.8128511	1454.040266	884.7389257
1041	942.77	53.2574514	137.9048352	1453.997023	884.7047744
1042	943.54	53.29907348	137.9967632	1453.954005	884.6707708
1043	944.32	53.34068334	138.0886352	1453.911209	884.6369143
1044	945.09	53.382281	138.180451	1453.868634	884.6032042
1045	945.86	53.42386645	138.2722109	1453.826281	884.5696399
1046	946.64	53.46543971	138.3639147	1453.784148	884.5362207
1047	947.41	53.50700077	138.4555625	1453.742233	884.5029461
1048	948.18	53.54854964	138.5471544	1453.700537	884.4698153
1049	948.95	53.59008633	138.6386903	1453.659058	884.4368278
1050	949.73	53.63161084	138.7301703	1453.617796	884.4039828
1051	950.50	53.67312318	138.8215945	1453.576749	884.3712799
1052	951.27	53.71462334	138.9129628	1453.535917	884.3387183
1053	952.04	53.75611134	139.0042752	1453.495298	884.3062975
1054	952.81	53.79758718	139.0955319	1453.454893	884.2740168
1055	953.59	53.83905086	139.1867328	1453.414699	884.2418756
1056	954.36	53.88050239	139.2778779	1453.374717	884.2098734
1057	955.13	53.92194177	139.3689673	1453.334945	884.1780094
1058	955.90	53.96336901	139.460001	1453.295382	884.1462831
1059	956.67	54.00478411	139.550979	1453.256028	884.1146939
1060	957.44	54.04618708	139.6419014	1453.216882	884.0832412
1061	958.21	54.08757792	139.7327681	1453.177943	884.0519245

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1062	958.99	54.12895663	139.8235793	1453.13921	884.020743
1063	959.76	54.17032323	139.9143349	1453.100682	883.9896963
1064	960.53	54.2116777	140.0050349	1453.062358	883.9587837
1065	961.30	54.25302007	140.0956795	1453.024239	883.9280046
1066	962.07	54.29435033	140.1862685	1452.986322	883.8973585
1067	962.84	54.33566849	140.2768021	1452.948607	883.8668449
1068	963.61	54.37697455	140.3672802	1452.911093	883.836463
1069	964.38	54.41826852	140.4577029	1452.87378	883.8062125
1070	965.15	54.4595504	140.5480703	1452.836666	883.7760926
1071	965.92	54.50082019	140.6383823	1452.799751	883.7461028
1072	966.69	54.5420779	140.7286389	1452.763034	883.7162426
1073	967.46	54.58332354	140.8188402	1452.726514	883.6865114
1074	968.23	54.62455711	140.9089863	1452.690191	883.6569086
1075	969.00	54.6657786	140.9990771	1452.654063	883.6274337
1076	969.76	54.70698804	141.0891127	1452.618131	883.5980862
1077	970.53	54.74818542	141.1790931	1452.582392	883.5688654
1078	971.30	54.78937074	141.2690183	1452.546846	883.5397709
1079	972.07	54.83054401	141.3588883	1452.511494	883.5108021
1080	972.84	54.87170524	141.4487032	1452.476332	883.4819585
1081	973.61	54.91285443	141.538463	1452.441362	883.4532395
1082	974.38	54.95399158	141.6281678	1452.406582	883.4246445
1083	975.15	54.99511669	141.7178175	1452.371992	883.3961732
1084	975.91	55.03622978	141.8074122	1452.33759	883.3678248
1085	976.68	55.07733085	141.8969519	1452.303377	883.339599
1086	977.45	55.11841989	141.9864366	1452.269351	883.3114951
1087	978.22	55.15949692	142.0758664	1452.235511	883.2835127
1088	978.99	55.20056193	142.1652413	1452.201857	883.2556512
1089	979.75	55.24161494	142.2545613	1452.168388	883.2279101
1090	980.52	55.28265595	142.3438265	1452.135103	883.2002889
1091	981.29	55.32368495	142.4330368	1452.102002	883.1727872
1092	982.06	55.36470196	142.5221923	1452.069084	883.1454043
1093	982.82	55.40570698	142.611293	1452.036348	883.1181397
1094	983.59	55.44670002	142.7003389	1452.003794	883.0909931
1095	984.36	55.48768107	142.7893302	1451.97142	883.0639638
1096	985.12	55.52865014	142.8782667	1451.939226	883.0370514
1097	985.89	55.56960724	142.9671486	1451.907212	883.0102553
1098	986.66	55.61055236	143.0559758	1451.875376	882.9835751
1099	987.42	55.65148552	143.1447484	1451.843718	882.9570103
1100	988.19	55.69240672	143.2334664	1451.812237	882.9305604
1101	988.96	55.73331596	143.3221298	1451.780933	882.9042249
1102	989.72	55.77421325	143.4107387	1451.749805	882.8780034

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1103	990.49	55.81509858	143.4992931	1451.718852	882.8518952
1104	991.25	55.85597197	143.5877929	1451.688073	882.8259
1105	992.02	55.89683342	143.6762384	1451.657468	882.8000173
1106	992.79	55.93768293	143.7646293	1451.627036	882.7742467
1107	993.55	55.97852051	143.8529659	1451.596777	882.7485875
1108	994.32	56.01934615	143.9412481	1451.56669	882.7230394
1109	995.08	56.06015987	144.029476	1451.536773	882.6976019
1110	995.85	56.10096167	144.1176495	1451.507027	882.6722745
1111	996.61	56.14175155	144.2057687	1451.477451	882.6470567
1112	997.38	56.18252951	144.2938336	1451.448044	882.6219482
1113	998.14	56.22329556	144.3818443	1451.418805	882.5969484
1114	998.91	56.26404971	144.4698008	1451.389735	882.5720568
1115	999.67	56.30479196	144.557703	1451.360831	882.5472731
1116	1000.44	56.3455223	144.6455511	1451.332094	882.5225968
1117	1001.20	56.38624075	144.7333451	1451.303523	882.4980274
1118	1001.97	56.42694731	144.8210849	1451.275117	882.4735644
1119	1002.73	56.46764199	144.9087707	1451.246875	882.4492075
1120	1003.49	56.50832478	144.9964024	1451.218798	882.4249561
1121	1004.26	56.54899569	145.0839801	1451.190884	882.4008099
1122	1005.02	56.58965472	145.1715037	1451.163133	882.3767683
1123	1005.79	56.63030189	145.2589734	1451.135544	882.352831
1124	1006.55	56.67093718	145.3463891	1451.108116	882.3289976
1125	1007.31	56.71156062	145.4337509	1451.080849	882.3052675
1126	1008.08	56.75217219	145.5210588	1451.053742	882.2816403
1127	1008.84	56.7927719	145.6083128	1451.026795	882.2581157
1128	1009.60	56.83335976	145.695513	1451.000007	882.2346932
1129	1010.37	56.87393578	145.7826594	1450.973377	882.2113723
1130	1011.13	56.91449995	145.8697519	1450.946906	882.1881526
1131	1011.89	56.95505227	145.9567907	1450.920591	882.1650338
1132	1012.65	56.99559276	146.0437758	1450.894433	882.1420154
1133	1013.42	57.03612142	146.1307072	1450.868431	882.1190969
1134	1014.18	57.07663824	146.2175848	1450.842584	882.096278
1135	1014.94	57.11714324	146.3044088	1450.816892	882.0735583
1136	1015.70	57.15763642	146.3911792	1450.791354	882.0509373
1137	1016.47	57.19811777	146.477896	1450.76597	882.0284146
1138	1017.23	57.23858732	146.5645592	1450.740739	882.0059898
1139	1017.99	57.27904505	146.6511689	1450.71566	881.9836625
1140	1018.75	57.31949097	146.737725	1450.690734	881.9614323
1141	1019.52	57.35992509	146.8242277	1450.665958	881.9392989
1142	1020.28	57.4003474	146.9106769	1450.641334	881.9172617
1143	1021.04	57.44075792	146.9970726	1450.616859	881.8953204

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1144	1021.80	57.48115665	147.0834149	1450.592534	881.8734746
1145	1022.56	57.52154359	147.1697039	1450.568358	881.8517239
1146	1023.32	57.56191874	147.2559395	1450.544331	881.8300679
1147	1024.08	57.60228211	147.3421218	1450.520451	881.8085062
1148	1024.84	57.64263369	147.4282507	1450.496719	881.7870385
1149	1025.61	57.68297351	147.5143264	1450.473134	881.7656643
1150	1026.37	57.72330155	147.6003488	1450.449694	881.7443832
1151	1027.13	57.76361783	147.6863181	1450.426401	881.7231949
1152	1027.89	57.80392234	147.7722341	1450.403252	881.702099
1153	1028.65	57.84421508	147.8580969	1450.380248	881.6810951
1154	1029.41	57.88449608	147.9439067	1450.357389	881.6601828
1155	1030.17	57.92476531	148.0296633	1450.334672	881.6393618
1156	1030.93	57.9650228	148.1153668	1450.312099	881.6186316
1157	1031.69	58.00526854	148.2010173	1450.289668	881.5979919
1158	1032.45	58.04550254	148.2866147	1450.267379	881.5774423
1159	1033.21	58.0857248	148.3721592	1450.245231	881.5569825
1160	1033.97	58.12593532	148.4576506	1450.223224	881.5366121
1161	1034.73	58.16613411	148.5430892	1450.201358	881.5163306
1162	1035.49	58.20632117	148.6284748	1450.179631	881.4961378
1163	1036.25	58.2464965	148.7138075	1450.158043	881.4760333
1164	1037.01	58.28666011	148.7990874	1450.136594	881.4560167
1165	1037.77	58.32681201	148.8843144	1450.115283	881.4360877
1166	1038.53	58.36695219	148.9694886	1450.09411	881.4162458
1167	1039.28	58.40708065	149.05461	1450.073075	881.3964908
1168	1040.04	58.44719741	149.1396787	1450.052175	881.3768223
1169	1040.80	58.48730246	149.2246947	1450.031412	881.3572399
1170	1041.56	58.52739581	149.3096579	1450.010785	881.3377432
1171	1042.32	58.56747747	149.3945685	1449.990293	881.318332
1172	1043.08	58.60754743	149.4794265	1449.969935	881.2990059
1173	1043.84	58.6476057	149.5642318	1449.949712	881.2797645
1174	1044.60	58.68765228	149.6489846	1449.929622	881.2606074
1175	1045.35	58.72768717	149.7336848	1449.909665	881.2415344
1176	1046.11	58.76771039	149.8183325	1449.889841	881.2225451
1177	1046.87	58.80772192	149.9029276	1449.870149	881.2036391
1178	1047.63	58.84772179	149.9874703	1449.850589	881.1848162
1179	1048.39	58.88770998	150.0719606	1449.83116	881.1660759
1180	1049.14	58.92768651	150.1563984	1449.811861	881.1474179
1181	1049.90	58.96765137	150.2407839	1449.792693	881.1288419
1182	1050.66	59.00760457	150.325117	1449.773655	881.1103476
1183	1051.42	59.04754611	150.4093977	1449.754746	881.0919346
1184	1052.17	59.087476	150.4936262	1449.735965	881.0736026

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1185	1052.93	59.12739424	150.5778023	1449.717313	881.0553512
1186	1053.69	59.16730083	150.6619263	1449.698789	881.0371802
1187	1054.44	59.20719578	150.745998	1449.680392	881.0190892
1188	1055.20	59.24707909	150.8300175	1449.662121	881.0010779
1189	1055.96	59.28695076	150.9139848	1449.643978	880.9831459
1190	1056.71	59.3268108	150.9979	1449.62596	880.965293
1191	1057.47	59.3666592	151.0817631	1449.608068	880.9475187
1192	1058.23	59.40649598	151.1655741	1449.5903	880.9298229
1193	1058.98	59.44632114	151.2493331	1449.572657	880.9122051
1194	1059.74	59.48613467	151.3330401	1449.555139	880.8946651
1195	1060.50	59.52593659	151.416695	1449.537744	880.8772026
1196	1061.25	59.56572689	151.500298	1449.520472	880.8598171
1197	1062.01	59.60550558	151.5838491	1449.503323	880.8425085
1198	1062.76	59.64527266	151.6673482	1449.486296	880.8252764
1199	1063.52	59.68502814	151.7507954	1449.469391	880.8081204
1200	1064.28	59.72477202	151.8341908	1449.452607	880.7910404
1201	1065.03	59.7645043	151.9175344	1449.435945	880.7740359
1202	1065.79	59.80422499	152.0008262	1449.419402	880.7571067
1203	1066.54	59.84393408	152.0840662	1449.40298	880.7402524
1204	1067.30	59.88363159	152.1672545	1449.386678	880.7234728
1205	1068.05	59.92331751	152.2503911	1449.370495	880.7067676
1206	1068.81	59.96299185	152.3334759	1449.35443	880.6901364
1207	1069.56	60.00265461	152.4165092	1449.338484	880.673579
1208	1070.32	60.0423058	152.4994908	1449.322655	880.657095
1209	1071.07	60.08194541	152.5824208	1449.306945	880.6406842
1210	1071.83	60.12157346	152.6652992	1449.291351	880.6243462
1211	1072.58	60.16118994	152.7481261	1449.275873	880.6080809
1212	1073.34	60.20079486	152.8309015	1449.260512	880.5918878
1213	1074.09	60.24038821	152.9136254	1449.245267	880.5757666
1214	1074.85	60.27997002	152.9962979	1449.230137	880.5597172
1215	1075.60	60.31954027	153.0789189	1449.215122	880.5437392
1216	1076.35	60.35909897	153.1614886	1449.200221	880.5278323
1217	1077.11	60.39864612	153.2440068	1449.185435	880.5119962
1218	1077.86	60.43818173	153.3264738	1449.170762	880.4962307
1219	1078.62	60.4777058	153.4088894	1449.156202	880.4805354
1220	1079.37	60.51721833	153.4912538	1449.141755	880.4649102
1221	1080.12	60.55671933	153.5735669	1449.127421	880.4493546
1222	1080.88	60.5962088	153.6558287	1449.113199	880.4338684
1223	1081.63	60.63568674	153.7380394	1449.099088	880.4184513
1224	1082.38	60.67515316	153.8201989	1449.085088	880.4031031
1225	1083.14	60.71460806	153.9023073	1449.0712	880.3878235

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1226	1083.89	60.75405143	153.9843646	1449.057421	880.3726122
1227	1084.64	60.7934833	154.0663708	1449.043753	880.3574689
1228	1085.40	60.83290365	154.148326	1449.030195	880.3423934
1229	1086.15	60.87231249	154.2302301	1449.016745	880.3273853
1230	1086.90	60.91170983	154.3120832	1449.003404	880.3124445
1231	1087.65	60.95109566	154.3938854	1448.990172	880.2975706
1232	1088.41	60.99047	154.4756367	1448.977048	880.2827633
1233	1089.16	61.02983283	154.557337	1448.964032	880.2680225
1234	1089.91	61.06918418	154.6389865	1448.951122	880.2533478
1235	1090.66	61.10852403	154.7205851	1448.93832	880.238739
1236	1091.42	61.1478524	154.802133	1448.925624	880.2241957
1237	1092.17	61.18716929	154.88363	1448.913034	880.2097179
1238	1092.92	61.22647469	154.9650763	1448.90055	880.195305
1239	1093.67	61.26576862	155.0464718	1448.888172	880.1809571
1240	1094.42	61.30505107	155.1278167	1448.875898	880.1666736
1241	1095.17	61.34432205	155.2091109	1448.863729	880.1524545
1242	1095.93	61.38358156	155.2903544	1448.851664	880.1382994
1243	1096.68	61.42282961	155.3715474	1448.839703	880.1242081
1244	1097.43	61.46206619	155.4526898	1448.827845	880.1101803
1245	1098.18	61.50129131	155.5337816	1448.816091	880.0962158
1246	1098.93	61.54050498	155.6148229	1448.804439	880.0823144
1247	1099.68	61.5797072	155.6958137	1448.79289	880.0684756
1248	1100.43	61.61889796	155.776754	1448.781442	880.0546994
1249	1101.18	61.65807728	155.8576439	1448.770096	880.0409855
1250	1101.94	61.69724516	155.9384834	1448.758852	880.0273336
1251	1102.69	61.73640159	156.0192726	1448.747708	880.0137435
1252	1103.44	61.77554658	156.1000114	1448.736665	880.0002148
1253	1104.19	61.81468015	156.1806999	1448.725722	879.9867475
1254	1104.94	61.85380227	156.2613381	1448.714879	879.9733412
1255	1105.69	61.89291297	156.341926	1448.704136	879.9599956
1256	1106.44	61.93201225	156.4224637	1448.693491	879.9467106
1257	1107.19	61.9711001	156.5029513	1448.682946	879.9334859
1258	1107.94	62.01017653	156.5833886	1448.672498	879.9203213
1259	1108.69	62.04924155	156.6637759	1448.662149	879.9072165
1260	1109.44	62.08829515	156.744113	1448.651897	879.8941713
1261	1110.19	62.12733734	156.8244001	1448.641743	879.8811854
1262	1110.94	62.16636813	156.9046371	1448.631686	879.8682586
1263	1111.69	62.20538751	156.9848241	1448.621726	879.8553906
1264	1112.44	62.24439548	157.0649611	1448.611861	879.8425814
1265	1113.19	62.28339206	157.1450481	1448.602093	879.8298305
1266	1113.94	62.32237725	157.2250853	1448.592421	879.8171377

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1267	1114.69	62.36135104	157.3050725	1448.582844	879.8045029
1268	1115.43	62.40031344	157.3850099	1448.573361	879.7919259
1269	1116.18	62.43926445	157.4648974	1448.563974	879.7794062
1270	1116.93	62.47820409	157.5447352	1448.55468	879.7669439
1271	1117.68	62.51713234	157.6245231	1448.545481	879.7545385
1272	1118.43	62.55604921	157.7042614	1448.536375	879.7421899
1273	1119.18	62.59495471	157.7839499	1448.527363	879.7298979
1274	1119.93	62.63384884	157.8635887	1448.518443	879.7176622
1275	1120.68	62.6727316	157.9431779	1448.509616	879.7054826
1276	1121.43	62.71160299	158.0227174	1448.500881	879.6933589
1277	1122.17	62.75046302	158.1022074	1448.492239	879.6812909
1278	1122.92	62.78931169	158.1816478	1448.483688	879.6692783
1279	1123.67	62.82814901	158.2610386	1448.475228	879.6573209
1280	1124.42	62.86697497	158.34038	1448.46686	879.6454185
1281	1125.17	62.90578958	158.4196719	1448.458582	879.6335709
1282	1125.91	62.94459284	158.4989143	1448.450394	879.6217779
1283	1126.66	62.98338476	158.5781074	1448.442296	879.6100392
1284	1127.41	63.02216534	158.657251	1448.434289	879.5983546
1285	1128.16	63.06093458	158.7363453	1448.42637	879.5867239
1286	1128.90	63.09969248	158.8153903	1448.418541	879.575147
1287	1129.65	63.13843905	158.894386	1448.4108	879.5636235
1288	1130.40	63.17717429	158.9733325	1448.403148	879.5521533
1289	1131.15	63.2158982	159.0522297	1448.395584	879.5407361
1290	1131.89	63.25461079	159.1310777	1448.388108	879.5293718
1291	1132.64	63.29331206	159.2098766	1448.380719	879.5180601
1292	1133.39	63.33200201	159.2886263	1448.373418	879.5068008
1293	1134.13	63.37068064	159.367327	1448.366204	879.4955938
1294	1134.88	63.40934797	159.4459785	1448.359076	879.4844387
1295	1135.63	63.44800398	159.524581	1448.352034	879.4733355
1296	1136.37	63.48664869	159.6031345	1448.345079	879.4622838
1297	1137.12	63.52528209	159.681639	1448.338209	879.4512836
1298	1137.87	63.5639042	159.7600946	1448.331424	879.4403345
1299	1138.61	63.60251501	159.8385012	1448.324725	879.4294364
1300	1139.36	63.64111452	159.916859	1448.318111	879.4185891
1301	1140.11	63.67970274	159.9951679	1448.311581	879.4077923
1302	1140.85	63.71827968	160.073428	1448.305135	879.3970459
1303	1141.60	63.75684533	160.1516392	1448.298773	879.3863497
1304	1142.34	63.79539969	160.2298018	1448.292495	879.3757035
1305	1143.09	63.83394278	160.3079155	1448.2863	879.365107
1306	1143.84	63.87247459	160.3859806	1448.280188	879.3545601
1307	1144.58	63.91099513	160.463997	1448.274158	879.3440626

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1308	1145.33	63.94950439	160.5419648	1448.268212	879.3336142
1309	1146.07	63.98800239	160.6198839	1448.262347	879.3232149
1310	1146.82	64.02648913	160.6977545	1448.256564	879.3128643
1311	1147.56	64.0649646	160.7755766	1448.250863	879.3025623
1312	1148.31	64.10342881	160.8533501	1448.245243	879.2923087
1313	1149.05	64.14188177	160.9310751	1448.239704	879.2821034
1314	1149.80	64.18032348	161.0087517	1448.234246	879.271946
1315	1150.54	64.21875393	161.0863799	1448.228869	879.2618365
1316	1151.29	64.25717314	161.1639596	1448.223571	879.2517746
1317	1152.03	64.2955811	161.241491	1448.218354	879.2417601
1318	1152.78	64.33397783	161.3189741	1448.213216	879.2317929
1319	1153.52	64.37236331	161.3964089	1448.208157	879.2218728
1320	1154.27	64.41073756	161.4737954	1448.203177	879.2119996
1321	1155.01	64.44910058	161.5511337	1448.198276	879.202173
1322	1155.76	64.48745237	161.6284238	1448.193454	879.1923929
1323	1156.50	64.52579293	161.7056657	1448.18871	879.1826592
1324	1157.25	64.56412227	161.7828595	1448.184044	879.1729716
1325	1157.99	64.60244039	161.8600052	1448.179455	879.1633299
1326	1158.73	64.64074729	161.9371028	1448.174944	879.1537341
1327	1159.48	64.67904297	162.0141523	1448.17051	879.1441838
1328	1160.22	64.71732745	162.0911539	1448.166153	879.1346789
1329	1160.96	64.75560072	162.1681074	1448.161873	879.1252192
1330	1161.71	64.79386278	162.245013	1448.157669	879.1158046
1331	1162.45	64.83211364	162.3218707	1448.15354	879.1064348
1332	1163.20	64.87035329	162.3986805	1448.149488	879.0971097
1333	1163.94	64.90858176	162.4754425	1448.145511	879.0878291
1334	1164.68	64.94679902	162.5521566	1448.14161	879.0785929
1335	1165.43	64.9850051	162.6288229	1448.137784	879.0694008
1336	1166.17	65.02319999	162.7054415	1448.134032	879.0602527
1337	1166.91	65.0613837	162.7820124	1448.130355	879.0511484
1338	1167.65	65.09955622	162.8585355	1448.126752	879.0420877
1339	1168.40	65.13771756	162.935011	1448.123223	879.0330704
1340	1169.14	65.17586773	163.0114389	1448.119768	879.0240964
1341	1169.88	65.21400672	163.0878191	1448.116386	879.0151656
1342	1170.63	65.25213455	163.1641518	1448.113077	879.0062776
1343	1171.37	65.29025121	163.240437	1448.109842	878.9974325
1344	1172.11	65.3283567	163.3166747	1448.106679	878.9886299
1345	1172.85	65.36645103	163.3928648	1448.103588	878.9798697
1346	1173.60	65.40453421	163.4690076	1448.10057	878.9711518
1347	1174.34	65.44260622	163.5451029	1448.097624	878.9624759
1348	1175.08	65.48066709	163.6211509	1448.094749	878.953842

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1349	1175.82	65.51871681	163.6971515	1448.091946	878.9452498
1350	1176.56	65.55675538	163.7731048	1448.089214	878.9366992
1351	1177.31	65.59478281	163.8490109	1448.086553	878.9281901
1352	1178.05	65.63279909	163.9248696	1448.083962	878.9197221
1353	1178.79	65.67080424	164.0006812	1448.081442	878.9112953
1354	1179.53	65.70879826	164.0764456	1448.078993	878.9029093
1355	1180.27	65.74678114	164.1521629	1448.076613	878.8945641
1356	1181.01	65.7847529	164.227833	1448.074303	878.8862595
1357	1181.76	65.82271353	164.303456	1448.072062	878.8779954
1358	1182.50	65.86066304	164.379032	1448.069891	878.8697715
1359	1183.24	65.89860142	164.454561	1448.067789	878.8615877
1360	1183.98	65.93652869	164.530043	1448.065755	878.8534438
1361	1184.72	65.97444485	164.605478	1448.06379	878.8453397
1362	1185.46	66.0123499	164.6808661	1448.061894	878.8372753
1363	1186.20	66.05024384	164.7562073	1448.060065	878.8292503
1364	1186.94	66.08812667	164.8315017	1448.058304	878.8212646
1365	1187.68	66.12599841	164.9067492	1448.056611	878.8133181
1366	1188.42	66.16385904	164.9819499	1448.054985	878.8054106
1367	1189.17	66.20170858	165.0571039	1448.053426	878.7975419
1368	1189.91	66.23954703	165.1322112	1448.051934	878.7897118
1369	1190.65	66.27737439	165.2072717	1448.050509	878.7819203
1370	1191.39	66.31519066	165.2822856	1448.04915	878.7741672
1371	1192.13	66.35299585	165.3572529	1448.047858	878.7664523
1372	1192.87	66.39078995	165.4321736	1448.046631	878.7587755
1373	1193.61	66.42857298	165.5070477	1448.04547	878.7511365
1374	1194.35	66.46634494	165.5818753	1448.044375	878.7435354
1375	1195.09	66.50410582	165.6566564	1448.043344	878.7359718
1376	1195.83	66.54185563	165.731391	1448.042379	878.7284457
1377	1196.57	66.57959438	165.8060791	1448.041479	878.7209569
1378	1197.31	66.61732207	165.8807209	1448.040643	878.7135052
1379	1198.05	66.6550387	165.9553163	1448.039872	878.7060906
1380	1198.78	66.69274427	166.0298654	1448.039165	878.6987128
1381	1199.52	66.73043879	166.1043682	1448.038522	878.6913717
1382	1200.26	66.76812225	166.1788247	1448.037942	878.6840671
1383	1201.00	66.80579467	166.253235	1448.037426	878.676799
1384	1201.74	66.84345605	166.3275991	1448.036973	878.6695672
1385	1202.48	66.88110639	166.401917	1448.036583	878.6623714
1386	1203.22	66.91874568	166.4761888	1448.036257	878.6552117
1387	1203.96	66.95637394	166.5504144	1448.035992	878.6480877
1388	1204.70	66.99399117	166.6245941	1448.03579	878.6409995
1389	1205.44	67.03159737	166.6987276	1448.035651	878.6339468

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1390	1206.18	67.06919255	166.7728152	1448.035573	878.6269294
1391	1206.91	67.1067767	166.8468568	1448.035557	878.6199474
1392	1207.65	67.14434983	166.9208524	1448.035603	878.6130004
1393	1208.39	67.18191195	166.9948022	1448.03571	878.6060884
1394	1209.13	67.21946305	167.0687061	1448.035878	878.5992113
1395	1209.87	67.25700314	167.1425641	1448.036106	878.5923688
1396	1210.61	67.29453222	167.2163764	1448.036396	878.5855609
1397	1211.34	67.3320503	167.2901428	1448.036746	878.5787874
1398	1212.08	67.36955737	167.3638636	1448.037157	878.5720481
1399	1212.82	67.40705345	167.4375386	1448.037627	878.565343
1400	1213.56	67.44453854	167.511168	1448.038157	878.5586718
1401	1214.30	67.48201263	167.5847517	1448.038747	878.5520345
1402	1215.03	67.51947573	167.6582898	1448.039397	878.545431
1403	1215.77	67.55692784	167.7317824	1448.040105	878.538861
1404	1216.51	67.59436898	167.8052294	1448.040873	878.5323244
1405	1217.25	67.63179913	167.8786309	1448.041699	878.5258212
1406	1217.98	67.6692183	167.951987	1448.042585	878.5193511
1407	1218.72	67.70662651	168.0252976	1448.043528	878.5129141
1408	1219.46	67.74402374	168.0985628	1448.04453	878.5065099
1409	1220.20	67.78141	168.1717826	1448.04559	878.5001385
1410	1220.93	67.8187853	168.2449571	1448.046707	878.4937998
1411	1221.67	67.85614964	168.3180863	1448.047882	878.4874936
1412	1222.41	67.89350302	168.3911703	1448.049115	878.4812197
1413	1223.14	67.93084545	168.464209	1448.050405	878.4749781
1414	1223.88	67.96817692	168.5372025	1448.051752	878.4687685
1415	1224.62	68.00549745	168.6101508	1448.053156	878.462591
1416	1225.35	68.04280703	168.683054	1448.054616	878.4564453
1417	1226.09	68.08010566	168.7559121	1448.056133	878.4503313
1418	1226.83	68.11739336	168.8287252	1448.057706	878.4442488
1419	1227.56	68.15467012	168.9014932	1448.059335	878.4381979
1420	1228.30	68.19193595	168.9742162	1448.06102	878.4321783
1421	1229.04	68.22919085	169.0468942	1448.06276	878.4261898
1422	1229.77	68.26643482	169.1195273	1448.064556	878.4202325
1423	1230.51	68.30366787	169.1921156	1448.066408	878.414306
1424	1231.24	68.34089	169.2646589	1448.068314	878.4084104
1425	1231.98	68.37810121	169.3371575	1448.070275	878.4025455
1426	1232.71	68.4153015	169.4096112	1448.072291	878.3967112
1427	1233.45	68.45249089	169.4820202	1448.074362	878.3909073
1428	1234.19	68.48966937	169.5543845	1448.076487	878.3851337
1429	1234.92	68.52683694	169.626704	1448.078666	878.3793903
1430	1235.66	68.56399361	169.6989789	1448.080899	878.3736769

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1431	1236.39	68.60113939	169.7712092	1448.083185	878.3679935
1432	1237.13	68.63827427	169.8433949	1448.085525	878.36234
1433	1237.86	68.67539825	169.9155361	1448.087919	878.3567161
1434	1238.60	68.71251135	169.9876327	1448.090366	878.3511218
1435	1239.33	68.74961356	170.0596848	1448.092866	878.3455569
1436	1240.07	68.7867049	170.1316925	1448.095418	878.3400214
1437	1240.80	68.82378535	170.2036558	1448.098024	878.3345151
1438	1241.54	68.86085492	170.2755747	1448.100682	878.3290379
1439	1242.27	68.89791363	170.3474492	1448.103392	878.3235896
1440	1243.01	68.93496146	170.4192794	1448.106154	878.3181702
1441	1243.74	68.97199843	170.4910653	1448.108968	878.3127795
1442	1244.48	69.00902453	170.562807	1448.111834	878.3074175
1443	1245.21	69.04603978	170.6345045	1448.114751	878.3020839
1444	1245.95	69.08304417	170.7061578	1448.11772	878.2967787
1445	1246.68	69.12003771	170.777767	1448.12074	878.2915018
1446	1247.42	69.15702039	170.849332	1448.123811	878.286253
1447	1248.15	69.19399223	170.920853	1448.126933	878.2810322
1448	1248.88	69.23095323	170.9923299	1448.130106	878.2758393
1449	1249.62	69.26790338	171.0637629	1448.133329	878.2706743
1450	1250.35	69.3048427	171.1351518	1448.136602	878.2655368
1451	1251.09	69.34177119	171.2064968	1448.139926	878.260427
1452	1251.82	69.37868884	171.277798	1448.143299	878.2553446
1453	1252.55	69.41559567	171.3490552	1448.146722	878.2502895
1454	1253.29	69.45249168	171.4202686	1448.150195	878.2452617
1455	1254.02	69.48937686	171.4914383	1448.153718	878.240261
1456	1254.75	69.52625123	171.5625641	1448.157289	878.2352872
1457	1255.49	69.56311478	171.6336463	1448.16091	878.2303403
1458	1256.22	69.59996753	171.7046847	1448.16458	878.2254202
1459	1256.95	69.63680946	171.7756795	1448.168299	878.2205268
1460	1257.69	69.67364059	171.8466306	1448.172066	878.2156598
1461	1258.42	69.71046092	171.9175382	1448.175881	878.2108194
1462	1259.15	69.74727046	171.9884022	1448.179745	878.2060052
1463	1259.89	69.7840692	172.0592227	1448.183657	878.2012172
1464	1260.62	69.82085715	172.1299997	1448.187617	878.1964554
1465	1261.35	69.85763431	172.2007333	1448.191624	878.1917195
1466	1262.08	69.89440069	172.2714234	1448.19568	878.1870095
1467	1262.82	69.93115628	172.3420702	1448.199782	878.1823253
1468	1263.55	69.9679011	172.4126736	1448.203932	878.1776667
1469	1264.28	70.00463515	172.4832337	1448.208129	878.1730338
1470	1265.02	70.04135843	172.5537505	1448.212373	878.1684262
1471	1265.75	70.07807094	172.6242241	1448.216664	878.163844

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1472	1266.48	70.11477268	172.6946545	1448.221001	878.159287
1473	1267.21	70.15146366	172.7650417	1448.225385	878.1547552
1474	1267.94	70.18814389	172.8353857	1448.229815	878.1502483
1475	1268.68	70.22481337	172.9056855	1448.234291	878.1457664
1476	1269.41	70.26147209	172.9759388	1448.238813	878.1413093
1477	1270.14	70.29812007	173.0461455	1448.243381	878.1368769
1478	1270.87	70.3347573	173.1163057	1448.247995	878.1324692
1479	1271.60	70.37138379	173.1864194	1448.252655	878.1280861
1480	1272.34	70.40799955	173.2564867	1448.25736	878.1237275
1481	1273.07	70.44460458	173.3265077	1448.262111	878.1193934
1482	1273.80	70.48119887	173.3964822	1448.266908	878.1150837
1483	1274.53	70.51778244	173.4664105	1448.271749	878.1107983
1484	1275.26	70.55435528	173.5362924	1448.276636	878.1065371
1485	1275.99	70.59091741	173.6061282	1448.281568	878.1023001
1486	1276.72	70.62746882	173.6759176	1448.286545	878.0980872
1487	1277.46	70.66400952	173.7456609	1448.291566	878.0938983
1488	1278.19	70.70053951	173.8153581	1448.296632	878.0897333
1489	1278.92	70.7370588	173.8850091	1448.301743	878.085592
1490	1279.65	70.77356738	173.954614	1448.306898	878.0814745
1491	1280.38	70.81006526	174.0241729	1448.312097	878.0773807
1492	1281.11	70.84655246	174.0936857	1448.31734	878.0733103
1493	1281.84	70.88302895	174.1631526	1448.322628	878.0692634
1494	1282.57	70.91949477	174.2325735	1448.327959	878.0652399
1495	1283.30	70.95594989	174.3019485	1448.333333	878.0612396
1496	1284.03	70.99239434	174.3712777	1448.338751	878.0572624
1497	1284.76	71.02882811	174.4405609	1448.344213	878.0533084
1498	1285.49	71.06525121	174.5097984	1448.349717	878.0493772
1499	1286.22	71.10166363	174.57899	1448.355265	878.045469
1500	1286.95	71.13806539	174.648136	1448.360856	878.0415836
1501	1287.68	71.17445649	174.7172362	1448.366489	878.0377208
1502	1288.42	71.21083693	174.7862907	1448.372165	878.0338806
1503	1289.15	71.24720671	174.8552996	1448.377883	878.0300629
1504	1289.88	71.28356584	174.9242629	1448.383644	878.0262677
1505	1290.60	71.31991432	174.9931806	1448.389447	878.0224947
1506	1291.33	71.35625216	175.0620527	1448.395292	878.0187439
1507	1292.06	71.39257935	175.1308793	1448.401179	878.0150153
1508	1292.79	71.42889591	175.1996605	1448.407107	878.0113087
1509	1293.52	71.46520183	175.2683962	1448.413077	878.007624
1510	1294.25	71.50149713	175.3370866	1448.419089	878.0039611
1511	1294.98	71.53778179	175.4057315	1448.425142	878.00032
1512	1295.71	71.57405584	175.4743311	1448.431236	877.9967006

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1513	1296.44	71.61031926	175.5428854	1448.437371	877.9931027
1514	1297.17	71.64657207	175.6113945	1448.443547	877.9895263
1515	1297.90	71.68281426	175.6798583	1448.449764	877.9859712
1516	1298.63	71.71904584	175.7482769	1448.456021	877.9824374
1517	1299.36	71.75526683	175.8166504	1448.462319	877.9789249
1518	1300.09	71.7914772	175.8849787	1448.468657	877.9754334
1519	1300.82	71.82767699	175.9532619	1448.475035	877.9719629
1520	1301.54	71.86386617	176.0215	1448.481453	877.9685134
1521	1302.27	71.90004477	176.0896932	1448.487912	877.9650846
1522	1303.00	71.93621278	176.1578413	1448.49441	877.9616766
1523	1303.73	71.97237021	176.2259445	1448.500947	877.9582893
1524	1304.46	72.00851705	176.2940027	1448.507524	877.9549225
1525	1305.19	72.04465333	176.3620161	1448.514141	877.9515762
1526	1305.92	72.08077903	176.4299846	1448.520796	877.9482503
1527	1306.64	72.11689416	176.4979083	1448.527491	877.9449446
1528	1307.37	72.15299873	176.5657872	1448.534224	877.9416592
1529	1308.10	72.18909273	176.6336214	1448.540997	877.9383938
1530	1308.83	72.22517618	176.7014108	1448.547808	877.9351485
1531	1309.56	72.26124908	176.7691556	1448.554657	877.9319231
1532	1310.28	72.29731142	176.8368557	1448.561545	877.9287176
1533	1311.01	72.33336322	176.9045112	1448.568471	877.9255318
1534	1311.74	72.36940448	176.9721221	1448.575435	877.9223657
1535	1312.47	72.4054352	177.0396885	1448.582438	877.9192192
1536	1313.20	72.44145539	177.1072104	1448.589478	877.9160922
1537	1313.92	72.47746505	177.1746878	1448.596556	877.9129847
1538	1314.65	72.51346417	177.2421208	1448.603671	877.9098964
1539	1315.38	72.54945278	177.3095093	1448.610824	877.9068274
1540	1316.11	72.58543086	177.3768535	1448.618014	877.9037775
1541	1316.83	72.62139844	177.4441534	1448.625241	877.9007468
1542	1317.56	72.65735549	177.511409	1448.632506	877.897735
1543	1318.29	72.69330204	177.5786203	1448.639807	877.8947421
1544	1319.01	72.72923809	177.6457874	1448.647145	877.8917681
1545	1319.74	72.76516364	177.7129103	1448.65452	877.8888127
1546	1320.47	72.80107869	177.779989	1448.661931	877.8858761
1547	1321.20	72.83698324	177.8470236	1448.669379	877.882958
1548	1321.92	72.87287731	177.9140142	1448.676863	877.8800584
1549	1322.65	72.9087609	177.9809606	1448.684383	877.8771772
1550	1323.38	72.944634	178.0478631	1448.691939	877.8743143
1551	1324.10	72.98049663	178.1147216	1448.699531	877.8714697
1552	1324.83	73.01634878	178.1815361	1448.707159	877.8686432
1553	1325.55	73.05219046	178.2483067	1448.714822	877.8658348

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1554	1326.28	73.08802168	178.3150335	1448.722521	877.8630444
1555	1327.01	73.12384243	178.3817164	1448.730255	877.8602719
1556	1327.73	73.15965273	178.4483555	1448.738025	877.8575172
1557	1328.46	73.19545258	178.5149508	1448.745829	877.8547803
1558	1329.19	73.23124197	178.5815024	1448.753669	877.852061
1559	1329.91	73.26702092	178.6480103	1448.761544	877.8493594
1560	1330.64	73.30278943	178.7144746	1448.769453	877.8466752
1561	1331.36	73.3385475	178.7808952	1448.777397	877.8440085
1562	1332.09	73.37429513	178.8472722	1448.785375	877.8413592
1563	1332.82	73.41003234	178.9136056	1448.793388	877.8387271
1564	1333.54	73.44575912	178.9798956	1448.801435	877.8361122
1565	1334.27	73.48147547	179.046142	1448.809516	877.8335144
1566	1334.99	73.51718141	179.112345	1448.817632	877.8309337
1567	1335.72	73.55287693	179.1785046	1448.825781	877.8283699
1568	1336.44	73.58856205	179.2446208	1448.833964	877.825823
1569	1337.17	73.62423675	179.3106936	1448.84218	877.8232929
1570	1337.89	73.65990106	179.3767232	1448.85043	877.8207795
1571	1338.62	73.69555497	179.4427094	1448.858714	877.8182828
1572	1339.34	73.73119848	179.5086525	1448.86703	877.8158026
1573	1340.07	73.7668316	179.5745523	1448.87538	877.8133389
1574	1340.79	73.80245434	179.6404089	1448.883763	877.8108917
1575	1341.52	73.83806669	179.7062225	1448.892179	877.8084608
1576	1342.24	73.87366867	179.7719929	1448.900628	877.8060461
1577	1342.97	73.90926027	179.8377203	1448.909109	877.8036477
1578	1343.69	73.9448415	179.9034046	1448.917623	877.8012653
1579	1344.42	73.98041236	179.969046	1448.926169	877.798899
1580	1345.14	74.01597287	180.0346444	1448.934748	877.7965486
1581	1345.87	74.05152301	180.1001999	1448.943359	877.7942142
1582	1346.59	74.08706281	180.1657125	1448.952002	877.7918955
1583	1347.32	74.12259225	180.2311822	1448.960677	877.7895926
1584	1348.04	74.15811135	180.2966092	1448.969384	877.7873054
1585	1348.77	74.1936201	180.3619933	1448.978123	877.7850337
1586	1349.49	74.22911852	180.4273348	1448.986893	877.7827776
1587	1350.21	74.26460661	180.4926335	1448.995695	877.7805369
1588	1350.94	74.30008436	180.5578896	1449.004528	877.7783115
1589	1351.66	74.33555179	180.623103	1449.013393	877.7761015
1590	1352.39	74.3710089	180.6882738	1449.022288	877.7739067
1591	1353.11	74.4064557	180.7534021	1449.031215	877.771727
1592	1353.83	74.44189218	180.8184878	1449.040173	877.7695624
1593	1354.56	74.47731835	180.8835311	1449.049161	877.7674128
1594	1355.28	74.51273422	180.9485319	1449.05818	877.7652782

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1595	1356.00	74.54813979	181.0134903	1449.06723	877.7631584
1596	1356.73	74.58353507	181.0784063	1449.076311	877.7610534
1597	1357.45	74.61892005	181.14328	1449.085421	877.7589631
1598	1358.17	74.65429474	181.2081114	1449.094562	877.7568875
1599	1358.90	74.68965915	181.2729004	1449.103733	877.7548264
1600	1359.62	74.72501329	181.3376473	1449.112935	877.7527798
1601	1360.34	74.76035714	181.402352	1449.122166	877.7507477
1602	1361.07	74.79569073	181.4670144	1449.131427	877.74873
1603	1361.79	74.83101405	181.5316348	1449.140717	877.7467265
1604	1362.51	74.86632711	181.5962131	1449.150038	877.7447373
1605	1363.24	74.90162991	181.6607493	1449.159387	877.7427622
1606	1363.96	74.93692246	181.7252435	1449.168767	877.7408012
1607	1364.68	74.97220476	181.7896957	1449.178175	877.7388542
1608	1365.40	75.00747682	181.8541059	1449.187613	877.7369212
1609	1366.13	75.04273863	181.9184743	1449.197079	877.735002
1610	1366.85	75.07799021	181.9828008	1449.206575	877.7330966
1611	1367.57	75.11323155	182.0470854	1449.2161	877.731205
1612	1368.29	75.14846267	182.1113282	1449.225653	877.7293271
1613	1369.02	75.18368356	182.1755293	1449.235235	877.7274627
1614	1369.74	75.21889424	182.2396886	1449.244845	877.7256119
1615	1370.46	75.2540947	182.3038063	1449.254484	877.7237746
1616	1371.18	75.28928495	182.3678823	1449.264151	877.7219507
1617	1371.91	75.32446499	182.4319166	1449.273846	877.7201401
1618	1372.63	75.35963484	182.4959094	1449.283569	877.7183427
1619	1373.35	75.39479448	182.5598606	1449.293321	877.7165586
1620	1374.07	75.42994393	182.6237703	1449.3031	877.7147876
1621	1374.79	75.4650832	182.6876386	1449.312907	877.7130297
1622	1375.51	75.50021227	182.7514654	1449.322742	877.7112847
1623	1376.24	75.53533117	182.8152508	1449.332604	877.7095527
1624	1376.96	75.5704399	182.8789948	1449.342494	877.7078336
1625	1377.68	75.60553845	182.9426975	1449.352411	877.7061273
1626	1378.40	75.64062684	183.0063589	1449.362355	877.7044337
1627	1379.12	75.67570506	183.069979	1449.372327	877.7027528
1628	1379.84	75.71077313	183.1335579	1449.382325	877.7010844
1629	1380.57	75.74583104	183.1970957	1449.392351	877.6994287
1630	1381.29	75.78087881	183.2605923	1449.402403	877.6977854
1631	1382.01	75.81591642	183.3240477	1449.412482	877.6961545
1632	1382.73	75.8509439	183.3874621	1449.422588	877.6945359
1633	1383.45	75.88596125	183.4508355	1449.43272	877.6929297
1634	1384.17	75.92096846	183.5141678	1449.442879	877.6913356
1635	1384.89	75.95596555	183.5774592	1449.453064	877.6897537

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1636	1385.61	75.99095251	183.6407097	1449.463275	877.6881839
1637	1386.33	76.02592936	183.7039193	1449.473513	877.6866262
1638	1387.05	76.0608961	183.767088	1449.483776	877.6850804
1639	1387.77	76.09585272	183.8302158	1449.494065	877.6835465
1640	1388.50	76.13079924	183.8933029	1449.504381	877.6820244
1641	1389.22	76.16573567	183.9563493	1449.514722	877.6805141
1642	1389.94	76.20066199	184.0193549	1449.525088	877.6790155
1643	1390.66	76.23557823	184.0823199	1449.53548	877.6775286
1644	1391.38	76.27048438	184.1452442	1449.545898	877.6760532
1645	1392.10	76.30538045	184.208128	1449.556341	877.6745894
1646	1392.82	76.34026645	184.2709711	1449.566809	877.6731371
1647	1393.54	76.37514237	184.3337738	1449.577302	877.6716961
1648	1394.26	76.41000822	184.3965359	1449.58782	877.6702665
1649	1394.98	76.44486401	184.4592576	1449.598363	877.6688482
1650	1395.70	76.47970975	184.5219389	1449.608931	877.6674411
1651	1396.42	76.51454543	184.5845798	1449.619524	877.6660451
1652	1397.14	76.54937106	184.6471803	1449.630142	877.6646603
1653	1397.86	76.58418664	184.7097406	1449.640784	877.6632864
1654	1398.58	76.61899219	184.7722605	1449.65145	877.6619236
1655	1399.30	76.6537877	184.8347403	1449.662141	877.6605716
1656	1400.02	76.68857318	184.8971798	1449.672856	877.6592305
1657	1400.74	76.72334863	184.9595792	1449.683595	877.6579003
1658	1401.45	76.75811407	185.0219384	1449.694358	877.6565807
1659	1402.17	76.79286948	185.0842576	1449.705146	877.6552718
1660	1402.89	76.82761489	185.1465367	1449.715957	877.6539735
1661	1403.61	76.86235029	185.2087758	1449.726792	877.6526858
1662	1404.33	76.89707568	185.2709749	1449.737651	877.6514086
1663	1405.05	76.93179108	185.3331341	1449.748533	877.6501418
1664	1405.77	76.96649648	185.3952534	1449.759439	877.6488854
1665	1406.49	77.0011919	185.4573328	1449.770368	877.6476393
1666	1407.21	77.03587733	185.5193724	1449.78132	877.6464035
1667	1407.93	77.07055279	185.5813722	1449.792296	877.6451779
1668	1408.65	77.10521827	185.6433322	1449.803295	877.6439624
1669	1409.36	77.13987378	185.7052525	1449.814317	877.642757
1670	1410.08	77.17451932	185.7671332	1449.825361	877.6415617
1671	1410.80	77.20915491	185.8289742	1449.836429	877.6403763
1672	1411.52	77.24378054	185.8907755	1449.847519	877.6392008
1673	1412.24	77.27839622	185.9525374	1449.858632	877.6380352
1674	1412.96	77.31300196	186.0142596	1449.869768	877.6368793
1675	1413.67	77.34759775	186.0759424	1449.880926	877.6357332
1676	1414.39	77.38218361	186.1375857	1449.892107	877.6345968

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1677	1415.11	77.41675954	186.1991896	1449.90331	877.63347
1678	1415.83	77.45132554	186.2607541	1449.914535	877.6323528
1679	1416.55	77.48588162	186.3222793	1449.925782	877.6312451
1680	1417.27	77.52042778	186.3837651	1449.937051	877.6301469
1681	1417.98	77.55496404	186.4452117	1449.948342	877.629058
1682	1418.70	77.58949038	186.506619	1449.959655	877.6279785
1683	1419.42	77.62400683	186.5679871	1449.97099	877.6269083
1684	1420.14	77.65851337	186.6293161	1449.982346	877.6258473
1685	1420.85	77.69301003	186.6906059	1449.993724	877.6247955
1686	1421.57	77.7274968	186.7518566	1450.005123	877.6237529
1687	1422.29	77.76197368	186.8130683	1450.016544	877.6227192
1688	1423.01	77.79644069	186.874241	1450.027986	877.6216946
1689	1423.72	77.83089782	186.9353747	1450.03945	877.620679
1690	1424.44	77.86534509	186.9964694	1450.050934	877.6196722
1691	1425.16	77.8997825	187.0575253	1450.06244	877.6186743
1692	1425.88	77.93421004	187.1185422	1450.073966	877.6176852
1693	1426.59	77.96862774	187.1795204	1450.085513	877.6167048
1694	1427.31	78.00303558	187.2404597	1450.097082	877.6157332
1695	1428.03	78.03743359	187.3013603	1450.10867	877.6147701
1696	1428.74	78.07182175	187.3622221	1450.12028	877.6138156
1697	1429.46	78.10620009	187.4230453	1450.13191	877.6128696
1698	1430.18	78.14056859	187.4838298	1450.14356	877.6119321
1699	1430.90	78.17492727	187.5445758	1450.155231	877.611003
1700	1431.61	78.20927614	187.6052831	1450.166922	877.6100823
1701	1432.33	78.24361519	187.6659519	1450.178633	877.6091698
1702	1433.05	78.27794443	187.7265822	1450.190364	877.6082657
1703	1433.76	78.31226387	187.7871741	1450.202115	877.6073697
1704	1434.48	78.34657352	187.8477275	1450.213887	877.6064818
1705	1435.19	78.38087337	187.9082426	1450.225677	877.6056021
1706	1435.91	78.41516343	187.9687193	1450.237488	877.6047304
1707	1436.63	78.44944371	188.0291576	1450.249319	877.6038667
1708	1437.34	78.48371421	188.0895577	1450.261168	877.6030109
1709	1438.06	78.51797494	188.1499196	1450.273038	877.602163
1710	1438.78	78.5522259	188.2102433	1450.284927	877.6013229
1711	1439.49	78.5864671	188.2705288	1450.296835	877.6004907
1712	1440.21	78.62069855	188.3307761	1450.308762	877.5996661
1713	1440.92	78.65492024	188.3909854	1450.320709	877.5988492
1714	1441.64	78.68913218	188.4511567	1450.332674	877.59804
1715	1442.36	78.72333439	188.5112899	1450.344659	877.5972383
1716	1443.07	78.75752685	188.5713851	1450.356662	877.5964441
1717	1443.79	78.79170959	188.6314424	1450.368685	877.5956574

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1718	1444.50	78.82588259	188.6914618	1450.380726	877.5948781
1719	1445.22	78.86004588	188.7514433	1450.392785	877.5941062
1720	1445.93	78.89419945	188.811387	1450.404864	877.5933416
1721	1446.65	78.92834331	188.8712929	1450.416961	877.5925843
1722	1447.36	78.96247747	188.931161	1450.429076	877.5918341
1723	1448.08	78.99660192	188.9909915	1450.441209	877.5910912
1724	1448.79	79.03071668	189.0507842	1450.453361	877.5903554
1725	1449.51	79.06482175	189.1105393	1450.465531	877.5896266
1726	1450.22	79.09891713	189.1702568	1450.477719	877.5889048
1727	1450.94	79.13300284	189.2299368	1450.489925	877.58819
1728	1451.65	79.16707887	189.2895791	1450.502148	877.5874821
1729	1452.37	79.20114523	189.349184	1450.51439	877.5867811
1730	1453.08	79.23520193	189.4087515	1450.52665	877.5860869
1731	1453.80	79.26924897	189.4682815	1450.538927	877.5853995
1732	1454.51	79.30328635	189.5277742	1450.551221	877.5847187
1733	1455.23	79.33731409	189.5872294	1450.563534	877.5840447
1734	1455.94	79.37133218	189.6466474	1450.575863	877.5833772
1735	1456.66	79.40534064	189.7060281	1450.58821	877.5827163
1736	1457.37	79.43933947	189.7653716	1450.600575	877.582062
1737	1458.09	79.47332867	189.8246779	1450.612956	877.5814141
1738	1458.80	79.50730824	189.883947	1450.625355	877.5807726
1739	1459.52	79.5412782	189.943179	1450.63777	877.5801375
1740	1460.23	79.57523856	190.0023739	1450.650203	877.5795088
1741	1460.94	79.6091893	190.0615318	1450.662652	877.5788863
1742	1461.66	79.64313044	190.1206527	1450.675118	877.57827
1743	1462.37	79.677062	190.1797365	1450.687601	877.5776599
1744	1463.09	79.71098396	190.2387835	1450.700101	877.577056
1745	1463.80	79.74489633	190.2977935	1450.712617	877.5764581
1746	1464.51	79.77879913	190.3567667	1450.72515	877.5758663
1747	1465.23	79.81269236	190.4157031	1450.737699	877.5752804
1748	1465.94	79.84657601	190.4746027	1450.750264	877.5747005
1749	1466.66	79.88045011	190.5334655	1450.762846	877.5741265
1750	1467.37	79.91431465	190.5922916	1450.775444	877.5735583
1751	1468.08	79.94816963	190.651081	1450.788058	877.572996
1752	1468.80	79.98201507	190.7098338	1450.800687	877.5724394
1753	1469.51	80.01585097	190.76855	1450.813333	877.5718884
1754	1470.22	80.04967734	190.8272297	1450.825995	877.5713432
1755	1470.94	80.08349417	190.8858728	1450.838673	877.5708036
1756	1471.65	80.11730148	190.9444794	1450.851366	877.5702695
1757	1472.36	80.15109928	191.0030496	1450.864075	877.5697409
1758	1473.08	80.18488756	191.0615833	1450.876799	877.5692178

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1759	1473.79	80.21866633	191.1200807	1450.889539	877.5687002
1760	1474.50	80.2524356	191.1785417	1450.902294	877.5681879
1761	1475.21	80.28619537	191.2369665	1450.915065	877.567681
1762	1475.93	80.31994565	191.2953549	1450.927851	877.5671793
1763	1476.64	80.35368645	191.3537072	1450.940652	877.5666829
1764	1477.35	80.38741776	191.4120232	1450.953468	877.5661917
1765	1478.07	80.4211396	191.4703031	1450.966299	877.5657056
1766	1478.78	80.45485197	191.5285469	1450.979145	877.5652246
1767	1479.49	80.48855488	191.5867546	1450.992006	877.5647487
1768	1480.20	80.52224833	191.6449262	1451.004882	877.5642778
1769	1480.92	80.55593233	191.7030619	1451.017773	877.5638119
1770	1481.63	80.58960688	191.7611616	1451.030678	877.5633509
1771	1482.34	80.62327199	191.8192253	1451.043598	877.5628948
1772	1483.05	80.65692767	191.8772532	1451.056532	877.5624435
1773	1483.77	80.69057391	191.9352452	1451.069481	877.561997
1774	1484.48	80.72421073	191.9932014	1451.082444	877.5615552
1775	1485.19	80.75783813	192.0511218	1451.095421	877.5611181
1776	1485.90	80.79145612	192.1090065	1451.108413	877.5606857
1777	1486.61	80.8250647	192.1668554	1451.121419	877.5602579
1778	1487.33	80.85866388	192.2246687	1451.134439	877.5598347
1779	1488.04	80.89225367	192.2824464	1451.147472	877.559416
1780	1488.75	80.92583406	192.3401884	1451.16052	877.5590018
1781	1489.46	80.95940507	192.3978949	1451.173582	877.558592
1782	1490.17	80.9929667	192.4555659	1451.186657	877.5581865
1783	1490.89	81.02651896	192.5132014	1451.199746	877.5577855
1784	1491.60	81.06006185	192.5708015	1451.212849	877.5573887
1785	1492.31	81.09359537	192.6283661	1451.225965	877.5569962
1786	1493.02	81.12711954	192.6858954	1451.239095	877.5566079
1787	1493.73	81.16063436	192.7433894	1451.252238	877.5562238
1788	1494.44	81.19413984	192.800848	1451.265395	877.5558438
1789	1495.15	81.22763598	192.8582714	1451.278564	877.5554679
1790	1495.86	81.26112278	192.9156596	1451.291747	877.555096
1791	1496.58	81.29460026	192.9730125	1451.304944	877.5547281
1792	1497.29	81.32806841	193.0303304	1451.318153	877.5543642
1793	1498.00	81.36144616	193.0873564	1450.966595	877.5540042
1794	1498.71	81.39422004	193.1424526	1448.123655	877.3490761
1795	1499.42	81.42643328	193.1957575	1444.261822	875.7303374
1796	1500.13	81.45811102	193.2473518	1439.270295	873.4350146
1797	1500.84	81.48927871	193.2973174	1433.516315	870.4551802
1798	1501.54	81.51995686	193.3457201	1435.272285	858.8595192
1799	1502.24	81.55007438	193.3923335	1439.746865	846.2872862

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1800	1502.92	81.57961451	193.4371046	1444.398944	835.5685687
1801	1503.60	81.60870984	193.4804573	1450.355161	825.5036322
1802	1504.27	81.63768083	193.523415	1458.433841	816.5023571
1803	1504.93	81.66650478	193.5659053	1467.788491	808.9229984
1804	1505.58	81.69516824	193.6078854	1478.244023	802.3600251
1805	1506.23	81.72365965	193.6493186	1489.549488	796.6406589
1806	1506.88	81.75197023	193.6901771	1498.589077	794.5320268
1807	1507.52	81.78012485	193.7305403	1503.149669	797.0243653
1808	1508.17	81.80817221	193.770564	1507.305374	798.5575624
1809	1508.81	81.83611689	193.810263	1510.842454	799.7194569
1810	1509.46	81.86396581	193.8496593	1513.896281	800.5418321
1811	1510.11	81.89172437	193.8887705	1516.551251	801.0894185
1812	1510.76	81.91939708	193.9276108	1518.878855	801.4119972
1813	1511.40	81.94698763	193.9661923	1520.937561	801.5506319
1814	1512.05	81.97449911	194.0045249	1522.775349	801.5389473
1815	1512.70	82.00193406	194.0426167	1524.431578	801.404494
1816	1513.35	82.02929459	194.0804746	1525.938533	801.1698426
1817	1514.00	82.05658246	194.1181044	1527.322695	800.853482
1818	1514.64	82.08379916	194.1555108	1528.605783	800.4705568
1819	1515.29	82.11094592	194.1926978	1529.80561	800.0334703
1820	1515.94	82.13802378	194.2296688	1530.936786	799.5523802
1821	1516.58	82.16503362	194.2664268	1532.011291	799.0356043
1822	1517.23	82.19197619	194.3029741	1533.038948	798.4899526
1823	1517.88	82.21885215	194.339313	1534.027815	797.9210004
1824	1518.52	82.24566204	194.3754453	1534.984498	797.3333115
1825	1519.17	82.27240635	194.4113726	1535.914412	796.7306209
1826	1519.81	82.29908551	194.4470964	1536.822001	796.1159852
1827	1520.45	82.32569989	194.4826178	1537.710907	795.4919051
1828	1521.10	82.35224982	194.5179381	1538.584116	794.8604262
1829	1521.74	82.37873562	194.5530582	1539.444077	794.2232215
1830	1522.38	82.40515755	194.5879792	1540.292801	793.5816588
1831	1523.02	82.43151587	194.6227019	1541.131933	792.9368561
1832	1523.66	82.45781082	194.6572272	1541.962827	792.2897269
1833	1524.30	82.48404261	194.6915557	1542.786592	791.6410174
1834	1524.94	82.51021146	194.7256883	1543.604137	790.9913365
1835	1525.58	82.53631756	194.7596256	1544.41621	790.3411811
1836	1526.22	82.5623611	194.7933683	1545.223425	789.6909565
1837	1526.86	82.58834225	194.8269171	1546.026287	789.0409925
1838	1527.49	82.61426121	194.8602726	1546.82521	788.3915579
1839	1528.13	82.64011813	194.8934353	1547.620536	787.7428707
1840	1528.77	82.66591319	194.926406	1548.412546	787.0951082

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1841	1529.40	82.69164654	194.9591851	1549.201471	786.448414
1842	1530.04	82.71731835	194.9917733	1549.987504	785.8029038
1843	1530.67	82.74292877	195.024171	1550.770802	785.1586714
1844	1531.30	82.76847797	195.056379	1551.551497	784.5157916
1845	1531.94	82.79396608	195.0883977	1552.329698	783.8743246
1846	1532.57	82.81939327	195.1202278	1553.105496	783.2343182
1847	1533.20	82.84475968	195.1518696	1553.878966	782.59581
1848	1533.83	82.87006547	195.1833238	1554.650174	781.9588294
1849	1534.46	82.89531077	195.2145909	1555.419171	781.3233994
1850	1535.09	82.92049574	195.2456715	1556.186004	780.6895372
1851	1535.72	82.94562053	195.2765661	1556.950712	780.0572557
1852	1536.35	82.97068527	195.3072751	1557.713328	779.426564
1853	1536.98	82.99569011	195.3377992	1558.473881	778.7974685
1854	1537.61	83.02063519	195.3681388	1559.232395	778.1699729
1855	1538.24	83.04552066	195.3982944	1559.988893	777.544079
1856	1538.86	83.07034665	195.4282667	1560.743394	776.9197872
1857	1539.49	83.09511332	195.458056	1561.495917	776.2970963
1858	1540.12	83.11985157	195.4877615	1562.39318	775.6760042
1859	1540.74	83.14456107	195.5173819	1563.377127	775.1126555
1860	1541.37	83.16924092	195.5469145	1564.431101	774.5973238
1861	1541.99	83.1938904	195.5763571	1565.541996	774.1212652
1862	1542.62	83.21850895	195.6057078	1566.699084	773.6773534
1863	1543.24	83.24309609	195.6349652	1567.461179	773.6921767
1864	1543.86	83.26765599	195.6641426	1568.049559	773.7853697
1865	1544.49	83.29219049	195.693246	1568.56872	773.8303495
1866	1545.11	83.31670035	195.7222777	1569.02996	773.8379123
1867	1545.73	83.34118618	195.7512399	1569.443835	773.8148771
1868	1546.36	83.3656485	195.7801342	1569.818959	773.7668586
1869	1546.98	83.39008772	195.808962	1570.162378	773.6984479
1870	1547.60	83.41450421	195.8377243	1570.479858	773.6133999
1871	1548.23	83.43889824	195.8664222	1570.776112	773.5147844
1872	1548.85	83.46327006	195.8950565	1571.054998	773.4051111
1873	1549.47	83.48761986	195.9236278	1571.319667	773.2864314
1874	1550.10	83.51194781	195.9521366	1571.572696	773.1604214
1875	1550.72	83.53625404	195.9805835	1571.816191	773.0284511
1876	1551.34	83.56053867	196.0089688	1572.051874	772.8916393
1877	1551.96	83.5848018	196.0372928	1572.281152	772.7509001
1878	1552.59	83.60904351	196.0655559	1572.505173	772.6069799
1879	1553.21	83.63326386	196.0937583	1572.724876	772.4604882
1880	1553.83	83.65746293	196.1219002	1572.941027	772.3119225
1881	1554.45	83.68164075	196.1499818	1573.154253	772.1616891

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1882	1555.07	83.70579739	196.1780033	1573.365065	772.0101193
1883	1555.69	83.72993287	196.2059648	1573.57388	771.8574836
1884	1556.32	83.75404723	196.2338665	1573.781038	771.7040026
1885	1556.94	83.7781405	196.2617085	1573.986818	771.5498562
1886	1557.56	83.80221272	196.2894909	1574.191445	771.3951912
1887	1558.18	83.82626391	196.3172138	1574.395106	771.2401272
1888	1558.80	83.8502941	196.3448774	1574.597951	771.0847617
1889	1559.42	83.8743033	196.3724817	1574.800103	770.9291741
1890	1560.04	83.89829155	196.4000268	1575.001662	770.7734292
1891	1560.66	83.92225885	196.4275128	1575.202712	770.6175797
1892	1561.28	83.94620524	196.4549399	1575.403317	770.4616685
1893	1561.90	83.97013073	196.482308	1575.603534	770.3057305
1894	1562.52	83.99403534	196.5096173	1575.803405	770.1497942
1895	1563.14	84.01791908	196.5368679	1576.002968	769.9938827
1896	1563.76	84.04178198	196.5640598	1576.202253	769.8380147
1897	1564.38	84.06562405	196.5911931	1576.401282	769.6822055
1898	1565.00	84.08944532	196.6182679	1576.600076	769.5264675
1899	1565.61	84.11324579	196.6452843	1576.79865	769.3708108
1900	1566.23	84.13702548	196.6722424	1576.997019	769.2152435
1901	1566.85	84.16078442	196.6991422	1577.195192	769.0597722
1902	1567.47	84.18452261	196.7259838	1577.393178	768.9044021
1903	1568.09	84.20824008	196.7527673	1577.590985	768.7491377
1904	1568.71	84.23193684	196.7794927	1577.788618	768.5939823
1905	1569.32	84.2556129	196.8061602	1577.986082	768.4389388
1906	1569.94	84.27926829	196.8327698	1578.183381	768.2840094
1907	1570.56	84.30290302	196.8593216	1578.380518	768.1291958
1908	1571.17	84.32651711	196.8858157	1578.577496	767.9744994
1909	1571.79	84.35011056	196.9122521	1578.774316	767.8199214
1910	1572.41	84.37368341	196.9386309	1578.970982	767.6654626
1911	1573.03	84.39723566	196.9649523	1579.167494	767.5111237
1912	1573.64	84.42076733	196.9912161	1579.363854	767.3569053
1913	1574.26	84.44427844	197.0174227	1579.560062	767.2028076
1914	1574.87	84.467769	197.0435719	1579.75612	767.0488309
1915	1575.49	84.49123903	197.069664	1579.952028	766.8949755
1916	1576.11	84.51466542	197.0956247	1580.032988	766.7412415
1917	1576.72	84.5380339	197.1214085	1579.971891	766.5434356
1918	1577.34	84.56134609	197.1470205	1579.813904	766.2819774
1919	1577.95	84.58460313	197.1724644	1579.576937	765.9702654
1920	1578.57	84.60780597	197.1977435	1579.276243	765.6180244
1921	1579.18	84.63095541	197.2228602	1579.30025	764.8570874
1922	1579.80	84.65404818	197.2478042	1579.654947	763.8326109

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1923	1580.41	84.67708095	197.2725648	1580.091794	762.8849121
1924	1581.02	84.700053	197.2971398	1580.602295	761.987704
1925	1581.63	84.7229637	197.3215272	1581.171645	761.1321568
1926	1582.24	84.74581258	197.3457256	1581.788183	760.3106349
1927	1582.85	84.76859929	197.3697339	1582.442459	759.5169841
1928	1583.46	84.79132358	197.3935514	1583.126831	758.7462277
1929	1584.07	84.81398528	197.4171776	1583.835113	757.9943419
1930	1584.68	84.83658427	197.4406122	1584.562306	757.258073
1931	1585.29	84.85912051	197.4638551	1585.304363	756.5347896
1932	1585.89	84.88159399	197.4869063	1586.058014	755.8223638
1933	1586.50	84.90400472	197.509766	1586.820615	755.1190741
1934	1587.11	84.92635276	197.5324344	1587.590028	754.4235279
1935	1587.71	84.94863817	197.5549117	1588.364526	753.734598
1936	1588.32	84.97086104	197.5771984	1589.142714	753.0513721
1937	1588.92	84.99302149	197.5992948	1589.923464	752.3731116
1938	1589.52	85.01511961	197.6212013	1590.705868	751.6992177
1939	1590.13	85.03715553	197.6429184	1591.489192	751.0292052
1940	1590.73	85.05912939	197.6644466	1592.272843	750.3626805
1941	1591.33	85.08104132	197.6857864	1593.056346	749.6993239
1942	1591.93	85.10289145	197.7069382	1593.839316	749.0388756
1943	1592.53	85.12467994	197.7279027	1594.621447	748.381124
1944	1593.13	85.14640692	197.7486803	1595.40249	747.7258966
1945	1593.73	85.16807255	197.7692715	1596.182247	747.0730526
1946	1594.33	85.18967697	197.789677	1596.960559	746.4224766
1947	1594.93	85.21122033	197.8098973	1597.737302	745.7740738
1948	1595.52	85.23270279	197.8299328	1598.512373	745.1277661
1949	1596.12	85.2541245	197.8497842	1599.285695	744.4834888
1950	1596.72	85.2754856	197.869452	1600.057205	743.8411883
1951	1597.31	85.29678626	197.8889368	1600.826855	743.2008194
1952	1597.91	85.31802661	197.908239	1601.594607	742.5623446
1953	1598.50	85.33920683	197.9273593	1602.360433	741.9257316
1954	1599.10	85.36032704	197.9462982	1603.124311	741.2909531
1955	1599.69	85.38138742	197.9650562	1603.886227	740.6579854
1956	1600.29	85.4023881	197.9836339	1604.646169	740.0268081
1957	1600.88	85.42332924	198.0020319	1605.404131	739.3974029
1958	1601.47	85.44421099	198.0202506	1606.16011	738.7697539
1959	1602.06	85.46503349	198.0382906	1606.914103	738.1438466
1960	1602.65	85.4857969	198.0561524	1607.666111	737.5196679
1961	1603.24	85.50650137	198.0738367	1608.416137	736.8972058
1962	1603.83	85.52714703	198.0913438	1609.164184	736.276449
1963	1604.42	85.54773405	198.1086744	1609.910257	735.6573873

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
1964	1605.01	85.56826256	198.125829	1610.654361	735.0400106
1965	1605.60	85.58873271	198.142808	1611.396502	734.4243098
1966	1606.19	85.60914465	198.1596121	1612.136687	733.8102758
1967	1606.78	85.62949852	198.1762417	1612.874922	733.1979001
1968	1607.36	85.64979447	198.1926974	1613.611215	732.5871742
1969	1607.95	85.67003263	198.2089797	1614.345572	731.9780901
1970	1608.53	85.69021316	198.225089	1615.078003	731.3706398
1971	1609.12	85.7103362	198.2410261	1615.808514	730.7648157
1972	1609.70	85.73040188	198.2567912	1616.537114	730.1606101
1973	1610.29	85.75041036	198.272385	1617.26381	729.5580155
1974	1610.87	85.77036176	198.2878079	1617.988611	728.9570245
1975	1611.45	85.79025623	198.3030605	1618.711525	728.3576299
1976	1612.04	85.81010029	198.3181637	1619.465484	727.7598245
1977	1612.62	85.82992613	198.3332212	1620.40473	727.1751041
1978	1613.20	85.84973188	198.3482268	1621.458137	726.6597468
1979	1613.78	85.86951639	198.363177	1622.603032	726.2010902
1980	1614.36	85.88927875	198.3780688	1623.821498	725.7882378
1981	1614.94	85.90901823	198.3928999	1625.099064	725.4123866
1982	1615.52	85.92873422	198.4076684	1625.806579	725.6838918
1983	1616.10	85.94843253	198.4223928	1626.375658	725.9223863
1984	1616.68	85.96811456	198.4370779	1626.849991	726.1053114
1985	1617.26	85.98778129	198.4517267	1627.248015	726.2428617
1986	1617.84	86.00743349	198.4663417	1627.584368	726.3437425
1987	1618.42	86.02707181	198.4809251	1627.870886	726.4150006
1988	1619.01	86.04669675	198.4954784	1628.117138	726.4623335
1989	1619.59	86.06630872	198.510003	1628.330862	726.490347
1990	1620.17	86.08590808	198.5245	1628.51831	726.5027637
1991	1620.75	86.10549509	198.5389703	1628.684538	726.5025916
1992	1621.33	86.12506997	198.5534147	1628.833629	726.4922613
1993	1621.91	86.14463291	198.5678337	1628.968884	726.4737362
1994	1622.49	86.16418406	198.5822278	1629.092966	726.4486019
1995	1623.07	86.18372353	198.5965974	1629.20803	726.418139
1996	1623.65	86.20325143	198.6109429	1629.315812	726.3833815
1997	1624.23	86.22276784	198.6252645	1629.417716	726.3451639
1998	1624.81	86.24227283	198.6395624	1629.514876	726.3041598
1999	1625.39	86.26176644	198.6538369	1629.608204	726.2609129
2000	1625.97	86.28124874	198.668088	1629.698439	726.2158618
2001	1626.55	86.30071975	198.682316	1629.786176	726.1693602
2002	1627.13	86.32017951	198.6965209	1629.871894	726.1216934
2003	1627.71	86.33962804	198.7107028	1629.955982	726.0730917
2004	1628.29	86.35906538	198.7248619	1630.03875	726.0237404

Attachment 7

	G	H	I	J	K
20					
21	Rack Temp	Qupper	Qlower	Qchannel	Qrack
22	F	BTU/hr	BTU/hr	BTU/hr	BTU/hr
2005	1628.87	86.37849155	198.7389982	1630.120452	725.9737892
2006	1629.45	86.39790655	198.7531117	1630.201289	725.9233586
2007	1630.03	86.41731042	198.7672026	1630.281426	725.8725456
2008	1630.61	86.43670316	198.7812709	1630.360993	725.8214286
2009	1631.19	86.45608478	198.7953166	1630.440098	725.7700705
2010	1631.77	86.4754553	198.8093398	1630.518825	725.7185222
2011	1632.34	86.49481474	198.8233405	1630.597244	725.6668244
2012	1632.92	86.51416309	198.8373188	1630.675409	725.6150101
2013	1633.50	86.53350038	198.8512747	1630.753366	725.5631058
2014	1634.08	86.55282661	198.8652083	1630.831151	725.5111328
2015	1634.66	86.57214179	198.8791196	1630.908791	725.4591081
2016	1635.24	86.59144593	198.8930086	1630.986312	725.4070457
2017	1635.82	86.61073903	198.9068754	1631.063731	725.3549565
2018	1636.40	86.63002112	198.9207199	1631.141063	725.3028496
2019	1636.98	86.64929219	198.9345424	1631.21832	725.250732
2020	1637.55	86.66855226	198.9483427	1631.295513	725.1986094
2021	1638.13	86.68780132	198.9621209	1631.372649	725.1464867
2022	1638.71	86.70703941	198.975877	1631.449734	725.0943673
2023	1639.29	86.7262665	198.9896112	1631.526774	725.0422543
2024	1639.87	86.74548263	199.0033233	1631.603772	724.9901501

	L	M	N	O	P	Q
1			UO2 constants (Table 2-1 NUREG/CR-6150)			Stainless S (Equation 6-
2	Cp (BTU/lb-F)		Ratio (Y)	2		
3	0.067116		Gas Const (R)	8.3143 j/mol*K		
4	0.072131		Einstein Temp (theta)	535.285 K		For 300 ≤ T C _{ps} = 326 - 0.24T
5	0.0791		K1	296.7 J/kg*K		
6	0.0896		K2	2.430E-02 J/kg*K^2		
7	0.1199		K3	8.745E+07 J/Kg		
8	0.1409		Ed	1.577E+05 j/mol*K		Zirc O (Equation 3.2
9	0.1469					
10	0.1717					
11				$k = 7.51 + 2.09 \times 10^{-2} T - 1.45 \times 10^{-4} T^2$		
12	0.1949					
13	0.1839		UO2 specific Heat (J/kg*K)			
14	0.1478					
15	0.1120		$FCP = \frac{K_1 \theta^2 e^{\left(\frac{\theta}{T}\right)}}{T^2 \left[e^{\left(\frac{\theta}{T}\right)} - 1 \right]^2} + K_2 T + \frac{Y K_3 E_D}{2RT^2} e^{\left(\frac{-E_D}{RT}\right)}$			
16	0.0850					
17						
18						
19	x=\$B\$2-J24- I24-H24	x=B24*H24/ (V24*W24)	x=I24*B24/(Y24*Z24)	x=(J24-K24)* B24/(AB24*A C24)	x=K24*B24/ (AD24*AE24)	x=B24*L24/ (R24*S24+T24*U24)
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
23	7.87E+03	0.00	0.00	0.00	0.00	1.17
24	7.86E+03	0.00	0.00	0.02	0.00	1.17
25	7.84E+03	0.00	0.00	0.04	0.00	1.17
26	7.83E+03	0.00	0.00	0.07	0.00	1.17
27	7.82E+03	0.00	0.00	0.09	0.00	1.16
28	7.80E+03	0.00	0.01	0.10	0.00	1.16
29	7.79E+03	0.00	0.01	0.12	0.00	1.16
30	7.78E+03	0.00	0.01	0.14	0.01	1.15
31	7.76E+03	0.01	0.01	0.16	0.01	1.15
32	7.75E+03	0.01	0.01	0.18	0.01	1.15
33	7.74E+03	0.01	0.01	0.19	0.01	1.15
34	7.73E+03	0.01	0.01	0.21	0.01	1.14
35	7.71E+03	0.01	0.01	0.22	0.02	1.14
36	7.70E+03	0.01	0.01	0.24	0.02	1.14

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
37	7.69E+03	0.01	0.02	0.25	0.02	1.13
38	7.68E+03	0.01	0.02	0.27	0.02	1.13
39	7.67E+03	0.01	0.02	0.28	0.03	1.13
40	7.65E+03	0.01	0.02	0.30	0.03	1.13
41	7.64E+03	0.01	0.02	0.31	0.03	1.12
42	7.63E+03	0.01	0.02	0.32	0.04	1.12
43	7.62E+03	0.01	0.02	0.33	0.04	1.12
44	7.61E+03	0.01	0.02	0.34	0.04	1.12
45	7.60E+03	0.01	0.02	0.36	0.05	1.11
46	7.59E+03	0.02	0.02	0.37	0.05	1.11
47	7.58E+03	0.02	0.03	0.38	0.06	1.11
48	7.57E+03	0.02	0.03	0.39	0.06	1.11
49	7.55E+03	0.02	0.03	0.40	0.06	1.10
50	7.54E+03	0.02	0.03	0.41	0.07	1.10
51	7.53E+03	0.02	0.03	0.42	0.07	1.10
52	7.52E+03	0.02	0.03	0.43	0.08	1.10
53	7.51E+03	0.02	0.03	0.44	0.08	1.10
54	7.50E+03	0.02	0.03	0.45	0.09	1.09
55	7.49E+03	0.02	0.03	0.46	0.09	1.09
56	7.48E+03	0.02	0.04	0.46	0.10	1.09
57	7.47E+03	0.02	0.04	0.47	0.10	1.09
58	7.46E+03	0.02	0.04	0.48	0.11	1.08
59	7.45E+03	0.02	0.04	0.49	0.11	1.08
60	7.44E+03	0.02	0.04	0.50	0.12	1.08
61	7.43E+03	0.03	0.04	0.50	0.12	1.08
62	7.42E+03	0.03	0.04	0.51	0.13	1.08
63	7.41E+03	0.03	0.04	0.52	0.13	1.07
64	7.40E+03	0.03	0.04	0.52	0.14	1.07
65	7.39E+03	0.03	0.04	0.53	0.14	1.07
66	7.38E+03	0.03	0.04	0.54	0.15	1.07
67	7.37E+03	0.03	0.05	0.54	0.15	1.07
68	7.36E+03	0.03	0.05	0.55	0.16	1.06
69	7.36E+03	0.03	0.05	0.56	0.16	1.06
70	7.35E+03	0.03	0.05	0.56	0.17	1.06
71	7.34E+03	0.03	0.05	0.57	0.17	1.06
72	7.33E+03	0.03	0.05	0.58	0.18	1.06
73	7.32E+03	0.03	0.05	0.58	0.18	1.05
74	7.31E+03	0.03	0.05	0.59	0.19	1.05
75	7.30E+03	0.03	0.05	0.59	0.20	1.05
76	7.29E+03	0.03	0.05	0.60	0.20	1.05
77	7.28E+03	0.03	0.06	0.60	0.21	1.05

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
78	7.27E+03	0.04	0.06	0.61	0.21	1.04
79	7.26E+03	0.04	0.06	0.61	0.22	1.04
80	7.26E+03	0.04	0.06	0.62	0.22	1.04
81	7.25E+03	0.04	0.06	0.62	0.23	1.04
82	7.24E+03	0.04	0.06	0.63	0.24	1.04
83	7.23E+03	0.04	0.06	0.63	0.24	1.03
84	7.22E+03	0.04	0.06	0.64	0.25	1.03
85	7.21E+03	0.04	0.06	0.64	0.25	1.03
86	7.20E+03	0.04	0.06	0.65	0.26	1.03
87	7.19E+03	0.04	0.06	0.65	0.26	1.03
88	7.19E+03	0.04	0.07	0.65	0.27	1.03
89	7.18E+03	0.04	0.07	0.66	0.28	1.02
90	7.17E+03	0.04	0.07	0.66	0.28	1.02
91	7.16E+03	0.04	0.07	0.67	0.29	1.02
92	7.15E+03	0.04	0.07	0.67	0.29	1.02
93	7.14E+03	0.04	0.07	0.68	0.30	1.02
94	7.13E+03	0.04	0.07	0.68	0.30	1.02
95	7.13E+03	0.05	0.07	0.68	0.31	1.01
96	7.12E+03	0.05	0.07	0.69	0.32	1.01
97	7.11E+03	0.05	0.07	0.69	0.32	1.01
98	7.10E+03	0.05	0.07	0.69	0.33	1.01
99	7.09E+03	0.05	0.08	0.70	0.33	1.01
100	7.08E+03	0.05	0.08	0.70	0.34	1.00
101	7.08E+03	0.05	0.08	0.70	0.35	1.00
102	7.07E+03	0.05	0.08	0.71	0.35	1.00
103	7.06E+03	0.05	0.08	0.71	0.36	1.00
104	7.05E+03	0.05	0.08	0.71	0.36	1.00
105	7.04E+03	0.05	0.08	0.72	0.37	1.00
106	7.04E+03	0.05	0.08	0.72	0.37	0.99
107	7.03E+03	0.05	0.08	0.72	0.38	0.99
108	7.02E+03	0.05	0.08	0.73	0.39	0.99
109	7.01E+03	0.05	0.08	0.73	0.39	0.99
110	7.00E+03	0.05	0.09	0.73	0.40	0.99
111	7.00E+03	0.05	0.09	0.74	0.40	0.99
112	6.99E+03	0.06	0.09	0.74	0.41	0.99
113	6.98E+03	0.06	0.09	0.74	0.42	0.98
114	6.97E+03	0.06	0.09	0.74	0.42	0.98
115	6.97E+03	0.06	0.09	0.75	0.43	0.98
116	6.96E+03	0.06	0.09	0.75	0.43	0.98
117	6.95E+03	0.06	0.09	0.75	0.44	0.98
118	6.94E+03	0.06	0.09	0.75	0.44	0.98

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
119	6.94E+03	0.06	0.09	0.76	0.45	0.97
120	6.93E+03	0.06	0.09	0.76	0.46	0.97
121	6.92E+03	0.06	0.09	0.76	0.46	0.97
122	6.91E+03	0.06	0.10	0.76	0.47	0.97
123	6.91E+03	0.06	0.10	0.77	0.47	0.97
124	6.90E+03	0.06	0.10	0.77	0.48	0.97
125	6.89E+03	0.06	0.10	0.77	0.48	0.97
126	6.88E+03	0.06	0.10	0.77	0.49	0.96
127	6.88E+03	0.06	0.10	0.78	0.50	0.96
128	6.87E+03	0.06	0.10	0.78	0.50	0.96
129	6.86E+03	0.06	0.10	0.78	0.51	0.96
130	6.85E+03	0.06	0.10	0.78	0.51	0.96
131	6.85E+03	0.07	0.10	0.79	0.52	0.96
132	6.84E+03	0.07	0.10	0.79	0.52	0.96
133	6.83E+03	0.07	0.10	0.79	0.53	0.95
134	6.82E+03	0.07	0.11	0.79	0.54	0.95
135	6.82E+03	0.07	0.11	0.79	0.54	0.95
136	6.81E+03	0.07	0.11	0.80	0.55	0.95
137	6.80E+03	0.07	0.11	0.80	0.55	0.95
138	6.80E+03	0.07	0.11	0.80	0.56	0.95
139	6.79E+03	0.07	0.11	0.80	0.56	0.95
140	6.78E+03	0.07	0.11	0.80	0.57	0.94
141	6.78E+03	0.07	0.11	0.81	0.57	0.94
142	6.77E+03	0.07	0.11	0.81	0.58	0.94
143	6.76E+03	0.07	0.11	0.81	0.58	0.94
144	6.75E+03	0.07	0.11	0.81	0.59	0.94
145	6.75E+03	0.07	0.11	0.81	0.60	0.94
146	6.74E+03	0.07	0.12	0.82	0.60	0.94
147	6.73E+03	0.07	0.12	0.82	0.61	0.93
148	6.73E+03	0.07	0.12	0.82	0.61	0.93
149	6.72E+03	0.07	0.12	0.82	0.62	0.93
150	6.71E+03	0.08	0.12	0.82	0.62	0.93
151	6.71E+03	0.08	0.12	0.82	0.63	0.93
152	6.70E+03	0.08	0.12	0.83	0.63	0.93
153	6.69E+03	0.08	0.12	0.83	0.64	0.93
154	6.69E+03	0.08	0.12	0.83	0.64	0.93
155	6.68E+03	0.08	0.12	0.83	0.65	0.92
156	6.67E+03	0.08	0.12	0.83	0.65	0.92
157	6.67E+03	0.08	0.12	0.83	0.66	0.92
158	6.66E+03	0.08	0.12	0.84	0.66	0.92
159	6.66E+03	0.08	0.13	0.84	0.67	0.92

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
160	6.65E+03	0.08	0.13	0.84	0.67	0.92
161	6.64E+03	0.08	0.13	0.84	0.68	0.92
162	6.64E+03	0.08	0.13	0.84	0.68	0.92
163	6.63E+03	0.08	0.13	0.84	0.69	0.91
164	6.62E+03	0.08	0.13	0.84	0.69	0.91
165	6.62E+03	0.08	0.13	0.85	0.70	0.91
166	6.61E+03	0.08	0.13	0.85	0.70	0.91
167	6.61E+03	0.08	0.13	0.85	0.71	0.91
168	6.60E+03	0.08	0.13	0.85	0.71	0.91
169	6.59E+03	0.08	0.13	0.85	0.72	0.91
170	6.59E+03	0.09	0.13	0.85	0.72	0.91
171	6.58E+03	0.09	0.13	0.85	0.73	0.90
172	6.57E+03	0.09	0.13	0.86	0.73	0.90
173	6.57E+03	0.09	0.14	0.86	0.74	0.90
174	6.56E+03	0.09	0.14	0.86	0.74	0.90
175	6.56E+03	0.09	0.14	0.86	0.74	0.90
176	6.55E+03	0.09	0.14	0.86	0.75	0.90
177	6.55E+03	0.09	0.14	0.86	0.75	0.90
178	6.54E+03	0.09	0.14	0.86	0.76	0.90
179	6.53E+03	0.09	0.14	0.87	0.76	0.90
180	6.53E+03	0.09	0.14	0.87	0.77	0.89
181	6.52E+03	0.09	0.14	0.87	0.77	0.89
182	6.52E+03	0.09	0.14	0.87	0.78	0.89
183	6.51E+03	0.09	0.14	0.87	0.78	0.89
184	6.51E+03	0.09	0.14	0.87	0.79	0.89
185	6.50E+03	0.09	0.14	0.87	0.79	0.89
186	6.49E+03	0.09	0.15	0.87	0.79	0.89
187	6.49E+03	0.09	0.15	0.87	0.80	0.89
188	6.48E+03	0.09	0.15	0.88	0.80	0.89
189	6.48E+03	0.09	0.15	0.88	0.81	0.89
190	6.47E+03	0.09	0.15	0.88	0.81	0.88
191	6.47E+03	0.10	0.15	0.88	0.81	0.88
192	6.46E+03	0.10	0.15	0.88	0.82	0.88
193	6.46E+03	0.10	0.15	0.88	0.82	0.88
194	6.45E+03	0.10	0.15	0.88	0.83	0.88
195	6.45E+03	0.10	0.15	0.88	0.83	0.88
196	6.44E+03	0.10	0.15	0.88	0.83	0.88
197	6.44E+03	0.10	0.15	0.89	0.84	0.88
198	6.43E+03	0.10	0.15	0.89	0.84	0.88
199	6.43E+03	0.10	0.15	0.89	0.85	0.88
200	6.42E+03	0.10	0.16	0.89	0.85	0.87

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
201	6.42E+03	0.10	0.16	0.89	0.85	0.87
202	6.41E+03	0.10	0.16	0.89	0.86	0.87
203	6.41E+03	0.10	0.16	0.89	0.86	0.87
204	6.40E+03	0.10	0.16	0.89	0.87	0.87
205	6.40E+03	0.10	0.16	0.89	0.87	0.87
206	6.39E+03	0.10	0.16	0.89	0.87	0.87
207	6.39E+03	0.10	0.16	0.90	0.88	0.87
208	6.38E+03	0.10	0.16	0.90	0.88	0.87
209	6.38E+03	0.10	0.16	0.90	0.88	0.87
210	6.37E+03	0.10	0.16	0.90	0.89	0.87
211	6.37E+03	0.10	0.16	0.90	0.89	0.86
212	6.36E+03	0.11	0.16	0.90	0.89	0.86
213	6.36E+03	0.11	0.16	0.90	0.90	0.86
214	6.35E+03	0.11	0.16	0.90	0.90	0.86
215	6.35E+03	0.11	0.17	0.90	0.90	0.86
216	6.35E+03	0.11	0.17	0.90	0.91	0.86
217	6.34E+03	0.11	0.17	0.90	0.91	0.86
218	6.34E+03	0.11	0.17	0.91	0.91	0.86
219	6.33E+03	0.11	0.17	0.91	0.92	0.86
220	6.33E+03	0.11	0.17	0.91	0.92	0.86
221	6.32E+03	0.11	0.17	0.91	0.92	0.86
222	6.32E+03	0.11	0.17	0.91	0.93	0.86
223	6.32E+03	0.11	0.17	0.91	0.93	0.85
224	6.31E+03	0.11	0.17	0.91	0.93	0.85
225	6.31E+03	0.11	0.17	0.91	0.94	0.85
226	6.30E+03	0.11	0.17	0.91	0.94	0.85
227	6.30E+03	0.11	0.17	0.91	0.94	0.85
228	6.29E+03	0.11	0.17	0.91	0.94	0.85
229	6.29E+03	0.11	0.17	0.91	0.95	0.85
230	6.29E+03	0.11	0.18	0.92	0.95	0.85
231	6.28E+03	0.11	0.18	0.92	0.95	0.85
232	6.28E+03	0.11	0.18	0.92	0.96	0.85
233	6.28E+03	0.11	0.18	0.92	0.96	0.85
234	6.27E+03	0.11	0.18	0.92	0.96	0.85
235	6.27E+03	0.12	0.18	0.92	0.96	0.84
236	6.26E+03	0.12	0.18	0.92	0.97	0.84
237	6.26E+03	0.12	0.18	0.92	0.97	0.84
238	6.26E+03	0.12	0.18	0.92	0.97	0.84
239	6.25E+03	0.12	0.18	0.92	0.97	0.84
240	6.25E+03	0.12	0.18	0.92	0.98	0.84
241	6.25E+03	0.12	0.18	0.92	0.98	0.84

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
242	6.24E+03	0.12	0.18	0.92	0.98	0.84
243	6.24E+03	0.12	0.18	0.92	0.98	0.84
244	6.24E+03	0.12	0.18	0.93	0.99	0.84
245	6.23E+03	0.12	0.18	0.93	0.99	0.84
246	6.23E+03	0.12	0.19	0.93	0.99	0.84
247	6.23E+03	0.12	0.19	0.93	0.99	0.84
248	6.22E+03	0.12	0.19	0.93	1.00	0.84
249	6.22E+03	0.12	0.19	0.93	1.00	0.84
250	6.22E+03	0.12	0.19	0.93	1.00	0.83
251	6.21E+03	0.12	0.19	0.93	1.00	0.83
252	6.21E+03	0.12	0.19	0.93	1.00	0.83
253	6.21E+03	0.12	0.19	0.93	1.01	0.83
254	6.21E+03	0.12	0.19	0.93	1.01	0.83
255	6.20E+03	0.12	0.19	0.93	1.01	0.83
256	6.20E+03	0.12	0.19	0.93	1.01	0.83
257	6.20E+03	0.12	0.19	0.93	1.01	0.83
258	6.19E+03	0.13	0.19	0.93	1.02	0.83
259	6.19E+03	0.13	0.19	0.93	1.02	0.83
260	6.19E+03	0.13	0.19	0.93	1.02	0.83
261	6.19E+03	0.13	0.19	0.93	1.02	0.83
262	6.18E+03	0.13	0.20	0.93	1.02	0.83
263	6.18E+03	0.13	0.20	0.94	1.02	0.83
264	6.18E+03	0.13	0.20	0.94	1.03	0.83
265	6.18E+03	0.13	0.20	0.94	1.03	0.83
266	6.17E+03	0.13	0.20	0.94	1.03	0.83
267	6.17E+03	0.13	0.20	0.94	1.03	0.82
268	6.17E+03	0.13	0.20	0.94	1.03	0.82
269	6.17E+03	0.13	0.20	0.94	1.03	0.82
270	6.16E+03	0.13	0.20	0.94	1.04	0.82
271	6.16E+03	0.13	0.20	0.94	1.04	0.82
272	6.16E+03	0.13	0.20	0.94	1.04	0.82
273	6.16E+03	0.13	0.20	0.94	1.04	0.82
274	6.15E+03	0.13	0.20	0.94	1.04	0.82
275	6.15E+03	0.13	0.20	0.94	1.04	0.82
276	6.15E+03	0.13	0.20	0.94	1.04	0.82
277	6.15E+03	0.13	0.20	0.94	1.04	0.82
278	6.15E+03	0.13	0.21	0.94	1.05	0.82
279	6.14E+03	0.13	0.21	0.94	1.05	0.82
280	6.14E+03	0.13	0.21	0.94	1.05	0.82
281	6.14E+03	0.13	0.21	0.94	1.05	0.82
282	6.14E+03	0.14	0.21	0.94	1.05	0.82

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
283	6.14E+03	0.14	0.21	0.94	1.05	0.82
284	6.13E+03	0.14	0.21	0.94	1.05	0.82
285	6.13E+03	0.14	0.21	0.94	1.05	0.82
286	6.13E+03	0.14	0.21	0.94	1.05	0.82
287	6.13E+03	0.14	0.21	0.94	1.06	0.82
288	6.13E+03	0.14	0.21	0.94	1.06	0.82
289	6.13E+03	0.14	0.21	0.94	1.06	0.81
290	6.12E+03	0.14	0.21	0.94	1.06	0.81
291	6.12E+03	0.14	0.21	0.94	1.06	0.81
292	6.12E+03	0.14	0.21	0.94	1.06	0.81
293	6.12E+03	0.14	0.21	0.94	1.06	0.81
294	6.12E+03	0.14	0.21	0.94	1.06	0.81
295	6.12E+03	0.14	0.22	0.94	1.06	0.81
296	6.12E+03	0.14	0.22	0.94	1.06	0.81
297	6.11E+03	0.14	0.22	0.94	1.06	0.81
298	6.11E+03	0.14	0.22	0.94	1.06	0.81
299	6.11E+03	0.14	0.22	0.95	1.06	0.81
300	6.11E+03	0.14	0.22	0.95	1.07	0.81
301	6.11E+03	0.14	0.22	0.95	1.07	0.81
302	6.11E+03	0.14	0.22	0.95	1.07	0.81
303	6.11E+03	0.14	0.22	0.95	1.07	0.81
304	6.11E+03	0.14	0.22	0.95	1.07	0.81
305	6.10E+03	0.14	0.22	0.95	1.07	0.81
306	6.10E+03	0.14	0.22	0.95	1.07	0.81
307	6.10E+03	0.15	0.22	0.95	1.07	0.81
308	6.10E+03	0.15	0.22	0.95	1.07	0.81
309	6.10E+03	0.15	0.22	0.95	1.07	0.81
310	6.10E+03	0.15	0.22	0.95	1.07	0.81
311	6.10E+03	0.15	0.22	0.95	1.07	0.81
312	6.10E+03	0.15	0.22	0.95	1.07	0.81
313	6.10E+03	0.15	0.23	0.95	1.07	0.81
314	6.10E+03	0.15	0.23	0.95	1.07	0.81
315	6.09E+03	0.15	0.23	0.95	1.07	0.81
316	6.09E+03	0.15	0.23	0.95	1.07	0.81
317	6.09E+03	0.15	0.23	0.95	1.07	0.81
318	6.09E+03	0.15	0.23	0.95	1.07	0.80
319	6.09E+03	0.15	0.23	0.95	1.07	0.80
320	6.09E+03	0.15	0.23	0.95	1.07	0.80
321	6.09E+03	0.15	0.23	0.95	1.07	0.80
322	6.09E+03	0.15	0.23	0.95	1.07	0.80
323	6.09E+03	0.15	0.23	0.95	1.07	0.80

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
324	6.09E+03	0.15	0.23	0.95	1.07	0.80
325	6.09E+03	0.15	0.23	0.95	1.07	0.80
326	6.09E+03	0.15	0.23	0.94	1.07	0.80
327	6.09E+03	0.15	0.23	0.94	1.07	0.80
328	6.09E+03	0.15	0.23	0.94	1.07	0.80
329	6.09E+03	0.15	0.23	0.94	1.07	0.80
330	6.09E+03	0.15	0.23	0.94	1.07	0.80
331	6.09E+03	0.15	0.24	0.94	1.07	0.80
332	6.08E+03	0.16	0.24	0.94	1.07	0.80
333	6.08E+03	0.16	0.24	0.94	1.07	0.80
334	6.08E+03	0.16	0.24	0.94	1.07	0.80
335	6.08E+03	0.16	0.24	0.94	1.07	0.80
336	6.08E+03	0.16	0.24	0.94	1.07	0.80
337	6.08E+03	0.16	0.24	0.94	1.07	0.80
338	6.08E+03	0.16	0.24	0.94	1.07	0.80
339	6.08E+03	0.16	0.24	0.94	1.07	0.80
340	6.08E+03	0.16	0.24	0.94	1.07	0.80
341	6.08E+03	0.16	0.24	0.94	1.07	0.80
342	6.08E+03	0.16	0.24	0.94	1.07	0.80
343	6.08E+03	0.16	0.24	0.94	1.07	0.80
344	6.08E+03	0.16	0.24	0.94	1.07	0.80
345	6.08E+03	0.16	0.24	0.94	1.07	0.80
346	6.08E+03	0.16	0.24	0.94	1.07	0.80
347	6.08E+03	0.16	0.24	0.94	1.07	0.80
348	6.08E+03	0.16	0.24	0.94	1.07	0.80
349	6.08E+03	0.16	0.25	0.94	1.07	0.80
350	6.08E+03	0.16	0.25	0.94	1.07	0.80
351	6.08E+03	0.16	0.25	0.94	1.06	0.80
352	6.08E+03	0.16	0.25	0.94	1.06	0.80
353	6.08E+03	0.16	0.25	0.94	1.06	0.80
354	6.08E+03	0.16	0.25	0.94	1.06	0.80
355	6.08E+03	0.16	0.25	0.94	1.06	0.80
356	6.08E+03	0.16	0.25	0.94	1.06	0.80
357	6.08E+03	0.16	0.25	0.94	1.06	0.80
358	6.08E+03	0.17	0.25	0.94	1.06	0.80
359	6.08E+03	0.17	0.25	0.94	1.06	0.80
360	6.08E+03	0.17	0.25	0.94	1.06	0.80
361	6.08E+03	0.17	0.25	0.94	1.06	0.80
362	6.08E+03	0.17	0.25	0.94	1.06	0.80
363	6.08E+03	0.17	0.25	0.94	1.06	0.80
364	6.08E+03	0.17	0.25	0.94	1.06	0.80

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
365	6.08E+03	0.17	0.25	0.94	1.06	0.80
366	6.09E+03	0.17	0.25	0.94	1.06	0.80
367	6.09E+03	0.17	0.26	0.94	1.06	0.80
368	6.09E+03	0.17	0.26	0.93	1.05	0.80
369	6.09E+03	0.17	0.26	0.93	1.05	0.80
370	6.09E+03	0.17	0.26	0.93	1.05	0.80
371	6.09E+03	0.17	0.26	0.93	1.05	0.80
372	6.09E+03	0.17	0.26	0.93	1.05	0.80
373	6.09E+03	0.17	0.26	0.93	1.05	0.80
374	6.09E+03	0.17	0.26	0.93	1.05	0.80
375	6.09E+03	0.17	0.26	0.93	1.05	0.80
376	6.09E+03	0.17	0.26	0.93	1.05	0.80
377	6.09E+03	0.17	0.26	0.93	1.05	0.79
378	6.09E+03	0.17	0.26	0.93	1.05	0.79
379	6.09E+03	0.17	0.26	0.93	1.05	0.79
380	6.09E+03	0.17	0.26	0.93	1.05	0.79
381	6.09E+03	0.17	0.26	0.93	1.04	0.79
382	6.09E+03	0.17	0.26	0.93	1.04	0.79
383	6.09E+03	0.17	0.26	0.93	1.04	0.79
384	6.09E+03	0.18	0.26	0.93	1.04	0.79
385	6.09E+03	0.18	0.26	0.93	1.04	0.79
386	6.09E+03	0.18	0.27	0.93	1.04	0.79
387	6.09E+03	0.18	0.27	0.93	1.04	0.79
388	6.10E+03	0.18	0.27	0.93	1.04	0.79
389	6.10E+03	0.18	0.27	0.93	1.04	0.79
390	6.10E+03	0.18	0.27	0.93	1.04	0.79
391	6.10E+03	0.18	0.27	0.93	1.04	0.79
392	6.10E+03	0.18	0.27	0.92	1.04	0.79
393	6.10E+03	0.18	0.27	0.92	1.03	0.79
394	6.10E+03	0.18	0.27	0.92	1.03	0.79
395	6.10E+03	0.18	0.27	0.92	1.03	0.79
396	6.10E+03	0.18	0.27	0.92	1.03	0.79
397	6.10E+03	0.18	0.27	0.92	1.03	0.79
398	6.10E+03	0.18	0.27	0.92	1.03	0.79
399	6.10E+03	0.18	0.27	0.92	1.03	0.79
400	6.10E+03	0.18	0.27	0.92	1.03	0.79
401	6.10E+03	0.18	0.27	0.92	1.03	0.79
402	6.10E+03	0.18	0.27	0.92	1.03	0.79
403	6.11E+03	0.18	0.27	0.92	1.03	0.79
404	6.11E+03	0.18	0.27	0.92	1.02	0.79
405	6.11E+03	0.18	0.27	0.92	1.02	0.79

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
406	6.11E+03	0.18	0.28	0.92	1.02	0.79
407	6.11E+03	0.18	0.28	0.92	1.02	0.79
408	6.11E+03	0.18	0.28	0.92	1.02	0.79
409	6.11E+03	0.18	0.28	0.92	1.02	0.79
410	6.11E+03	0.18	0.28	0.92	1.02	0.79
411	6.11E+03	0.19	0.28	0.92	1.02	0.79
412	6.11E+03	0.19	0.28	0.92	1.02	0.79
413	6.11E+03	0.19	0.28	0.92	1.02	0.79
414	6.11E+03	0.19	0.28	0.91	1.01	0.79
415	6.11E+03	0.19	0.28	0.91	1.01	0.79
416	6.11E+03	0.19	0.28	0.91	1.01	0.79
417	6.12E+03	0.19	0.28	0.91	1.01	0.79
418	6.12E+03	0.19	0.28	0.91	1.01	0.79
419	6.12E+03	0.19	0.28	0.91	1.01	0.79
420	6.12E+03	0.19	0.28	0.91	1.01	0.79
421	6.12E+03	0.19	0.28	0.91	1.01	0.79
422	6.12E+03	0.19	0.28	0.91	1.01	0.79
423	6.12E+03	0.19	0.28	0.91	1.01	0.79
424	6.12E+03	0.19	0.28	0.91	1.01	0.79
425	6.12E+03	0.19	0.28	0.91	1.00	0.79
426	6.12E+03	0.19	0.29	0.91	1.00	0.79
427	6.12E+03	0.19	0.29	0.91	1.00	0.79
428	6.12E+03	0.19	0.29	0.91	1.00	0.79
429	6.13E+03	0.19	0.29	0.91	1.00	0.79
430	6.13E+03	0.19	0.29	0.91	1.00	0.79
431	6.13E+03	0.19	0.29	0.91	1.00	0.79
432	6.13E+03	0.19	0.29	0.91	1.00	0.79
433	6.13E+03	0.19	0.29	0.91	1.00	0.79
434	6.13E+03	0.19	0.29	0.90	1.00	0.79
435	6.13E+03	0.19	0.29	0.90	0.99	0.79
436	6.13E+03	0.19	0.29	0.90	0.99	0.79
437	6.13E+03	0.19	0.29	0.90	0.99	0.79
438	6.13E+03	0.19	0.29	0.90	0.99	0.79
439	6.13E+03	0.20	0.29	0.90	0.99	0.79
440	6.13E+03	0.20	0.29	0.90	0.99	0.79
441	6.13E+03	0.20	0.29	0.90	0.99	0.79
442	6.14E+03	0.20	0.29	0.90	0.99	0.79
443	6.14E+03	0.20	0.29	0.90	0.99	0.79
444	6.14E+03	0.20	0.29	0.90	0.99	0.79
445	6.14E+03	0.20	0.29	0.90	0.98	0.79
446	6.14E+03	0.20	0.30	0.90	0.98	0.79

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
447	6.14E+03	0.20	0.30	0.90	0.98	0.79
448	6.14E+03	0.20	0.30	0.90	0.98	0.79
449	6.14E+03	0.20	0.30	0.90	0.98	0.79
450	6.14E+03	0.20	0.30	0.90	0.98	0.79
451	6.14E+03	0.20	0.30	0.90	0.98	0.79
452	6.14E+03	0.20	0.30	0.90	0.98	0.79
453	6.14E+03	0.20	0.30	0.90	0.98	0.79
454	6.15E+03	0.20	0.30	0.89	0.98	0.79
455	6.15E+03	0.20	0.30	0.89	0.98	0.79
456	6.15E+03	0.20	0.30	0.89	0.97	0.79
457	6.15E+03	0.20	0.30	0.89	0.97	0.79
458	6.15E+03	0.20	0.30	0.89	0.97	0.79
459	6.15E+03	0.20	0.30	0.89	0.97	0.79
460	6.15E+03	0.20	0.30	0.89	0.97	0.79
461	6.15E+03	0.20	0.30	0.89	0.97	0.79
462	6.15E+03	0.20	0.30	0.89	0.97	0.79
463	6.15E+03	0.20	0.30	0.89	0.97	0.79
464	6.15E+03	0.20	0.30	0.89	0.97	0.79
465	6.15E+03	0.20	0.30	0.89	0.97	0.79
466	6.15E+03	0.21	0.31	0.89	0.97	0.79
467	6.16E+03	0.21	0.31	0.89	0.96	0.79
468	6.16E+03	0.21	0.31	0.89	0.96	0.79
469	6.16E+03	0.21	0.31	0.89	0.96	0.79
470	6.16E+03	0.21	0.31	0.89	0.96	0.79
471	6.16E+03	0.21	0.31	0.89	0.96	0.79
472	6.16E+03	0.21	0.31	0.89	0.96	0.79
473	6.16E+03	0.21	0.31	0.89	0.96	0.79
474	6.16E+03	0.21	0.31	0.89	0.96	0.79
475	6.16E+03	0.21	0.31	0.88	0.96	0.79
476	6.16E+03	0.21	0.31	0.88	0.96	0.79
477	6.16E+03	0.21	0.31	0.88	0.96	0.79
478	6.16E+03	0.21	0.31	0.88	0.95	0.79
479	6.16E+03	0.21	0.31	0.88	0.95	0.79
480	6.16E+03	0.21	0.31	0.88	0.95	0.79
481	6.17E+03	0.21	0.31	0.88	0.95	0.79
482	6.17E+03	0.21	0.31	0.88	0.95	0.79
483	6.17E+03	0.21	0.31	0.88	0.95	0.79
484	6.17E+03	0.21	0.31	0.88	0.95	0.79
485	6.17E+03	0.21	0.31	0.88	0.95	0.79
486	6.17E+03	0.21	0.31	0.88	0.95	0.79
487	6.17E+03	0.21	0.32	0.88	0.95	0.79

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
488	6.17E+03	0.21	0.32	0.88	0.95	0.79
489	6.17E+03	0.21	0.32	0.88	0.95	0.79
490	6.17E+03	0.21	0.32	0.88	0.94	0.79
491	6.17E+03	0.21	0.32	0.88	0.94	0.79
492	6.17E+03	0.21	0.32	0.88	0.94	0.79
493	6.17E+03	0.21	0.32	0.88	0.94	0.79
494	6.17E+03	0.21	0.32	0.88	0.94	0.79
495	6.18E+03	0.22	0.32	0.88	0.94	0.79
496	6.18E+03	0.22	0.32	0.87	0.94	0.79
497	6.18E+03	0.22	0.32	0.87	0.94	0.79
498	6.18E+03	0.22	0.32	0.87	0.94	0.79
499	6.18E+03	0.22	0.32	0.87	0.94	0.79
500	6.18E+03	0.22	0.32	0.87	0.94	0.79
501	6.18E+03	0.22	0.32	0.87	0.94	0.79
502	6.18E+03	0.22	0.32	0.87	0.93	0.79
503	6.18E+03	0.22	0.32	0.87	0.93	0.79
504	6.18E+03	0.22	0.32	0.87	0.93	0.79
505	6.18E+03	0.22	0.32	0.87	0.93	0.79
506	6.18E+03	0.22	0.32	0.87	0.93	0.79
507	6.18E+03	0.22	0.32	0.87	0.93	0.79
508	6.18E+03	0.22	0.33	0.87	0.93	0.79
509	6.18E+03	0.22	0.33	0.87	0.93	0.79
510	6.18E+03	0.22	0.33	0.87	0.93	0.79
511	6.19E+03	0.22	0.33	0.87	0.93	0.79
512	6.19E+03	0.22	0.33	0.87	0.93	0.79
513	6.19E+03	0.22	0.33	0.87	0.93	0.79
514	6.19E+03	0.22	0.33	0.87	0.93	0.79
515	6.19E+03	0.22	0.33	0.87	0.92	0.79
516	6.19E+03	0.22	0.33	0.87	0.92	0.79
517	6.19E+03	0.22	0.33	0.87	0.92	0.79
518	6.19E+03	0.22	0.33	0.87	0.92	0.79
519	6.19E+03	0.22	0.33	0.87	0.92	0.79
520	6.19E+03	0.22	0.33	0.86	0.92	0.79
521	6.19E+03	0.22	0.33	0.86	0.92	0.79
522	6.19E+03	0.22	0.33	0.86	0.92	0.79
523	6.19E+03	0.23	0.33	0.86	0.92	0.79
524	6.19E+03	0.23	0.33	0.86	0.92	0.79
525	6.19E+03	0.23	0.33	0.86	0.92	0.79
526	6.19E+03	0.23	0.33	0.86	0.92	0.79
527	6.19E+03	0.23	0.33	0.86	0.92	0.79
528	6.19E+03	0.23	0.33	0.86	0.92	0.79

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
529	6.20E+03	0.23	0.33	0.86	0.91	0.79
530	6.20E+03	0.23	0.34	0.86	0.91	0.79
531	6.20E+03	0.23	0.34	0.86	0.91	0.79
532	6.20E+03	0.23	0.34	0.86	0.91	0.79
533	6.20E+03	0.23	0.34	0.86	0.91	0.79
534	6.20E+03	0.23	0.34	0.86	0.91	0.79
535	6.20E+03	0.23	0.34	0.86	0.91	0.79
536	6.20E+03	0.23	0.34	0.86	0.91	0.79
537	6.20E+03	0.23	0.34	0.86	0.91	0.79
538	6.20E+03	0.23	0.34	0.86	0.91	0.79
539	6.20E+03	0.23	0.34	0.86	0.91	0.79
540	6.20E+03	0.23	0.34	0.86	0.91	0.79
541	6.20E+03	0.23	0.34	0.86	0.91	0.79
542	6.20E+03	0.23	0.34	0.86	0.91	0.79
543	6.20E+03	0.23	0.34	0.86	0.91	0.79
544	6.20E+03	0.23	0.34	0.86	0.90	0.79
545	6.20E+03	0.23	0.34	0.86	0.90	0.79
546	6.20E+03	0.23	0.34	0.85	0.90	0.79
547	6.20E+03	0.23	0.34	0.85	0.90	0.79
548	6.20E+03	0.23	0.34	0.85	0.90	0.79
549	6.20E+03	0.23	0.34	0.85	0.90	0.79
550	6.21E+03	0.23	0.34	0.85	0.90	0.79
551	6.21E+03	0.23	0.34	0.85	0.90	0.79
552	6.21E+03	0.24	0.35	0.85	0.90	0.79
553	6.21E+03	0.24	0.35	0.85	0.90	0.79
554	6.21E+03	0.24	0.35	0.85	0.90	0.79
555	6.21E+03	0.24	0.35	0.85	0.90	0.79
556	6.21E+03	0.24	0.35	0.85	0.90	0.79
557	6.21E+03	0.24	0.35	0.85	0.90	0.79
558	6.21E+03	0.24	0.35	0.85	0.90	0.79
559	6.21E+03	0.24	0.35	0.85	0.90	0.79
560	6.21E+03	0.24	0.35	0.85	0.90	0.79
561	6.21E+03	0.24	0.35	0.85	0.89	0.79
562	6.21E+03	0.24	0.35	0.85	0.89	0.79
563	6.21E+03	0.24	0.35	0.85	0.89	0.79
564	6.21E+03	0.24	0.35	0.85	0.89	0.79
565	6.21E+03	0.24	0.35	0.85	0.89	0.79
566	6.21E+03	0.24	0.35	0.85	0.89	0.79
567	6.21E+03	0.24	0.35	0.85	0.89	0.79
568	6.21E+03	0.24	0.35	0.85	0.89	0.79
569	6.21E+03	0.24	0.35	0.85	0.89	0.79

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
570	6.21E+03	0.24	0.35	0.85	0.89	0.79
571	6.21E+03	0.24	0.35	0.85	0.89	0.79
572	6.21E+03	0.24	0.35	0.85	0.89	0.79
573	6.21E+03	0.24	0.35	0.85	0.89	0.79
574	6.21E+03	0.24	0.35	0.85	0.89	0.79
575	6.22E+03	0.24	0.36	0.84	0.89	0.79
576	6.22E+03	0.24	0.36	0.84	0.89	0.79
577	6.22E+03	0.24	0.36	0.84	0.89	0.79
578	6.22E+03	0.24	0.36	0.84	0.89	0.79
579	6.22E+03	0.24	0.36	0.84	0.88	0.79
580	6.22E+03	0.24	0.36	0.84	0.88	0.79
581	6.22E+03	0.24	0.36	0.84	0.88	0.79
582	6.22E+03	0.25	0.36	0.84	0.88	0.79
583	6.22E+03	0.25	0.36	0.84	0.88	0.79
584	6.22E+03	0.25	0.36	0.84	0.88	0.79
585	6.22E+03	0.25	0.36	0.84	0.88	0.79
586	6.22E+03	0.25	0.36	0.84	0.88	0.79
587	6.22E+03	0.25	0.36	0.84	0.88	0.78
588	6.22E+03	0.25	0.36	0.84	0.88	0.78
589	6.22E+03	0.25	0.36	0.84	0.88	0.78
590	6.22E+03	0.25	0.36	0.84	0.88	0.78
591	6.22E+03	0.25	0.36	0.84	0.88	0.78
592	6.22E+03	0.25	0.36	0.84	0.88	0.78
593	6.22E+03	0.25	0.36	0.84	0.88	0.78
594	6.22E+03	0.25	0.36	0.84	0.88	0.78
595	6.22E+03	0.25	0.36	0.84	0.88	0.78
596	6.22E+03	0.25	0.36	0.84	0.88	0.78
597	6.22E+03	0.25	0.36	0.84	0.88	0.78
598	6.22E+03	0.25	0.37	0.84	0.88	0.78
599	6.22E+03	0.25	0.37	0.84	0.87	0.78
600	6.22E+03	0.25	0.37	0.84	0.87	0.78
601	6.22E+03	0.25	0.37	0.84	0.87	0.78
602	6.22E+03	0.25	0.37	0.84	0.87	0.78
603	6.22E+03	0.25	0.37	0.84	0.87	0.78
604	6.22E+03	0.25	0.37	0.84	0.87	0.78
605	6.22E+03	0.25	0.37	0.84	0.87	0.78
606	6.22E+03	0.25	0.37	0.84	0.87	0.78
607	6.22E+03	0.25	0.37	0.84	0.87	0.78
608	6.22E+03	0.25	0.37	0.83	0.87	0.78
609	6.22E+03	0.25	0.37	0.83	0.87	0.78
610	6.23E+03	0.25	0.37	0.83	0.87	0.78

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
611	6.23E+03	0.25	0.37	0.83	0.87	0.78
612	6.23E+03	0.26	0.37	0.83	0.87	0.78
613	6.23E+03	0.26	0.37	0.83	0.87	0.78
614	6.23E+03	0.26	0.37	0.83	0.87	0.78
615	6.23E+03	0.26	0.37	0.83	0.87	0.78
616	6.23E+03	0.26	0.37	0.83	0.87	0.78
617	6.23E+03	0.26	0.37	0.83	0.87	0.78
618	6.23E+03	0.26	0.37	0.83	0.87	0.78
619	6.23E+03	0.26	0.37	0.83	0.87	0.78
620	6.23E+03	0.26	0.37	0.83	0.87	0.78
621	6.23E+03	0.26	0.37	0.83	0.87	0.78
622	6.23E+03	0.26	0.38	0.83	0.86	0.78
623	6.23E+03	0.26	0.38	0.83	0.86	0.78
624	6.23E+03	0.26	0.38	0.83	0.86	0.78
625	6.23E+03	0.26	0.38	0.83	0.86	0.78
626	6.23E+03	0.26	0.38	0.83	0.86	0.78
627	6.23E+03	0.26	0.38	0.83	0.86	0.78
628	6.23E+03	0.26	0.38	0.83	0.86	0.78
629	6.23E+03	0.26	0.38	0.83	0.86	0.78
630	6.23E+03	0.26	0.38	0.83	0.86	0.78
631	6.23E+03	0.26	0.38	0.83	0.86	0.78
632	6.23E+03	0.26	0.38	0.83	0.86	0.78
633	6.23E+03	0.26	0.38	0.83	0.86	0.78
634	6.23E+03	0.26	0.38	0.83	0.86	0.78
635	6.23E+03	0.26	0.38	0.83	0.86	0.78
636	6.23E+03	0.26	0.38	0.83	0.86	0.78
637	6.23E+03	0.26	0.38	0.83	0.86	0.78
638	6.23E+03	0.26	0.38	0.83	0.86	0.78
639	6.23E+03	0.26	0.38	0.83	0.86	0.78
640	6.23E+03	0.26	0.38	0.83	0.86	0.78
641	6.23E+03	0.26	0.38	0.83	0.86	0.78
642	6.23E+03	0.26	0.38	0.83	0.86	0.78
643	6.23E+03	0.27	0.38	0.83	0.86	0.78
644	6.23E+03	0.27	0.38	0.83	0.86	0.78
645	6.23E+03	0.27	0.38	0.83	0.86	0.78
646	6.23E+03	0.27	0.39	0.82	0.86	0.78
647	6.23E+03	0.27	0.39	0.82	0.85	0.78
648	6.23E+03	0.27	0.39	0.82	0.85	0.78
649	6.23E+03	0.27	0.39	0.82	0.85	0.78
650	6.23E+03	0.27	0.39	0.82	0.85	0.78
651	6.23E+03	0.27	0.39	0.82	0.85	0.78

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
652	6.23E+03	0.27	0.39	0.82	0.85	0.78
653	6.23E+03	0.27	0.39	0.82	0.85	0.78
654	6.23E+03	0.27	0.39	0.82	0.85	0.78
655	6.23E+03	0.27	0.39	0.82	0.85	0.78
656	6.23E+03	0.27	0.39	0.82	0.85	0.78
657	6.23E+03	0.27	0.39	0.82	0.85	0.78
658	6.23E+03	0.27	0.39	0.82	0.85	0.78
659	6.23E+03	0.27	0.39	0.82	0.85	0.78
660	6.23E+03	0.27	0.39	0.82	0.85	0.78
661	6.23E+03	0.27	0.39	0.82	0.85	0.78
662	6.23E+03	0.27	0.39	0.82	0.85	0.78
663	6.23E+03	0.27	0.39	0.82	0.85	0.78
664	6.23E+03	0.27	0.39	0.82	0.85	0.78
665	6.23E+03	0.27	0.39	0.82	0.85	0.78
666	6.23E+03	0.27	0.39	0.82	0.85	0.78
667	6.23E+03	0.27	0.39	0.82	0.85	0.78
668	6.24E+03	0.27	0.39	0.82	0.85	0.78
669	6.24E+03	0.27	0.39	0.82	0.85	0.78
670	6.24E+03	0.27	0.40	0.82	0.85	0.78
671	6.24E+03	0.27	0.40	0.82	0.85	0.78
672	6.24E+03	0.27	0.40	0.82	0.85	0.78
673	6.24E+03	0.27	0.40	0.82	0.85	0.78
674	6.24E+03	0.28	0.40	0.82	0.85	0.78
675	6.24E+03	0.28	0.40	0.82	0.85	0.78
676	6.24E+03	0.28	0.40	0.82	0.84	0.78
677	6.24E+03	0.28	0.40	0.82	0.84	0.78
678	6.24E+03	0.28	0.40	0.82	0.84	0.78
679	6.24E+03	0.28	0.40	0.82	0.84	0.78
680	6.24E+03	0.28	0.40	0.82	0.84	0.78
681	6.24E+03	0.28	0.40	0.82	0.84	0.78
682	6.24E+03	0.28	0.40	0.82	0.84	0.78
683	6.24E+03	0.28	0.40	0.82	0.84	0.78
684	6.24E+03	0.28	0.40	0.82	0.84	0.78
685	6.24E+03	0.28	0.40	0.82	0.84	0.78
686	6.24E+03	0.28	0.40	0.82	0.84	0.78
687	6.24E+03	0.28	0.40	0.82	0.84	0.78
688	6.24E+03	0.28	0.40	0.82	0.84	0.78
689	6.24E+03	0.28	0.40	0.82	0.84	0.78
690	6.24E+03	0.28	0.40	0.81	0.84	0.78
691	6.24E+03	0.28	0.40	0.81	0.84	0.78
692	6.24E+03	0.28	0.40	0.81	0.84	0.78

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
693	6.24E+03	0.28	0.40	0.81	0.84	0.78
694	6.24E+03	0.28	0.41	0.81	0.84	0.78
695	6.24E+03	0.28	0.41	0.81	0.84	0.78
696	6.24E+03	0.28	0.41	0.81	0.84	0.78
697	6.24E+03	0.28	0.41	0.81	0.84	0.78
698	6.24E+03	0.28	0.41	0.81	0.84	0.78
699	6.24E+03	0.28	0.41	0.81	0.84	0.78
700	6.24E+03	0.28	0.41	0.81	0.84	0.78
701	6.24E+03	0.28	0.41	0.81	0.84	0.78
702	6.24E+03	0.28	0.41	0.81	0.84	0.78
703	6.24E+03	0.28	0.41	0.81	0.84	0.78
704	6.24E+03	0.28	0.41	0.81	0.84	0.78
705	6.24E+03	0.28	0.41	0.81	0.84	0.78
706	6.24E+03	0.29	0.41	0.81	0.84	0.78
707	6.24E+03	0.29	0.41	0.81	0.84	0.78
708	6.24E+03	0.29	0.41	0.81	0.83	0.78
709	6.24E+03	0.29	0.41	0.81	0.83	0.78
710	6.24E+03	0.29	0.41	0.81	0.83	0.78
711	6.24E+03	0.29	0.41	0.81	0.83	0.78
712	6.24E+03	0.29	0.41	0.81	0.83	0.78
713	6.24E+03	0.29	0.41	0.81	0.83	0.78
714	6.24E+03	0.29	0.41	0.81	0.83	0.78
715	6.24E+03	0.29	0.41	0.81	0.83	0.78
716	6.24E+03	0.29	0.41	0.81	0.83	0.78
717	6.24E+03	0.29	0.41	0.81	0.83	0.77
718	6.24E+03	0.29	0.42	0.81	0.83	0.77
719	6.24E+03	0.29	0.42	0.81	0.83	0.77
720	6.24E+03	0.29	0.42	0.81	0.83	0.77
721	6.24E+03	0.29	0.42	0.81	0.83	0.77
722	6.24E+03	0.29	0.42	0.81	0.83	0.77
723	6.24E+03	0.29	0.42	0.81	0.83	0.77
724	6.24E+03	0.29	0.42	0.81	0.83	0.77
725	6.24E+03	0.29	0.42	0.81	0.83	0.77
726	6.24E+03	0.29	0.42	0.81	0.83	0.77
727	6.24E+03	0.29	0.42	0.81	0.83	0.77
728	6.24E+03	0.29	0.42	0.81	0.83	0.77
729	6.24E+03	0.29	0.42	0.81	0.83	0.77
730	6.24E+03	0.29	0.42	0.81	0.83	0.77
731	6.24E+03	0.29	0.42	0.81	0.83	0.77
732	6.24E+03	0.29	0.42	0.81	0.83	0.77
733	6.24E+03	0.29	0.42	0.81	0.83	0.77

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
734	6.24E+03	0.29	0.42	0.81	0.83	0.77
735	6.24E+03	0.29	0.42	0.81	0.83	0.77
736	6.24E+03	0.29	0.42	0.81	0.83	0.77
737	6.24E+03	0.29	0.42	0.81	0.83	0.77
738	6.24E+03	0.29	0.42	0.81	0.83	0.77
739	6.24E+03	0.30	0.42	0.81	0.83	0.77
740	6.24E+03	0.30	0.42	0.81	0.83	0.77
741	6.24E+03	0.30	0.42	0.80	0.83	0.77
742	6.24E+03	0.30	0.42	0.80	0.83	0.77
743	6.24E+03	0.30	0.42	0.80	0.83	0.77
744	6.24E+03	0.30	0.43	0.80	0.83	0.77
745	6.24E+03	0.30	0.43	0.80	0.83	0.77
746	6.24E+03	0.30	0.43	0.80	0.82	0.77
747	6.24E+03	0.30	0.43	0.80	0.82	0.77
748	6.24E+03	0.30	0.43	0.80	0.82	0.77
749	6.24E+03	0.30	0.43	0.80	0.82	0.77
750	6.24E+03	0.30	0.43	0.80	0.82	0.77
751	6.24E+03	0.30	0.43	0.80	0.82	0.77
752	6.24E+03	0.30	0.43	0.80	0.82	0.77
753	6.24E+03	0.30	0.43	0.80	0.82	0.77
754	6.24E+03	0.30	0.43	0.80	0.82	0.77
755	6.24E+03	0.30	0.43	0.80	0.82	0.77
756	6.24E+03	0.30	0.43	0.80	0.82	0.77
757	6.24E+03	0.30	0.43	0.80	0.82	0.77
758	6.24E+03	0.30	0.43	0.80	0.82	0.77
759	6.24E+03	0.30	0.43	0.80	0.82	0.77
760	6.24E+03	0.30	0.43	0.80	0.82	0.77
761	6.24E+03	0.30	0.43	0.80	0.82	0.77
762	6.24E+03	0.30	0.43	0.80	0.82	0.77
763	6.24E+03	0.30	0.43	0.80	0.82	0.77
764	6.24E+03	0.30	0.43	0.80	0.82	0.77
765	6.24E+03	0.30	0.43	0.80	0.82	0.77
766	6.24E+03	0.30	0.43	0.80	0.82	0.77
767	6.24E+03	0.30	0.43	0.80	0.82	0.77
768	6.24E+03	0.30	0.43	0.80	0.82	0.77
769	6.24E+03	0.30	0.44	0.80	0.82	0.77
770	6.24E+03	0.30	0.44	0.80	0.82	0.77
771	6.24E+03	0.30	0.44	0.80	0.82	0.77
772	6.24E+03	0.30	0.44	0.80	0.82	0.77
773	6.24E+03	0.31	0.44	0.80	0.82	0.77
774	6.24E+03	0.31	0.44	0.80	0.82	0.77

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
775	6.24E+03	0.31	0.44	0.80	0.82	0.77
776	6.24E+03	0.31	0.44	0.80	0.82	0.77
777	6.24E+03	0.31	0.44	0.80	0.82	0.77
778	6.24E+03	0.31	0.44	0.80	0.82	0.77
779	6.24E+03	0.31	0.44	0.80	0.82	0.77
780	6.24E+03	0.31	0.44	0.80	0.82	0.77
781	6.24E+03	0.31	0.44	0.80	0.82	0.77
782	6.24E+03	0.31	0.44	0.80	0.82	0.77
783	6.24E+03	0.31	0.44	0.80	0.82	0.77
784	6.24E+03	0.31	0.44	0.80	0.82	0.77
785	6.24E+03	0.31	0.44	0.80	0.82	0.77
786	6.24E+03	0.31	0.44	0.80	0.82	0.77
787	6.24E+03	0.31	0.44	0.80	0.82	0.77
788	6.24E+03	0.31	0.44	0.80	0.81	0.77
789	6.24E+03	0.31	0.44	0.80	0.81	0.77
790	6.24E+03	0.31	0.44	0.80	0.81	0.77
791	6.24E+03	0.31	0.44	0.80	0.81	0.77
792	6.24E+03	0.31	0.44	0.80	0.81	0.77
793	6.24E+03	0.31	0.44	0.80	0.81	0.77
794	6.24E+03	0.31	0.44	0.80	0.81	0.77
795	6.24E+03	0.31	0.44	0.80	0.81	0.77
796	6.24E+03	0.31	0.45	0.80	0.81	0.77
797	6.24E+03	0.31	0.45	0.80	0.81	0.77
798	6.24E+03	0.31	0.45	0.80	0.81	0.77
799	6.24E+03	0.31	0.45	0.80	0.81	0.77
800	6.24E+03	0.31	0.45	0.80	0.81	0.77
801	6.24E+03	0.31	0.45	0.79	0.81	0.77
802	6.24E+03	0.31	0.45	0.79	0.81	0.77
803	6.24E+03	0.31	0.45	0.79	0.81	0.77
804	6.24E+03	0.31	0.45	0.79	0.81	0.77
805	6.24E+03	0.31	0.45	0.79	0.81	0.77
806	6.24E+03	0.31	0.45	0.79	0.81	0.77
807	6.24E+03	0.32	0.45	0.79	0.81	0.77
808	6.24E+03	0.32	0.45	0.79	0.81	0.77
809	6.24E+03	0.32	0.45	0.79	0.81	0.77
810	6.24E+03	0.32	0.45	0.79	0.81	0.77
811	6.24E+03	0.32	0.45	0.79	0.81	0.77
812	6.24E+03	0.32	0.45	0.79	0.81	0.77
813	6.24E+03	0.32	0.45	0.79	0.81	0.77
814	6.24E+03	0.32	0.45	0.79	0.81	0.77
815	6.24E+03	0.32	0.45	0.79	0.81	0.77

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
816	6.24E+03	0.32	0.45	0.79	0.81	0.77
817	6.24E+03	0.32	0.45	0.79	0.81	0.77
818	6.24E+03	0.32	0.45	0.79	0.81	0.77
819	6.24E+03	0.32	0.45	0.79	0.81	0.77
820	6.24E+03	0.32	0.45	0.79	0.81	0.77
821	6.24E+03	0.32	0.45	0.79	0.81	0.77
822	6.24E+03	0.32	0.45	0.79	0.81	0.77
823	6.24E+03	0.32	0.46	0.79	0.81	0.77
824	6.24E+03	0.32	0.46	0.79	0.81	0.77
825	6.24E+03	0.32	0.46	0.79	0.81	0.77
826	6.24E+03	0.32	0.46	0.79	0.81	0.77
827	6.24E+03	0.32	0.46	0.79	0.81	0.77
828	6.24E+03	0.32	0.46	0.79	0.81	0.77
829	6.24E+03	0.32	0.46	0.79	0.81	0.77
830	6.24E+03	0.32	0.46	0.79	0.81	0.77
831	6.24E+03	0.32	0.46	0.79	0.81	0.77
832	6.24E+03	0.32	0.46	0.79	0.81	0.77
833	6.24E+03	0.32	0.46	0.79	0.81	0.77
834	6.24E+03	0.32	0.46	0.79	0.81	0.77
835	6.24E+03	0.32	0.46	0.79	0.81	0.77
836	6.24E+03	0.32	0.46	0.79	0.81	0.77
837	6.24E+03	0.32	0.46	0.79	0.80	0.77
838	6.24E+03	0.32	0.46	0.79	0.80	0.77
839	6.24E+03	0.32	0.46	0.79	0.80	0.77
840	6.24E+03	0.32	0.46	0.79	0.80	0.77
841	6.24E+03	0.33	0.46	0.79	0.80	0.77
842	6.24E+03	0.33	0.46	0.79	0.80	0.77
843	6.24E+03	0.33	0.46	0.79	0.80	0.77
844	6.24E+03	0.33	0.46	0.79	0.80	0.77
845	6.24E+03	0.33	0.46	0.79	0.80	0.76
846	6.24E+03	0.33	0.46	0.79	0.80	0.76
847	6.24E+03	0.33	0.46	0.79	0.80	0.76
848	6.24E+03	0.33	0.46	0.79	0.80	0.76
849	6.24E+03	0.33	0.46	0.79	0.80	0.76
850	6.24E+03	0.33	0.46	0.79	0.80	0.76
851	6.24E+03	0.33	0.47	0.79	0.80	0.76
852	6.24E+03	0.33	0.47	0.79	0.80	0.76
853	6.24E+03	0.33	0.47	0.79	0.80	0.76
854	6.24E+03	0.33	0.47	0.79	0.80	0.76
855	6.24E+03	0.33	0.47	0.79	0.80	0.76
856	6.24E+03	0.33	0.47	0.79	0.80	0.76

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
857	6.24E+03	0.33	0.47	0.79	0.80	0.76
858	6.24E+03	0.33	0.47	0.79	0.80	0.76
859	6.24E+03	0.33	0.47	0.79	0.80	0.76
860	6.24E+03	0.33	0.47	0.79	0.80	0.76
861	6.24E+03	0.33	0.47	0.79	0.80	0.76
862	6.24E+03	0.33	0.47	0.79	0.80	0.76
863	6.24E+03	0.33	0.47	0.79	0.80	0.76
864	6.24E+03	0.33	0.47	0.79	0.80	0.76
865	6.24E+03	0.33	0.47	0.79	0.80	0.76
866	6.24E+03	0.33	0.47	0.79	0.80	0.76
867	6.24E+03	0.33	0.47	0.79	0.80	0.76
868	6.24E+03	0.33	0.47	0.79	0.80	0.76
869	6.24E+03	0.33	0.47	0.78	0.80	0.76
870	6.24E+03	0.33	0.47	0.78	0.80	0.76
871	6.24E+03	0.33	0.47	0.78	0.80	0.76
872	6.24E+03	0.33	0.47	0.78	0.80	0.76
873	6.24E+03	0.33	0.47	0.78	0.80	0.76
874	6.24E+03	0.34	0.47	0.78	0.80	0.76
875	6.24E+03	0.34	0.47	0.78	0.80	0.76
876	6.24E+03	0.34	0.47	0.78	0.80	0.76
877	6.24E+03	0.34	0.47	0.78	0.80	0.76
878	6.24E+03	0.34	0.47	0.78	0.80	0.76
879	6.24E+03	0.34	0.48	0.78	0.80	0.76
880	6.24E+03	0.34	0.48	0.78	0.80	0.76
881	6.24E+03	0.34	0.48	0.78	0.80	0.76
882	6.24E+03	0.34	0.48	0.78	0.80	0.76
883	6.24E+03	0.34	0.48	0.78	0.80	0.76
884	6.24E+03	0.34	0.48	0.78	0.80	0.76
885	6.24E+03	0.34	0.48	0.78	0.80	0.76
886	6.24E+03	0.34	0.48	0.78	0.80	0.76
887	6.24E+03	0.34	0.48	0.78	0.80	0.76
888	6.24E+03	0.34	0.48	0.78	0.80	0.76
889	6.24E+03	0.34	0.48	0.78	0.80	0.76
890	6.24E+03	0.34	0.48	0.78	0.80	0.76
891	6.24E+03	0.34	0.48	0.78	0.80	0.76
892	6.24E+03	0.34	0.48	0.78	0.80	0.76
893	6.24E+03	0.34	0.48	0.78	0.79	0.76
894	6.24E+03	0.34	0.48	0.78	0.79	0.76
895	6.24E+03	0.34	0.48	0.78	0.79	0.76
896	6.24E+03	0.34	0.48	0.78	0.79	0.76
897	6.24E+03	0.34	0.48	0.78	0.79	0.76

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
898	6.24E+03	0.34	0.48	0.78	0.79	0.76
899	6.24E+03	0.34	0.48	0.78	0.79	0.76
900	6.24E+03	0.34	0.48	0.78	0.79	0.76
901	6.24E+03	0.34	0.48	0.78	0.79	0.76
902	6.24E+03	0.34	0.48	0.78	0.79	0.76
903	6.24E+03	0.34	0.48	0.78	0.79	0.76
904	6.24E+03	0.34	0.48	0.78	0.79	0.76
905	6.24E+03	0.34	0.48	0.78	0.79	0.76
906	6.24E+03	0.34	0.48	0.78	0.79	0.76
907	6.24E+03	0.34	0.48	0.78	0.79	0.76
908	6.24E+03	0.34	0.48	0.78	0.79	0.76
909	6.24E+03	0.35	0.49	0.78	0.79	0.76
910	6.24E+03	0.35	0.49	0.78	0.79	0.76
911	6.24E+03	0.35	0.49	0.78	0.79	0.76
912	6.24E+03	0.35	0.49	0.78	0.79	0.76
913	6.24E+03	0.35	0.49	0.78	0.79	0.76
914	6.24E+03	0.35	0.49	0.78	0.79	0.76
915	6.24E+03	0.35	0.49	0.78	0.79	0.76
916	6.24E+03	0.35	0.49	0.78	0.79	0.76
917	6.24E+03	0.35	0.49	0.78	0.79	0.76
918	6.24E+03	0.35	0.49	0.78	0.79	0.76
919	6.24E+03	0.35	0.49	0.78	0.79	0.76
920	6.24E+03	0.35	0.49	0.78	0.79	0.76
921	6.24E+03	0.35	0.49	0.78	0.79	0.76
922	6.24E+03	0.35	0.49	0.78	0.79	0.76
923	6.24E+03	0.35	0.49	0.78	0.79	0.76
924	6.24E+03	0.35	0.49	0.78	0.79	0.76
925	6.24E+03	0.35	0.49	0.78	0.79	0.76
926	6.24E+03	0.35	0.49	0.78	0.79	0.76
927	6.24E+03	0.35	0.49	0.78	0.79	0.76
928	6.24E+03	0.35	0.49	0.78	0.79	0.76
929	6.24E+03	0.35	0.49	0.78	0.79	0.76
930	6.24E+03	0.35	0.49	0.78	0.79	0.76
931	6.24E+03	0.35	0.49	0.78	0.79	0.76
932	6.24E+03	0.35	0.49	0.78	0.79	0.76
933	6.23E+03	0.35	0.49	0.78	0.79	0.76
934	6.23E+03	0.35	0.49	0.78	0.79	0.76
935	6.23E+03	0.35	0.49	0.78	0.79	0.76
936	6.23E+03	0.35	0.49	0.78	0.79	0.76
937	6.23E+03	0.35	0.49	0.78	0.79	0.76
938	6.23E+03	0.35	0.49	0.78	0.79	0.76

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
939	6.23E+03	0.35	0.50	0.78	0.79	0.76
940	6.23E+03	0.35	0.50	0.78	0.79	0.76
941	6.23E+03	0.35	0.50	0.78	0.79	0.76
942	6.23E+03	0.35	0.50	0.78	0.79	0.76
943	6.23E+03	0.35	0.50	0.78	0.79	0.76
944	6.23E+03	0.36	0.50	0.78	0.79	0.76
945	6.23E+03	0.36	0.50	0.78	0.79	0.76
946	6.23E+03	0.36	0.50	0.78	0.79	0.76
947	6.23E+03	0.36	0.50	0.77	0.79	0.76
948	6.23E+03	0.36	0.50	0.77	0.79	0.76
949	6.23E+03	0.36	0.50	0.77	0.79	0.76
950	6.23E+03	0.36	0.50	0.77	0.79	0.76
951	6.23E+03	0.36	0.50	0.77	0.79	0.76
952	6.23E+03	0.36	0.50	0.77	0.79	0.76
953	6.23E+03	0.36	0.50	0.77	0.79	0.76
954	6.23E+03	0.36	0.50	0.77	0.79	0.76
955	6.23E+03	0.36	0.50	0.77	0.79	0.76
956	6.23E+03	0.36	0.50	0.77	0.78	0.76
957	6.23E+03	0.36	0.50	0.77	0.78	0.76
958	6.23E+03	0.36	0.50	0.77	0.78	0.76
959	6.23E+03	0.36	0.50	0.77	0.78	0.76
960	6.23E+03	0.36	0.50	0.77	0.78	0.76
961	6.23E+03	0.36	0.50	0.77	0.78	0.76
962	6.23E+03	0.36	0.50	0.77	0.78	0.76
963	6.23E+03	0.36	0.50	0.77	0.78	0.76
964	6.23E+03	0.36	0.50	0.77	0.78	0.76
965	6.23E+03	0.36	0.50	0.77	0.78	0.76
966	6.23E+03	0.36	0.50	0.77	0.78	0.76
967	6.23E+03	0.36	0.50	0.77	0.78	0.76
968	6.23E+03	0.36	0.50	0.77	0.78	0.76
969	6.23E+03	0.36	0.50	0.77	0.78	0.76
970	6.23E+03	0.36	0.51	0.77	0.78	0.76
971	6.23E+03	0.36	0.51	0.77	0.78	0.76
972	6.23E+03	0.36	0.51	0.77	0.78	0.76
973	6.23E+03	0.36	0.51	0.77	0.78	0.76
974	6.23E+03	0.36	0.51	0.77	0.78	0.76
975	6.23E+03	0.36	0.51	0.77	0.78	0.76
976	6.23E+03	0.36	0.51	0.77	0.78	0.76
977	6.23E+03	0.36	0.51	0.77	0.78	0.76
978	6.23E+03	0.36	0.51	0.77	0.78	0.75
979	6.23E+03	0.36	0.51	0.77	0.78	0.75

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
980	6.23E+03	0.37	0.51	0.77	0.78	0.75
981	6.23E+03	0.37	0.51	0.77	0.78	0.75
982	6.23E+03	0.37	0.51	0.77	0.78	0.75
983	6.23E+03	0.37	0.51	0.77	0.78	0.75
984	6.23E+03	0.37	0.51	0.77	0.78	0.75
985	6.23E+03	0.37	0.51	0.77	0.78	0.75
986	6.23E+03	0.37	0.51	0.77	0.78	0.75
987	6.23E+03	0.37	0.51	0.77	0.78	0.75
988	6.23E+03	0.37	0.51	0.77	0.78	0.75
989	6.23E+03	0.37	0.51	0.77	0.78	0.75
990	6.23E+03	0.37	0.51	0.77	0.78	0.75
991	6.23E+03	0.37	0.51	0.77	0.78	0.75
992	6.23E+03	0.37	0.51	0.77	0.78	0.75
993	6.23E+03	0.37	0.51	0.77	0.78	0.75
994	6.23E+03	0.37	0.51	0.77	0.78	0.75
995	6.23E+03	0.37	0.51	0.77	0.78	0.75
996	6.23E+03	0.37	0.51	0.77	0.78	0.75
997	6.23E+03	0.37	0.51	0.77	0.78	0.75
998	6.23E+03	0.37	0.51	0.77	0.78	0.75
999	6.23E+03	0.37	0.51	0.77	0.78	0.75
1000	6.23E+03	0.37	0.51	0.77	0.78	0.75
1001	6.23E+03	0.37	0.51	0.77	0.78	0.75
1002	6.23E+03	0.37	0.52	0.77	0.78	0.75
1003	6.23E+03	0.37	0.52	0.77	0.78	0.75
1004	6.23E+03	0.37	0.52	0.77	0.78	0.75
1005	6.23E+03	0.37	0.52	0.77	0.78	0.75
1006	6.23E+03	0.37	0.52	0.77	0.78	0.75
1007	6.23E+03	0.37	0.52	0.77	0.78	0.75
1008	6.23E+03	0.37	0.52	0.77	0.78	0.75
1009	6.23E+03	0.37	0.52	0.77	0.78	0.75
1010	6.23E+03	0.37	0.52	0.77	0.78	0.75
1011	6.23E+03	0.37	0.52	0.77	0.78	0.75
1012	6.23E+03	0.37	0.52	0.77	0.78	0.75
1013	6.23E+03	0.37	0.52	0.77	0.78	0.75
1014	6.23E+03	0.37	0.52	0.77	0.78	0.75
1015	6.23E+03	0.37	0.52	0.77	0.78	0.75
1016	6.23E+03	0.38	0.52	0.77	0.78	0.75
1017	6.23E+03	0.38	0.52	0.77	0.78	0.75
1018	6.23E+03	0.38	0.52	0.77	0.78	0.75
1019	6.23E+03	0.38	0.52	0.77	0.78	0.75
1020	6.23E+03	0.38	0.52	0.77	0.78	0.75

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1021	6.23E+03	0.38	0.52	0.77	0.78	0.75
1022	6.23E+03	0.38	0.52	0.77	0.78	0.75
1023	6.23E+03	0.38	0.52	0.77	0.78	0.75
1024	6.23E+03	0.38	0.52	0.77	0.78	0.75
1025	6.23E+03	0.38	0.52	0.77	0.78	0.75
1026	6.23E+03	0.38	0.52	0.77	0.78	0.75
1027	6.23E+03	0.38	0.52	0.77	0.78	0.75
1028	6.23E+03	0.38	0.52	0.77	0.78	0.75
1029	6.23E+03	0.38	0.52	0.77	0.77	0.75
1030	6.23E+03	0.38	0.52	0.77	0.77	0.75
1031	6.23E+03	0.38	0.52	0.77	0.77	0.75
1032	6.23E+03	0.38	0.52	0.77	0.77	0.75
1033	6.23E+03	0.38	0.52	0.77	0.77	0.75
1034	6.23E+03	0.38	0.52	0.77	0.77	0.75
1035	6.23E+03	0.38	0.52	0.77	0.77	0.75
1036	6.23E+03	0.38	0.53	0.77	0.77	0.75
1037	6.23E+03	0.38	0.53	0.76	0.77	0.75
1038	6.23E+03	0.38	0.53	0.76	0.77	0.75
1039	6.23E+03	0.38	0.53	0.76	0.77	0.75
1040	6.23E+03	0.38	0.53	0.76	0.77	0.75
1041	6.23E+03	0.38	0.53	0.76	0.77	0.75
1042	6.23E+03	0.38	0.53	0.76	0.77	0.75
1043	6.23E+03	0.38	0.53	0.76	0.77	0.75
1044	6.23E+03	0.38	0.53	0.76	0.77	0.75
1045	6.23E+03	0.38	0.53	0.76	0.77	0.75
1046	6.23E+03	0.38	0.53	0.76	0.77	0.75
1047	6.23E+03	0.38	0.53	0.76	0.77	0.75
1048	6.23E+03	0.38	0.53	0.76	0.77	0.75
1049	6.23E+03	0.38	0.53	0.76	0.77	0.75
1050	6.23E+03	0.38	0.53	0.76	0.77	0.75
1051	6.23E+03	0.38	0.53	0.76	0.77	0.75
1052	6.23E+03	0.38	0.53	0.76	0.77	0.75
1053	6.23E+03	0.38	0.53	0.76	0.77	0.75
1054	6.23E+03	0.39	0.53	0.76	0.77	0.75
1055	6.23E+03	0.39	0.53	0.76	0.77	0.75
1056	6.22E+03	0.39	0.53	0.76	0.77	0.75
1057	6.22E+03	0.39	0.53	0.76	0.77	0.75
1058	6.22E+03	0.39	0.53	0.76	0.77	0.75
1059	6.22E+03	0.39	0.53	0.76	0.77	0.75
1060	6.22E+03	0.39	0.53	0.76	0.77	0.75
1061	6.22E+03	0.39	0.53	0.76	0.77	0.75

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1062	6.22E+03	0.39	0.53	0.76	0.77	0.75
1063	6.22E+03	0.39	0.53	0.76	0.77	0.75
1064	6.22E+03	0.39	0.53	0.76	0.77	0.75
1065	6.22E+03	0.39	0.53	0.76	0.77	0.75
1066	6.22E+03	0.39	0.53	0.76	0.77	0.75
1067	6.22E+03	0.39	0.53	0.76	0.77	0.75
1068	6.22E+03	0.39	0.53	0.76	0.77	0.75
1069	6.22E+03	0.39	0.53	0.76	0.77	0.75
1070	6.22E+03	0.39	0.53	0.76	0.77	0.75
1071	6.22E+03	0.39	0.54	0.76	0.77	0.75
1072	6.22E+03	0.39	0.54	0.76	0.77	0.75
1073	6.22E+03	0.39	0.54	0.76	0.77	0.75
1074	6.22E+03	0.39	0.54	0.76	0.77	0.75
1075	6.22E+03	0.39	0.54	0.76	0.77	0.75
1076	6.22E+03	0.39	0.54	0.76	0.77	0.75
1077	6.22E+03	0.39	0.54	0.76	0.77	0.75
1078	6.22E+03	0.39	0.54	0.76	0.77	0.75
1079	6.22E+03	0.39	0.54	0.76	0.77	0.75
1080	6.22E+03	0.39	0.54	0.76	0.77	0.75
1081	6.22E+03	0.39	0.54	0.76	0.77	0.75
1082	6.22E+03	0.39	0.54	0.76	0.77	0.75
1083	6.22E+03	0.39	0.54	0.76	0.77	0.75
1084	6.22E+03	0.39	0.54	0.76	0.77	0.75
1085	6.22E+03	0.39	0.54	0.76	0.77	0.75
1086	6.22E+03	0.39	0.54	0.76	0.77	0.75
1087	6.22E+03	0.39	0.54	0.76	0.77	0.75
1088	6.22E+03	0.39	0.54	0.76	0.77	0.75
1089	6.22E+03	0.39	0.54	0.76	0.77	0.75
1090	6.22E+03	0.39	0.54	0.76	0.77	0.75
1091	6.22E+03	0.39	0.54	0.76	0.77	0.75
1092	6.22E+03	0.40	0.54	0.76	0.77	0.75
1093	6.22E+03	0.40	0.54	0.76	0.77	0.75
1094	6.22E+03	0.40	0.54	0.76	0.77	0.75
1095	6.22E+03	0.40	0.54	0.76	0.77	0.75
1096	6.22E+03	0.40	0.54	0.76	0.77	0.75
1097	6.22E+03	0.40	0.54	0.76	0.77	0.75
1098	6.22E+03	0.40	0.54	0.76	0.77	0.75
1099	6.22E+03	0.40	0.54	0.76	0.77	0.75
1100	6.22E+03	0.40	0.54	0.76	0.77	0.75
1101	6.22E+03	0.40	0.54	0.76	0.77	0.75
1102	6.22E+03	0.40	0.54	0.76	0.77	0.75

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1103	6.22E+03	0.40	0.54	0.76	0.77	0.75
1104	6.22E+03	0.40	0.54	0.76	0.77	0.75
1105	6.22E+03	0.40	0.54	0.76	0.77	0.75
1106	6.22E+03	0.40	0.54	0.76	0.77	0.75
1107	6.22E+03	0.40	0.55	0.76	0.77	0.75
1108	6.22E+03	0.40	0.55	0.76	0.77	0.75
1109	6.22E+03	0.40	0.55	0.76	0.77	0.75
1110	6.22E+03	0.40	0.55	0.76	0.77	0.75
1111	6.22E+03	0.40	0.55	0.76	0.77	0.75
1112	6.22E+03	0.40	0.55	0.76	0.76	0.75
1113	6.22E+03	0.40	0.55	0.76	0.76	0.75
1114	6.22E+03	0.40	0.55	0.76	0.76	0.75
1115	6.22E+03	0.40	0.55	0.76	0.76	0.75
1116	6.22E+03	0.40	0.55	0.76	0.76	0.75
1117	6.22E+03	0.40	0.55	0.76	0.76	0.75
1118	6.22E+03	0.40	0.55	0.76	0.76	0.75
1119	6.22E+03	0.40	0.55	0.76	0.76	0.75
1120	6.22E+03	0.40	0.55	0.76	0.76	0.74
1121	6.22E+03	0.40	0.55	0.76	0.76	0.74
1122	6.22E+03	0.40	0.55	0.76	0.76	0.74
1123	6.22E+03	0.40	0.55	0.76	0.76	0.74
1124	6.22E+03	0.40	0.55	0.76	0.76	0.74
1125	6.22E+03	0.40	0.55	0.76	0.76	0.74
1126	6.22E+03	0.40	0.55	0.76	0.76	0.74
1127	6.22E+03	0.40	0.55	0.76	0.76	0.74
1128	6.22E+03	0.40	0.55	0.76	0.76	0.74
1129	6.22E+03	0.40	0.55	0.76	0.76	0.74
1130	6.22E+03	0.40	0.55	0.76	0.76	0.74
1131	6.22E+03	0.41	0.55	0.76	0.76	0.74
1132	6.22E+03	0.41	0.55	0.76	0.76	0.74
1133	6.22E+03	0.41	0.55	0.76	0.76	0.74
1134	6.22E+03	0.41	0.55	0.76	0.76	0.74
1135	6.22E+03	0.41	0.55	0.76	0.76	0.74
1136	6.22E+03	0.41	0.55	0.76	0.76	0.74
1137	6.22E+03	0.41	0.55	0.76	0.76	0.74
1138	6.22E+03	0.41	0.55	0.75	0.76	0.74
1139	6.22E+03	0.41	0.55	0.75	0.76	0.74
1140	6.22E+03	0.41	0.55	0.75	0.76	0.74
1141	6.22E+03	0.41	0.55	0.75	0.76	0.74
1142	6.22E+03	0.41	0.55	0.75	0.76	0.74
1143	6.22E+03	0.41	0.55	0.75	0.76	0.74

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1144	6.22E+03	0.41	0.56	0.75	0.76	0.74
1145	6.22E+03	0.41	0.56	0.75	0.76	0.74
1146	6.22E+03	0.41	0.56	0.75	0.76	0.74
1147	6.22E+03	0.41	0.56	0.75	0.76	0.74
1148	6.22E+03	0.41	0.56	0.75	0.76	0.74
1149	6.22E+03	0.41	0.56	0.75	0.76	0.74
1150	6.22E+03	0.41	0.56	0.75	0.76	0.74
1151	6.22E+03	0.41	0.56	0.75	0.76	0.74
1152	6.22E+03	0.41	0.56	0.75	0.76	0.74
1153	6.22E+03	0.41	0.56	0.75	0.76	0.74
1154	6.22E+03	0.41	0.56	0.75	0.76	0.74
1155	6.22E+03	0.41	0.56	0.75	0.76	0.74
1156	6.22E+03	0.41	0.56	0.75	0.76	0.74
1157	6.22E+03	0.41	0.56	0.75	0.76	0.74
1158	6.21E+03	0.41	0.56	0.75	0.76	0.74
1159	6.21E+03	0.41	0.56	0.75	0.76	0.74
1160	6.21E+03	0.41	0.56	0.75	0.76	0.74
1161	6.21E+03	0.41	0.56	0.75	0.76	0.74
1162	6.21E+03	0.41	0.56	0.75	0.76	0.74
1163	6.21E+03	0.41	0.56	0.75	0.76	0.74
1164	6.21E+03	0.41	0.56	0.75	0.76	0.74
1165	6.21E+03	0.41	0.56	0.75	0.76	0.74
1166	6.21E+03	0.41	0.56	0.75	0.76	0.74
1167	6.21E+03	0.41	0.56	0.75	0.76	0.74
1168	6.21E+03	0.41	0.56	0.75	0.76	0.74
1169	6.21E+03	0.41	0.56	0.75	0.76	0.74
1170	6.21E+03	0.41	0.56	0.75	0.76	0.74
1171	6.21E+03	0.42	0.56	0.75	0.76	0.74
1172	6.21E+03	0.42	0.56	0.75	0.76	0.74
1173	6.21E+03	0.42	0.56	0.75	0.76	0.74
1174	6.21E+03	0.42	0.56	0.75	0.76	0.74
1175	6.21E+03	0.42	0.56	0.75	0.76	0.74
1176	6.21E+03	0.42	0.56	0.75	0.76	0.74
1177	6.21E+03	0.42	0.56	0.75	0.76	0.74
1178	6.21E+03	0.42	0.56	0.75	0.76	0.74
1179	6.21E+03	0.42	0.56	0.75	0.76	0.74
1180	6.21E+03	0.42	0.56	0.75	0.76	0.74
1181	6.21E+03	0.42	0.56	0.75	0.76	0.74
1182	6.21E+03	0.42	0.56	0.75	0.76	0.74
1183	6.21E+03	0.42	0.57	0.75	0.76	0.74
1184	6.21E+03	0.42	0.57	0.75	0.76	0.74

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1185	6.21E+03	0.42	0.57	0.75	0.76	0.74
1186	6.21E+03	0.42	0.57	0.75	0.76	0.74
1187	6.21E+03	0.42	0.57	0.75	0.76	0.74
1188	6.21E+03	0.42	0.57	0.75	0.76	0.74
1189	6.21E+03	0.42	0.57	0.75	0.76	0.74
1190	6.21E+03	0.42	0.57	0.75	0.76	0.74
1191	6.21E+03	0.42	0.57	0.75	0.76	0.74
1192	6.21E+03	0.42	0.57	0.75	0.76	0.74
1193	6.21E+03	0.42	0.57	0.75	0.76	0.74
1194	6.21E+03	0.42	0.57	0.75	0.76	0.74
1195	6.21E+03	0.42	0.57	0.75	0.76	0.74
1196	6.21E+03	0.42	0.57	0.75	0.76	0.74
1197	6.21E+03	0.42	0.57	0.75	0.76	0.74
1198	6.21E+03	0.42	0.57	0.75	0.76	0.74
1199	6.21E+03	0.42	0.57	0.75	0.76	0.74
1200	6.21E+03	0.42	0.57	0.75	0.76	0.74
1201	6.21E+03	0.42	0.57	0.75	0.76	0.74
1202	6.21E+03	0.42	0.57	0.75	0.76	0.74
1203	6.21E+03	0.42	0.57	0.75	0.76	0.74
1204	6.21E+03	0.42	0.57	0.75	0.76	0.74
1205	6.21E+03	0.42	0.57	0.75	0.76	0.74
1206	6.21E+03	0.42	0.57	0.75	0.75	0.74
1207	6.21E+03	0.42	0.57	0.75	0.75	0.74
1208	6.21E+03	0.42	0.57	0.75	0.75	0.74
1209	6.21E+03	0.42	0.57	0.75	0.75	0.74
1210	6.21E+03	0.42	0.57	0.75	0.75	0.74
1211	6.21E+03	0.42	0.57	0.75	0.75	0.74
1212	6.21E+03	0.43	0.57	0.75	0.75	0.74
1213	6.21E+03	0.43	0.57	0.75	0.75	0.74
1214	6.21E+03	0.43	0.57	0.75	0.75	0.74
1215	6.21E+03	0.43	0.57	0.75	0.75	0.74
1216	6.21E+03	0.43	0.57	0.75	0.75	0.74
1217	6.21E+03	0.43	0.57	0.75	0.75	0.74
1218	6.21E+03	0.43	0.57	0.75	0.75	0.74
1219	6.21E+03	0.43	0.57	0.75	0.75	0.74
1220	6.21E+03	0.43	0.57	0.75	0.75	0.74
1221	6.21E+03	0.43	0.57	0.75	0.75	0.74
1222	6.21E+03	0.43	0.57	0.75	0.75	0.74
1223	6.21E+03	0.43	0.57	0.75	0.75	0.74
1224	6.21E+03	0.43	0.58	0.75	0.75	0.74
1225	6.21E+03	0.43	0.58	0.75	0.75	0.74

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1226	6.21E+03	0.43	0.58	0.75	0.75	0.74
1227	6.21E+03	0.43	0.58	0.75	0.75	0.74
1228	6.21E+03	0.43	0.58	0.75	0.75	0.74
1229	6.21E+03	0.43	0.58	0.75	0.75	0.74
1230	6.21E+03	0.43	0.58	0.75	0.75	0.74
1231	6.21E+03	0.43	0.58	0.75	0.75	0.74
1232	6.21E+03	0.43	0.58	0.75	0.75	0.74
1233	6.21E+03	0.43	0.58	0.75	0.75	0.74
1234	6.21E+03	0.43	0.58	0.75	0.75	0.74
1235	6.21E+03	0.43	0.58	0.75	0.75	0.74
1236	6.21E+03	0.43	0.58	0.75	0.75	0.74
1237	6.21E+03	0.43	0.58	0.75	0.75	0.74
1238	6.21E+03	0.43	0.58	0.75	0.75	0.74
1239	6.21E+03	0.43	0.58	0.75	0.75	0.74
1240	6.21E+03	0.43	0.58	0.75	0.75	0.74
1241	6.21E+03	0.43	0.58	0.75	0.75	0.74
1242	6.21E+03	0.43	0.58	0.75	0.75	0.74
1243	6.21E+03	0.43	0.58	0.75	0.75	0.74
1244	6.21E+03	0.43	0.58	0.75	0.75	0.74
1245	6.21E+03	0.43	0.58	0.75	0.75	0.74
1246	6.21E+03	0.43	0.58	0.75	0.75	0.74
1247	6.21E+03	0.43	0.58	0.75	0.75	0.74
1248	6.21E+03	0.43	0.58	0.75	0.75	0.74
1249	6.21E+03	0.43	0.58	0.75	0.75	0.74
1250	6.21E+03	0.43	0.58	0.75	0.75	0.74
1251	6.20E+03	0.43	0.58	0.75	0.75	0.74
1252	6.20E+03	0.43	0.58	0.75	0.75	0.74
1253	6.20E+03	0.43	0.58	0.74	0.75	0.74
1254	6.20E+03	0.44	0.58	0.74	0.75	0.74
1255	6.20E+03	0.44	0.58	0.74	0.75	0.74
1256	6.20E+03	0.44	0.58	0.74	0.75	0.74
1257	6.20E+03	0.44	0.58	0.74	0.75	0.74
1258	6.20E+03	0.44	0.58	0.74	0.75	0.74
1259	6.20E+03	0.44	0.58	0.74	0.75	0.74
1260	6.20E+03	0.44	0.58	0.74	0.75	0.74
1261	6.20E+03	0.44	0.58	0.74	0.75	0.74
1262	6.20E+03	0.44	0.58	0.74	0.75	0.74
1263	6.20E+03	0.44	0.58	0.74	0.75	0.74
1264	6.20E+03	0.44	0.58	0.74	0.75	0.74
1265	6.20E+03	0.44	0.58	0.74	0.75	0.74
1266	6.20E+03	0.44	0.58	0.74	0.75	0.74

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1267	6.20E+03	0.44	0.58	0.74	0.75	0.74
1268	6.20E+03	0.44	0.59	0.74	0.75	0.74
1269	6.20E+03	0.44	0.59	0.74	0.75	0.74
1270	6.20E+03	0.44	0.59	0.74	0.75	0.74
1271	6.20E+03	0.44	0.59	0.74	0.75	0.74
1272	6.20E+03	0.44	0.59	0.74	0.75	0.73
1273	6.20E+03	0.44	0.59	0.74	0.75	0.73
1274	6.20E+03	0.44	0.59	0.74	0.75	0.73
1275	6.20E+03	0.44	0.59	0.74	0.75	0.73
1276	6.20E+03	0.44	0.59	0.74	0.75	0.73
1277	6.20E+03	0.44	0.59	0.74	0.75	0.73
1278	6.20E+03	0.44	0.59	0.74	0.75	0.73
1279	6.20E+03	0.44	0.59	0.74	0.75	0.73
1280	6.20E+03	0.44	0.59	0.74	0.75	0.73
1281	6.20E+03	0.44	0.59	0.74	0.75	0.73
1282	6.20E+03	0.44	0.59	0.74	0.75	0.73
1283	6.20E+03	0.44	0.59	0.74	0.75	0.73
1284	6.20E+03	0.44	0.59	0.74	0.75	0.73
1285	6.20E+03	0.44	0.59	0.74	0.75	0.73
1286	6.20E+03	0.44	0.59	0.74	0.75	0.73
1287	6.20E+03	0.44	0.59	0.74	0.75	0.73
1288	6.20E+03	0.44	0.59	0.74	0.75	0.73
1289	6.20E+03	0.44	0.59	0.74	0.75	0.73
1290	6.20E+03	0.44	0.59	0.74	0.75	0.73
1291	6.20E+03	0.44	0.59	0.74	0.75	0.73
1292	6.20E+03	0.44	0.59	0.74	0.75	0.73
1293	6.20E+03	0.44	0.59	0.74	0.75	0.73
1294	6.20E+03	0.44	0.59	0.74	0.75	0.73
1295	6.20E+03	0.44	0.59	0.74	0.75	0.73
1296	6.20E+03	0.44	0.59	0.74	0.75	0.73
1297	6.20E+03	0.45	0.59	0.74	0.75	0.73
1298	6.20E+03	0.45	0.59	0.74	0.75	0.73
1299	6.20E+03	0.45	0.59	0.74	0.75	0.73
1300	6.20E+03	0.45	0.59	0.74	0.75	0.73
1301	6.20E+03	0.45	0.59	0.74	0.75	0.73
1302	6.20E+03	0.45	0.59	0.74	0.75	0.73
1303	6.20E+03	0.45	0.59	0.74	0.75	0.73
1304	6.20E+03	0.45	0.59	0.74	0.75	0.73
1305	6.20E+03	0.45	0.59	0.74	0.75	0.73
1306	6.20E+03	0.45	0.59	0.74	0.75	0.73
1307	6.20E+03	0.45	0.59	0.74	0.75	0.73

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1308	6.20E+03	0.45	0.59	0.74	0.75	0.73
1309	6.20E+03	0.45	0.59	0.74	0.75	0.73
1310	6.20E+03	0.45	0.59	0.74	0.75	0.73
1311	6.20E+03	0.45	0.59	0.74	0.75	0.73
1312	6.20E+03	0.45	0.59	0.74	0.75	0.73
1313	6.20E+03	0.45	0.60	0.74	0.75	0.73
1314	6.20E+03	0.45	0.60	0.74	0.74	0.73
1315	6.20E+03	0.45	0.60	0.74	0.74	0.73
1316	6.20E+03	0.45	0.60	0.74	0.74	0.73
1317	6.20E+03	0.45	0.60	0.74	0.74	0.73
1318	6.20E+03	0.45	0.60	0.74	0.74	0.73
1319	6.20E+03	0.45	0.60	0.74	0.74	0.73
1320	6.20E+03	0.45	0.60	0.74	0.74	0.73
1321	6.20E+03	0.45	0.60	0.74	0.74	0.73
1322	6.20E+03	0.45	0.60	0.74	0.74	0.73
1323	6.20E+03	0.45	0.60	0.74	0.74	0.73
1324	6.20E+03	0.45	0.60	0.74	0.74	0.73
1325	6.20E+03	0.45	0.60	0.74	0.74	0.73
1326	6.20E+03	0.45	0.60	0.74	0.74	0.73
1327	6.20E+03	0.45	0.60	0.74	0.74	0.73
1328	6.20E+03	0.45	0.60	0.74	0.74	0.73
1329	6.20E+03	0.45	0.60	0.74	0.74	0.73
1330	6.20E+03	0.45	0.60	0.74	0.74	0.73
1331	6.20E+03	0.45	0.60	0.74	0.74	0.73
1332	6.20E+03	0.45	0.60	0.74	0.74	0.73
1333	6.20E+03	0.45	0.60	0.74	0.74	0.73
1334	6.20E+03	0.45	0.60	0.74	0.74	0.73
1335	6.20E+03	0.45	0.60	0.74	0.74	0.73
1336	6.20E+03	0.45	0.60	0.74	0.74	0.73
1337	6.20E+03	0.45	0.60	0.74	0.74	0.73
1338	6.20E+03	0.45	0.60	0.74	0.74	0.73
1339	6.20E+03	0.45	0.60	0.74	0.74	0.73
1340	6.20E+03	0.45	0.60	0.74	0.74	0.73
1341	6.20E+03	0.45	0.60	0.74	0.74	0.73
1342	6.19E+03	0.46	0.60	0.74	0.74	0.73
1343	6.19E+03	0.46	0.60	0.74	0.74	0.73
1344	6.19E+03	0.46	0.60	0.74	0.74	0.73
1345	6.19E+03	0.46	0.60	0.74	0.74	0.73
1346	6.19E+03	0.46	0.60	0.74	0.74	0.73
1347	6.19E+03	0.46	0.60	0.74	0.74	0.73
1348	6.19E+03	0.46	0.60	0.74	0.74	0.73

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1349	6.19E+03	0.46	0.60	0.74	0.74	0.73
1350	6.19E+03	0.46	0.60	0.74	0.74	0.73
1351	6.19E+03	0.46	0.60	0.74	0.74	0.73
1352	6.19E+03	0.46	0.60	0.74	0.74	0.73
1353	6.19E+03	0.46	0.60	0.74	0.74	0.73
1354	6.19E+03	0.46	0.60	0.74	0.74	0.73
1355	6.19E+03	0.46	0.60	0.74	0.74	0.73
1356	6.19E+03	0.46	0.60	0.74	0.74	0.73
1357	6.19E+03	0.46	0.60	0.74	0.74	0.73
1358	6.19E+03	0.46	0.60	0.74	0.74	0.73
1359	6.19E+03	0.46	0.60	0.74	0.74	0.73
1360	6.19E+03	0.46	0.60	0.74	0.74	0.73
1361	6.19E+03	0.46	0.61	0.74	0.74	0.73
1362	6.19E+03	0.46	0.61	0.74	0.74	0.73
1363	6.19E+03	0.46	0.61	0.74	0.74	0.73
1364	6.19E+03	0.46	0.61	0.74	0.74	0.73
1365	6.19E+03	0.46	0.61	0.74	0.74	0.73
1366	6.19E+03	0.46	0.61	0.74	0.74	0.73
1367	6.19E+03	0.46	0.61	0.74	0.74	0.73
1368	6.19E+03	0.46	0.61	0.74	0.74	0.73
1369	6.19E+03	0.46	0.61	0.74	0.74	0.73
1370	6.19E+03	0.46	0.61	0.74	0.74	0.73
1371	6.19E+03	0.46	0.61	0.74	0.74	0.73
1372	6.19E+03	0.46	0.61	0.74	0.74	0.73
1373	6.19E+03	0.46	0.61	0.74	0.74	0.73
1374	6.19E+03	0.46	0.61	0.74	0.74	0.73
1375	6.19E+03	0.46	0.61	0.74	0.74	0.73
1376	6.19E+03	0.46	0.61	0.74	0.74	0.73
1377	6.19E+03	0.46	0.61	0.74	0.74	0.73
1378	6.19E+03	0.46	0.61	0.74	0.74	0.73
1379	6.19E+03	0.46	0.61	0.74	0.74	0.73
1380	6.19E+03	0.46	0.61	0.74	0.74	0.73
1381	6.19E+03	0.46	0.61	0.74	0.74	0.73
1382	6.19E+03	0.46	0.61	0.73	0.74	0.73
1383	6.19E+03	0.46	0.61	0.73	0.74	0.73
1384	6.19E+03	0.46	0.61	0.73	0.74	0.73
1385	6.19E+03	0.46	0.61	0.73	0.74	0.73
1386	6.19E+03	0.46	0.61	0.73	0.74	0.73
1387	6.19E+03	0.46	0.61	0.73	0.74	0.73
1388	6.19E+03	0.47	0.61	0.73	0.74	0.73
1389	6.19E+03	0.47	0.61	0.73	0.74	0.73

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1390	6.19E+03	0.47	0.61	0.73	0.74	0.73
1391	6.19E+03	0.47	0.61	0.73	0.74	0.73
1392	6.19E+03	0.47	0.61	0.73	0.74	0.73
1393	6.19E+03	0.47	0.61	0.73	0.74	0.73
1394	6.19E+03	0.47	0.61	0.73	0.74	0.73
1395	6.19E+03	0.47	0.61	0.73	0.74	0.73
1396	6.19E+03	0.47	0.61	0.73	0.74	0.73
1397	6.19E+03	0.47	0.61	0.73	0.74	0.73
1398	6.19E+03	0.47	0.61	0.73	0.74	0.73
1399	6.19E+03	0.47	0.61	0.73	0.74	0.73
1400	6.19E+03	0.47	0.61	0.73	0.74	0.73
1401	6.19E+03	0.47	0.61	0.73	0.74	0.73
1402	6.19E+03	0.47	0.61	0.73	0.74	0.73
1403	6.19E+03	0.47	0.61	0.73	0.74	0.73
1404	6.19E+03	0.47	0.61	0.73	0.74	0.73
1405	6.19E+03	0.47	0.61	0.73	0.74	0.73
1406	6.19E+03	0.47	0.61	0.73	0.74	0.73
1407	6.19E+03	0.47	0.61	0.73	0.74	0.73
1408	6.19E+03	0.47	0.61	0.73	0.74	0.73
1409	6.19E+03	0.47	0.61	0.73	0.74	0.73
1410	6.19E+03	0.47	0.61	0.73	0.74	0.73
1411	6.19E+03	0.47	0.61	0.73	0.74	0.73
1412	6.19E+03	0.47	0.62	0.73	0.74	0.73
1413	6.19E+03	0.47	0.62	0.73	0.74	0.73
1414	6.19E+03	0.47	0.62	0.73	0.74	0.73
1415	6.19E+03	0.47	0.62	0.73	0.74	0.73
1416	6.19E+03	0.47	0.62	0.73	0.74	0.73
1417	6.19E+03	0.47	0.62	0.73	0.74	0.73
1418	6.19E+03	0.47	0.62	0.73	0.74	0.73
1419	6.19E+03	0.47	0.62	0.73	0.74	0.73
1420	6.19E+03	0.47	0.62	0.73	0.74	0.73
1421	6.19E+03	0.47	0.62	0.73	0.74	0.73
1422	6.19E+03	0.47	0.62	0.73	0.74	0.73
1423	6.19E+03	0.47	0.62	0.73	0.74	0.73
1424	6.19E+03	0.47	0.62	0.73	0.74	0.73
1425	6.19E+03	0.47	0.62	0.73	0.74	0.73
1426	6.19E+03	0.47	0.62	0.73	0.74	0.73
1427	6.19E+03	0.47	0.62	0.73	0.74	0.73
1428	6.19E+03	0.47	0.62	0.73	0.74	0.73
1429	6.19E+03	0.47	0.62	0.73	0.74	0.73
1430	6.19E+03	0.47	0.62	0.73	0.74	0.73

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1431	6.19E+03	0.47	0.62	0.73	0.74	0.73
1432	6.18E+03	0.47	0.62	0.73	0.74	0.73
1433	6.18E+03	0.47	0.62	0.73	0.74	0.73
1434	6.18E+03	0.47	0.62	0.73	0.74	0.73
1435	6.18E+03	0.48	0.62	0.73	0.74	0.73
1436	6.18E+03	0.48	0.62	0.73	0.73	0.72
1437	6.18E+03	0.48	0.62	0.73	0.73	0.72
1438	6.18E+03	0.48	0.62	0.73	0.73	0.72
1439	6.18E+03	0.48	0.62	0.73	0.73	0.72
1440	6.18E+03	0.48	0.62	0.73	0.73	0.72
1441	6.18E+03	0.48	0.62	0.73	0.73	0.72
1442	6.18E+03	0.48	0.62	0.73	0.73	0.72
1443	6.18E+03	0.48	0.62	0.73	0.73	0.72
1444	6.18E+03	0.48	0.62	0.73	0.73	0.72
1445	6.18E+03	0.48	0.62	0.73	0.73	0.72
1446	6.18E+03	0.48	0.62	0.73	0.73	0.72
1447	6.18E+03	0.48	0.62	0.73	0.73	0.72
1448	6.18E+03	0.48	0.62	0.73	0.73	0.72
1449	6.18E+03	0.48	0.62	0.73	0.73	0.72
1450	6.18E+03	0.48	0.62	0.73	0.73	0.72
1451	6.18E+03	0.48	0.62	0.73	0.73	0.72
1452	6.18E+03	0.48	0.62	0.73	0.73	0.72
1453	6.18E+03	0.48	0.62	0.73	0.73	0.72
1454	6.18E+03	0.48	0.62	0.73	0.73	0.72
1455	6.18E+03	0.48	0.62	0.73	0.73	0.72
1456	6.18E+03	0.48	0.62	0.73	0.73	0.72
1457	6.18E+03	0.48	0.62	0.73	0.73	0.72
1458	6.18E+03	0.48	0.62	0.73	0.73	0.72
1459	6.18E+03	0.48	0.62	0.73	0.73	0.72
1460	6.18E+03	0.48	0.62	0.73	0.73	0.72
1461	6.18E+03	0.48	0.62	0.73	0.73	0.72
1462	6.18E+03	0.48	0.62	0.73	0.73	0.72
1463	6.18E+03	0.48	0.62	0.73	0.73	0.72
1464	6.18E+03	0.48	0.62	0.73	0.73	0.72
1465	6.18E+03	0.48	0.62	0.73	0.73	0.72
1466	6.18E+03	0.48	0.62	0.73	0.73	0.72
1467	6.18E+03	0.48	0.63	0.73	0.73	0.72
1468	6.18E+03	0.48	0.63	0.73	0.73	0.72
1469	6.18E+03	0.48	0.63	0.73	0.73	0.72
1470	6.18E+03	0.48	0.63	0.73	0.73	0.72
1471	6.18E+03	0.48	0.63	0.73	0.73	0.72

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1472	6.18E+03	0.48	0.63	0.73	0.73	0.72
1473	6.18E+03	0.48	0.63	0.73	0.73	0.72
1474	6.18E+03	0.48	0.63	0.73	0.73	0.72
1475	6.18E+03	0.48	0.63	0.73	0.73	0.72
1476	6.18E+03	0.48	0.63	0.73	0.73	0.72
1477	6.18E+03	0.48	0.63	0.73	0.73	0.72
1478	6.18E+03	0.48	0.63	0.73	0.73	0.72
1479	6.18E+03	0.48	0.63	0.73	0.73	0.72
1480	6.18E+03	0.48	0.63	0.73	0.73	0.72
1481	6.18E+03	0.48	0.63	0.73	0.73	0.72
1482	6.18E+03	0.48	0.63	0.73	0.73	0.72
1483	6.18E+03	0.49	0.63	0.73	0.73	0.72
1484	6.18E+03	0.49	0.63	0.73	0.73	0.72
1485	6.18E+03	0.49	0.63	0.73	0.73	0.72
1486	6.18E+03	0.49	0.63	0.73	0.73	0.72
1487	6.18E+03	0.49	0.63	0.73	0.73	0.72
1488	6.18E+03	0.49	0.63	0.73	0.73	0.72
1489	6.18E+03	0.49	0.63	0.73	0.73	0.72
1490	6.18E+03	0.49	0.63	0.73	0.73	0.72
1491	6.18E+03	0.49	0.63	0.73	0.73	0.72
1492	6.18E+03	0.49	0.63	0.73	0.73	0.72
1493	6.18E+03	0.49	0.63	0.73	0.73	0.72
1494	6.18E+03	0.49	0.63	0.73	0.73	0.72
1495	6.18E+03	0.49	0.63	0.73	0.73	0.72
1496	6.18E+03	0.49	0.63	0.73	0.73	0.72
1497	6.18E+03	0.49	0.63	0.73	0.73	0.72
1498	6.18E+03	0.49	0.63	0.73	0.73	0.72
1499	6.18E+03	0.49	0.63	0.73	0.73	0.72
1500	6.18E+03	0.49	0.63	0.73	0.73	0.72
1501	6.18E+03	0.49	0.63	0.73	0.73	0.72
1502	6.18E+03	0.49	0.63	0.73	0.73	0.72
1503	6.18E+03	0.49	0.63	0.73	0.73	0.72
1504	6.18E+03	0.49	0.63	0.73	0.73	0.72
1505	6.18E+03	0.49	0.63	0.73	0.73	0.72
1506	6.18E+03	0.49	0.63	0.73	0.73	0.72
1507	6.18E+03	0.49	0.63	0.73	0.73	0.72
1508	6.18E+03	0.49	0.63	0.73	0.73	0.72
1509	6.18E+03	0.49	0.63	0.73	0.73	0.72
1510	6.18E+03	0.49	0.63	0.73	0.73	0.72
1511	6.18E+03	0.49	0.63	0.73	0.73	0.72
1512	6.18E+03	0.49	0.63	0.73	0.73	0.72

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1513	6.18E+03	0.49	0.63	0.73	0.73	0.72
1514	6.18E+03	0.49	0.63	0.73	0.73	0.72
1515	6.18E+03	0.49	0.63	0.73	0.73	0.72
1516	6.18E+03	0.49	0.63	0.73	0.73	0.72
1517	6.18E+03	0.49	0.63	0.73	0.73	0.72
1518	6.18E+03	0.49	0.63	0.73	0.73	0.72
1519	6.18E+03	0.49	0.63	0.73	0.73	0.72
1520	6.18E+03	0.49	0.63	0.73	0.73	0.72
1521	6.18E+03	0.49	0.64	0.73	0.73	0.72
1522	6.17E+03	0.49	0.64	0.73	0.73	0.72
1523	6.17E+03	0.49	0.64	0.73	0.73	0.72
1524	6.17E+03	0.49	0.64	0.73	0.73	0.72
1525	6.17E+03	0.49	0.64	0.73	0.73	0.72
1526	6.17E+03	0.49	0.64	0.73	0.73	0.72
1527	6.17E+03	0.49	0.64	0.72	0.73	0.72
1528	6.17E+03	0.49	0.64	0.72	0.73	0.72
1529	6.17E+03	0.49	0.64	0.72	0.73	0.72
1530	6.17E+03	0.49	0.64	0.72	0.73	0.72
1531	6.17E+03	0.49	0.64	0.72	0.73	0.72
1532	6.17E+03	0.49	0.64	0.72	0.73	0.72
1533	6.17E+03	0.49	0.64	0.72	0.73	0.72
1534	6.17E+03	0.50	0.64	0.72	0.73	0.72
1535	6.17E+03	0.50	0.64	0.72	0.73	0.72
1536	6.17E+03	0.50	0.64	0.72	0.73	0.72
1537	6.17E+03	0.50	0.64	0.72	0.73	0.72
1538	6.17E+03	0.50	0.64	0.72	0.73	0.72
1539	6.17E+03	0.50	0.64	0.72	0.73	0.72
1540	6.17E+03	0.50	0.64	0.72	0.73	0.72
1541	6.17E+03	0.50	0.64	0.72	0.73	0.72
1542	6.17E+03	0.50	0.64	0.72	0.73	0.72
1543	6.17E+03	0.50	0.64	0.72	0.73	0.72
1544	6.17E+03	0.50	0.64	0.72	0.73	0.72
1545	6.17E+03	0.50	0.64	0.72	0.73	0.72
1546	6.17E+03	0.50	0.64	0.72	0.73	0.72
1547	6.17E+03	0.50	0.64	0.72	0.73	0.72
1548	6.17E+03	0.50	0.64	0.72	0.73	0.72
1549	6.17E+03	0.50	0.64	0.72	0.73	0.72
1550	6.17E+03	0.50	0.64	0.72	0.73	0.72
1551	6.17E+03	0.50	0.64	0.72	0.73	0.72
1552	6.17E+03	0.50	0.64	0.72	0.73	0.72
1553	6.17E+03	0.50	0.64	0.72	0.73	0.72

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1554	6.17E+03	0.50	0.64	0.72	0.73	0.72
1555	6.17E+03	0.50	0.64	0.72	0.73	0.72
1556	6.17E+03	0.50	0.64	0.72	0.73	0.72
1557	6.17E+03	0.50	0.64	0.72	0.73	0.72
1558	6.17E+03	0.50	0.64	0.72	0.73	0.72
1559	6.17E+03	0.50	0.64	0.72	0.73	0.72
1560	6.17E+03	0.50	0.64	0.72	0.73	0.72
1561	6.17E+03	0.50	0.64	0.72	0.73	0.72
1562	6.17E+03	0.50	0.64	0.72	0.73	0.72
1563	6.17E+03	0.50	0.64	0.72	0.73	0.72
1564	6.17E+03	0.50	0.64	0.72	0.73	0.72
1565	6.17E+03	0.50	0.64	0.72	0.73	0.72
1566	6.17E+03	0.50	0.64	0.72	0.73	0.72
1567	6.17E+03	0.50	0.64	0.72	0.73	0.72
1568	6.17E+03	0.50	0.64	0.72	0.73	0.72
1569	6.17E+03	0.50	0.64	0.72	0.73	0.72
1570	6.17E+03	0.50	0.64	0.72	0.73	0.72
1571	6.17E+03	0.50	0.64	0.72	0.73	0.72
1572	6.17E+03	0.50	0.64	0.72	0.73	0.72
1573	6.17E+03	0.50	0.64	0.72	0.73	0.72
1574	6.17E+03	0.50	0.64	0.72	0.72	0.72
1575	6.17E+03	0.50	0.64	0.72	0.72	0.72
1576	6.17E+03	0.50	0.64	0.72	0.72	0.72
1577	6.17E+03	0.50	0.64	0.72	0.72	0.72
1578	6.17E+03	0.50	0.65	0.72	0.72	0.72
1579	6.17E+03	0.50	0.65	0.72	0.72	0.72
1580	6.17E+03	0.50	0.65	0.72	0.72	0.72
1581	6.17E+03	0.50	0.65	0.72	0.72	0.72
1582	6.17E+03	0.50	0.65	0.72	0.72	0.72
1583	6.17E+03	0.50	0.65	0.72	0.72	0.72
1584	6.17E+03	0.50	0.65	0.72	0.72	0.72
1585	6.17E+03	0.50	0.65	0.72	0.72	0.72
1586	6.17E+03	0.51	0.65	0.72	0.72	0.72
1587	6.17E+03	0.51	0.65	0.72	0.72	0.72
1588	6.17E+03	0.51	0.65	0.72	0.72	0.72
1589	6.17E+03	0.51	0.65	0.72	0.72	0.72
1590	6.17E+03	0.51	0.65	0.72	0.72	0.72
1591	6.17E+03	0.51	0.65	0.72	0.72	0.72
1592	6.17E+03	0.51	0.65	0.72	0.72	0.72
1593	6.17E+03	0.51	0.65	0.72	0.72	0.72
1594	6.17E+03	0.51	0.65	0.72	0.72	0.72

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1595	6.17E+03	0.51	0.65	0.72	0.72	0.72
1596	6.17E+03	0.51	0.65	0.72	0.72	0.72
1597	6.17E+03	0.51	0.65	0.72	0.72	0.72
1598	6.17E+03	0.51	0.65	0.72	0.72	0.72
1599	6.17E+03	0.51	0.65	0.72	0.72	0.72
1600	6.17E+03	0.51	0.65	0.72	0.72	0.72
1601	6.17E+03	0.51	0.65	0.72	0.72	0.72
1602	6.17E+03	0.51	0.65	0.72	0.72	0.72
1603	6.17E+03	0.51	0.65	0.72	0.72	0.72
1604	6.17E+03	0.51	0.65	0.72	0.72	0.72
1605	6.17E+03	0.51	0.65	0.72	0.72	0.72
1606	6.17E+03	0.51	0.65	0.72	0.72	0.72
1607	6.17E+03	0.51	0.65	0.72	0.72	0.72
1608	6.17E+03	0.51	0.65	0.72	0.72	0.72
1609	6.17E+03	0.51	0.65	0.72	0.72	0.72
1610	6.17E+03	0.51	0.65	0.72	0.72	0.72
1611	6.17E+03	0.51	0.65	0.72	0.72	0.72
1612	6.17E+03	0.51	0.65	0.72	0.72	0.71
1613	6.16E+03	0.51	0.65	0.72	0.72	0.71
1614	6.16E+03	0.51	0.65	0.72	0.72	0.71
1615	6.16E+03	0.51	0.65	0.72	0.72	0.71
1616	6.16E+03	0.51	0.65	0.72	0.72	0.71
1617	6.16E+03	0.51	0.65	0.72	0.72	0.71
1618	6.16E+03	0.51	0.65	0.72	0.72	0.71
1619	6.16E+03	0.51	0.65	0.72	0.72	0.71
1620	6.16E+03	0.51	0.65	0.72	0.72	0.71
1621	6.16E+03	0.51	0.65	0.72	0.72	0.71
1622	6.16E+03	0.51	0.65	0.72	0.72	0.71
1623	6.16E+03	0.51	0.65	0.72	0.72	0.71
1624	6.16E+03	0.51	0.65	0.72	0.72	0.71
1625	6.16E+03	0.51	0.65	0.72	0.72	0.71
1626	6.16E+03	0.51	0.65	0.72	0.72	0.71
1627	6.16E+03	0.51	0.65	0.72	0.72	0.71
1628	6.16E+03	0.51	0.65	0.72	0.72	0.71
1629	6.16E+03	0.51	0.65	0.72	0.72	0.71
1630	6.16E+03	0.51	0.65	0.72	0.72	0.71
1631	6.16E+03	0.51	0.65	0.72	0.72	0.71
1632	6.16E+03	0.51	0.65	0.72	0.72	0.71
1633	6.16E+03	0.51	0.65	0.72	0.72	0.71
1634	6.16E+03	0.51	0.65	0.72	0.72	0.71
1635	6.16E+03	0.51	0.65	0.72	0.72	0.71

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1636	6.16E+03	0.51	0.65	0.72	0.72	0.71
1637	6.16E+03	0.51	0.65	0.72	0.72	0.71
1638	6.16E+03	0.51	0.65	0.72	0.72	0.71
1639	6.16E+03	0.51	0.65	0.72	0.72	0.71
1640	6.16E+03	0.52	0.66	0.72	0.72	0.71
1641	6.16E+03	0.52	0.66	0.72	0.72	0.71
1642	6.16E+03	0.52	0.66	0.72	0.72	0.71
1643	6.16E+03	0.52	0.66	0.72	0.72	0.71
1644	6.16E+03	0.52	0.66	0.72	0.72	0.71
1645	6.16E+03	0.52	0.66	0.72	0.72	0.71
1646	6.16E+03	0.52	0.66	0.72	0.72	0.71
1647	6.16E+03	0.52	0.66	0.72	0.72	0.71
1648	6.16E+03	0.52	0.66	0.72	0.72	0.71
1649	6.16E+03	0.52	0.66	0.72	0.72	0.71
1650	6.16E+03	0.52	0.66	0.72	0.72	0.71
1651	6.16E+03	0.52	0.66	0.72	0.72	0.71
1652	6.16E+03	0.52	0.66	0.72	0.72	0.71
1653	6.16E+03	0.52	0.66	0.72	0.72	0.71
1654	6.16E+03	0.52	0.66	0.72	0.72	0.71
1655	6.16E+03	0.52	0.66	0.72	0.72	0.71
1656	6.16E+03	0.52	0.66	0.72	0.72	0.71
1657	6.16E+03	0.52	0.66	0.72	0.72	0.71
1658	6.16E+03	0.52	0.66	0.72	0.72	0.71
1659	6.16E+03	0.52	0.66	0.72	0.72	0.71
1660	6.16E+03	0.52	0.66	0.72	0.72	0.71
1661	6.16E+03	0.52	0.66	0.72	0.72	0.71
1662	6.16E+03	0.52	0.66	0.72	0.72	0.71
1663	6.16E+03	0.52	0.66	0.72	0.72	0.71
1664	6.16E+03	0.52	0.66	0.72	0.72	0.71
1665	6.16E+03	0.52	0.66	0.72	0.72	0.71
1666	6.16E+03	0.52	0.66	0.72	0.72	0.71
1667	6.16E+03	0.52	0.66	0.72	0.72	0.71
1668	6.16E+03	0.52	0.66	0.72	0.72	0.71
1669	6.16E+03	0.52	0.66	0.72	0.72	0.71
1670	6.16E+03	0.52	0.66	0.72	0.72	0.71
1671	6.16E+03	0.52	0.66	0.72	0.72	0.71
1672	6.16E+03	0.52	0.66	0.72	0.72	0.71
1673	6.16E+03	0.52	0.66	0.72	0.72	0.71
1674	6.16E+03	0.52	0.66	0.72	0.72	0.71
1675	6.16E+03	0.52	0.66	0.72	0.72	0.71
1676	6.16E+03	0.52	0.66	0.72	0.72	0.71

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1677	6.16E+03	0.52	0.66	0.72	0.72	0.71
1678	6.16E+03	0.52	0.66	0.72	0.72	0.71
1679	6.16E+03	0.52	0.66	0.72	0.72	0.71
1680	6.16E+03	0.52	0.66	0.72	0.72	0.71
1681	6.16E+03	0.52	0.66	0.72	0.72	0.71
1682	6.16E+03	0.52	0.66	0.72	0.72	0.71
1683	6.16E+03	0.52	0.66	0.72	0.72	0.71
1684	6.16E+03	0.52	0.66	0.72	0.72	0.71
1685	6.16E+03	0.52	0.66	0.72	0.72	0.71
1686	6.16E+03	0.52	0.66	0.72	0.72	0.71
1687	6.16E+03	0.52	0.66	0.71	0.72	0.71
1688	6.16E+03	0.52	0.66	0.71	0.72	0.71
1689	6.16E+03	0.52	0.66	0.71	0.72	0.71
1690	6.16E+03	0.52	0.66	0.71	0.72	0.71
1691	6.16E+03	0.52	0.66	0.71	0.72	0.71
1692	6.16E+03	0.52	0.66	0.71	0.72	0.71
1693	6.16E+03	0.52	0.66	0.71	0.72	0.71
1694	6.16E+03	0.52	0.66	0.71	0.72	0.71
1695	6.16E+03	0.52	0.66	0.71	0.72	0.71
1696	6.16E+03	0.53	0.66	0.71	0.72	0.71
1697	6.16E+03	0.53	0.66	0.71	0.72	0.71
1698	6.16E+03	0.53	0.66	0.71	0.72	0.71
1699	6.16E+03	0.53	0.66	0.71	0.72	0.71
1700	6.16E+03	0.53	0.66	0.71	0.72	0.71
1701	6.16E+03	0.53	0.66	0.71	0.72	0.71
1702	6.16E+03	0.53	0.66	0.71	0.72	0.71
1703	6.16E+03	0.53	0.66	0.71	0.72	0.71
1704	6.16E+03	0.53	0.66	0.71	0.72	0.71
1705	6.15E+03	0.53	0.66	0.71	0.72	0.71
1706	6.15E+03	0.53	0.66	0.71	0.72	0.71
1707	6.15E+03	0.53	0.67	0.71	0.72	0.71
1708	6.15E+03	0.53	0.67	0.71	0.72	0.71
1709	6.15E+03	0.53	0.67	0.71	0.72	0.71
1710	6.15E+03	0.53	0.67	0.71	0.72	0.71
1711	6.15E+03	0.53	0.67	0.71	0.72	0.71
1712	6.15E+03	0.53	0.67	0.71	0.72	0.71
1713	6.15E+03	0.53	0.67	0.71	0.72	0.71
1714	6.15E+03	0.53	0.67	0.71	0.72	0.71
1715	6.15E+03	0.53	0.67	0.71	0.72	0.71
1716	6.15E+03	0.53	0.67	0.71	0.72	0.71
1717	6.15E+03	0.53	0.67	0.71	0.72	0.71

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1718	6.15E+03	0.53	0.67	0.71	0.72	0.71
1719	6.15E+03	0.53	0.67	0.71	0.72	0.71
1720	6.15E+03	0.53	0.67	0.71	0.72	0.71
1721	6.15E+03	0.53	0.67	0.71	0.72	0.71
1722	6.15E+03	0.53	0.67	0.71	0.72	0.71
1723	6.15E+03	0.53	0.67	0.71	0.72	0.71
1724	6.15E+03	0.53	0.67	0.71	0.72	0.71
1725	6.15E+03	0.53	0.67	0.71	0.72	0.71
1726	6.15E+03	0.53	0.67	0.71	0.72	0.71
1727	6.15E+03	0.53	0.67	0.71	0.71	0.71
1728	6.15E+03	0.53	0.67	0.71	0.71	0.71
1729	6.15E+03	0.53	0.67	0.71	0.71	0.71
1730	6.15E+03	0.53	0.67	0.71	0.71	0.71
1731	6.15E+03	0.53	0.67	0.71	0.71	0.71
1732	6.15E+03	0.53	0.67	0.71	0.71	0.71
1733	6.15E+03	0.53	0.67	0.71	0.71	0.71
1734	6.15E+03	0.53	0.67	0.71	0.71	0.71
1735	6.15E+03	0.53	0.67	0.71	0.71	0.71
1736	6.15E+03	0.53	0.67	0.71	0.71	0.71
1737	6.15E+03	0.53	0.67	0.71	0.71	0.71
1738	6.15E+03	0.53	0.67	0.71	0.71	0.71
1739	6.15E+03	0.53	0.67	0.71	0.71	0.71
1740	6.15E+03	0.53	0.67	0.71	0.71	0.71
1741	6.15E+03	0.53	0.67	0.71	0.71	0.71
1742	6.15E+03	0.53	0.67	0.71	0.71	0.71
1743	6.15E+03	0.53	0.67	0.71	0.71	0.71
1744	6.15E+03	0.53	0.67	0.71	0.71	0.71
1745	6.15E+03	0.53	0.67	0.71	0.71	0.71
1746	6.15E+03	0.53	0.67	0.71	0.71	0.71
1747	6.15E+03	0.53	0.67	0.71	0.71	0.71
1748	6.15E+03	0.53	0.67	0.71	0.71	0.71
1749	6.15E+03	0.53	0.67	0.71	0.71	0.71
1750	6.15E+03	0.53	0.67	0.71	0.71	0.71
1751	6.15E+03	0.53	0.67	0.71	0.71	0.71
1752	6.15E+03	0.53	0.67	0.71	0.71	0.71
1753	6.15E+03	0.53	0.67	0.71	0.71	0.71
1754	6.15E+03	0.54	0.67	0.71	0.71	0.71
1755	6.15E+03	0.54	0.67	0.71	0.71	0.71
1756	6.15E+03	0.54	0.67	0.71	0.71	0.71
1757	6.15E+03	0.54	0.67	0.71	0.71	0.71
1758	6.15E+03	0.54	0.67	0.71	0.71	0.71

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1759	6.15E+03	0.54	0.67	0.71	0.71	0.71
1760	6.15E+03	0.54	0.67	0.71	0.71	0.71
1761	6.15E+03	0.54	0.67	0.71	0.71	0.71
1762	6.15E+03	0.54	0.67	0.71	0.71	0.71
1763	6.15E+03	0.54	0.67	0.71	0.71	0.71
1764	6.15E+03	0.54	0.67	0.71	0.71	0.71
1765	6.15E+03	0.54	0.67	0.71	0.71	0.71
1766	6.15E+03	0.54	0.67	0.71	0.71	0.71
1767	6.15E+03	0.54	0.67	0.71	0.71	0.71
1768	6.15E+03	0.54	0.67	0.71	0.71	0.71
1769	6.15E+03	0.54	0.67	0.71	0.71	0.71
1770	6.15E+03	0.54	0.67	0.71	0.71	0.71
1771	6.15E+03	0.54	0.67	0.71	0.71	0.71
1772	6.15E+03	0.54	0.67	0.71	0.71	0.71
1773	6.15E+03	0.54	0.67	0.71	0.71	0.71
1774	6.15E+03	0.54	0.67	0.71	0.71	0.71
1775	6.15E+03	0.54	0.67	0.71	0.71	0.71
1776	6.15E+03	0.54	0.67	0.71	0.71	0.71
1777	6.15E+03	0.54	0.67	0.71	0.71	0.71
1778	6.15E+03	0.54	0.67	0.71	0.71	0.71
1779	6.15E+03	0.54	0.67	0.71	0.71	0.71
1780	6.15E+03	0.54	0.67	0.71	0.71	0.71
1781	6.15E+03	0.54	0.68	0.71	0.71	0.71
1782	6.15E+03	0.54	0.68	0.71	0.71	0.71
1783	6.15E+03	0.54	0.68	0.71	0.71	0.71
1784	6.15E+03	0.54	0.68	0.71	0.71	0.71
1785	6.15E+03	0.54	0.68	0.71	0.71	0.71
1786	6.15E+03	0.54	0.68	0.71	0.71	0.71
1787	6.15E+03	0.54	0.68	0.71	0.71	0.71
1788	6.15E+03	0.54	0.68	0.71	0.71	0.71
1789	6.15E+03	0.54	0.68	0.71	0.71	0.71
1790	6.15E+03	0.54	0.68	0.71	0.71	0.71
1791	6.15E+03	0.54	0.68	0.71	0.71	0.71
1792	6.15E+03	0.54	0.68	0.71	0.71	0.70
1793	6.15E+03	0.54	0.68	0.71	0.71	0.70
1794	6.15E+03	0.54	0.68	0.71	0.71	0.69
1795	6.15E+03	0.54	0.68	0.70	0.71	0.69
1796	6.16E+03	0.54	0.68	0.70	0.71	0.68
1797	6.16E+03	0.54	0.68	0.68	0.71	0.68
1798	6.16E+03	0.54	0.68	0.67	0.70	0.67
1799	6.16E+03	0.54	0.68	0.66	0.69	0.67

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1800	6.15E+03	0.54	0.68	0.65	0.68	0.66
1801	6.15E+03	0.54	0.68	0.65	0.67	0.66
1802	6.14E+03	0.54	0.68	0.64	0.66	0.66
1803	6.13E+03	0.54	0.68	0.64	0.65	0.66
1804	6.12E+03	0.54	0.68	0.64	0.65	0.66
1805	6.11E+03	0.54	0.68	0.64	0.64	0.65
1806	6.10E+03	0.54	0.68	0.65	0.64	0.65
1807	6.09E+03	0.54	0.68	0.65	0.65	0.65
1808	6.09E+03	0.54	0.68	0.65	0.65	0.65
1809	6.09E+03	0.54	0.68	0.65	0.65	0.65
1810	6.08E+03	0.54	0.68	0.65	0.65	0.65
1811	6.08E+03	0.54	0.68	0.65	0.65	0.65
1812	6.08E+03	0.54	0.68	0.65	0.65	0.65
1813	6.07E+03	0.54	0.68	0.65	0.65	0.65
1814	6.07E+03	0.54	0.68	0.65	0.65	0.65
1815	6.07E+03	0.54	0.68	0.65	0.65	0.65
1816	6.07E+03	0.54	0.68	0.65	0.65	0.65
1817	6.07E+03	0.55	0.68	0.65	0.65	0.64
1818	6.07E+03	0.55	0.68	0.64	0.65	0.64
1819	6.07E+03	0.55	0.68	0.64	0.65	0.64
1820	6.06E+03	0.55	0.68	0.64	0.65	0.64
1821	6.06E+03	0.55	0.68	0.64	0.65	0.64
1822	6.06E+03	0.55	0.68	0.64	0.65	0.64
1823	6.06E+03	0.55	0.68	0.64	0.64	0.64
1824	6.06E+03	0.55	0.68	0.64	0.64	0.64
1825	6.06E+03	0.55	0.68	0.64	0.64	0.64
1826	6.06E+03	0.55	0.68	0.64	0.64	0.64
1827	6.06E+03	0.55	0.68	0.64	0.64	0.64
1828	6.06E+03	0.55	0.68	0.64	0.64	0.64
1829	6.06E+03	0.55	0.68	0.64	0.64	0.64
1830	6.05E+03	0.55	0.68	0.64	0.64	0.64
1831	6.05E+03	0.55	0.68	0.64	0.64	0.64
1832	6.05E+03	0.55	0.68	0.64	0.64	0.64
1833	6.05E+03	0.55	0.68	0.64	0.64	0.64
1834	6.05E+03	0.55	0.68	0.64	0.64	0.63
1835	6.05E+03	0.55	0.68	0.64	0.64	0.63
1836	6.05E+03	0.55	0.68	0.63	0.64	0.63
1837	6.05E+03	0.55	0.68	0.63	0.64	0.63
1838	6.05E+03	0.55	0.68	0.63	0.64	0.63
1839	6.05E+03	0.55	0.68	0.63	0.64	0.63
1840	6.05E+03	0.55	0.68	0.63	0.64	0.63

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1841	6.04E+03	0.55	0.68	0.63	0.63	0.63
1842	6.04E+03	0.55	0.68	0.63	0.63	0.63
1843	6.04E+03	0.55	0.68	0.63	0.63	0.63
1844	6.04E+03	0.55	0.68	0.63	0.63	0.63
1845	6.04E+03	0.55	0.68	0.63	0.63	0.63
1846	6.04E+03	0.55	0.68	0.63	0.63	0.63
1847	6.04E+03	0.55	0.68	0.63	0.63	0.63
1848	6.04E+03	0.55	0.68	0.63	0.63	0.63
1849	6.04E+03	0.55	0.68	0.63	0.63	0.63
1850	6.04E+03	0.55	0.68	0.63	0.63	0.63
1851	6.04E+03	0.55	0.68	0.63	0.63	0.62
1852	6.04E+03	0.55	0.68	0.63	0.63	0.62
1853	6.03E+03	0.55	0.68	0.63	0.63	0.62
1854	6.03E+03	0.55	0.68	0.62	0.63	0.62
1855	6.03E+03	0.55	0.68	0.62	0.63	0.62
1856	6.03E+03	0.55	0.68	0.62	0.63	0.62
1857	6.03E+03	0.55	0.68	0.62	0.63	0.62
1858	6.03E+03	0.55	0.68	0.62	0.63	0.62
1859	6.03E+03	0.55	0.68	0.62	0.62	0.62
1860	6.03E+03	0.55	0.68	0.62	0.62	0.62
1861	6.03E+03	0.55	0.68	0.62	0.62	0.62
1862	6.03E+03	0.55	0.68	0.62	0.62	0.62
1863	6.03E+03	0.55	0.68	0.62	0.62	0.62
1864	6.02E+03	0.55	0.68	0.62	0.62	0.62
1865	6.02E+03	0.55	0.68	0.62	0.62	0.62
1866	6.02E+03	0.55	0.68	0.62	0.62	0.62
1867	6.02E+03	0.55	0.68	0.62	0.62	0.62
1868	6.02E+03	0.55	0.68	0.62	0.62	0.62
1869	6.02E+03	0.55	0.68	0.62	0.62	0.62
1870	6.02E+03	0.55	0.68	0.62	0.62	0.62
1871	6.02E+03	0.55	0.68	0.62	0.62	0.62
1872	6.02E+03	0.55	0.68	0.62	0.62	0.62
1873	6.02E+03	0.55	0.68	0.62	0.62	0.62
1874	6.02E+03	0.55	0.68	0.62	0.62	0.62
1875	6.02E+03	0.55	0.68	0.62	0.62	0.62
1876	6.02E+03	0.55	0.68	0.62	0.62	0.62
1877	6.02E+03	0.55	0.68	0.62	0.62	0.62
1878	6.02E+03	0.55	0.68	0.62	0.62	0.62
1879	6.02E+03	0.55	0.68	0.62	0.62	0.62
1880	6.02E+03	0.55	0.68	0.62	0.62	0.62
1881	6.02E+03	0.55	0.68	0.62	0.62	0.62

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1882	6.02E+03	0.55	0.68	0.62	0.62	0.62
1883	6.02E+03	0.55	0.68	0.62	0.62	0.62
1884	6.02E+03	0.55	0.68	0.62	0.62	0.62
1885	6.02E+03	0.55	0.68	0.62	0.62	0.62
1886	6.02E+03	0.55	0.68	0.62	0.62	0.62
1887	6.02E+03	0.55	0.68	0.62	0.62	0.62
1888	6.02E+03	0.55	0.68	0.62	0.62	0.62
1889	6.02E+03	0.55	0.68	0.62	0.62	0.62
1890	6.02E+03	0.55	0.68	0.62	0.62	0.62
1891	6.02E+03	0.55	0.68	0.62	0.62	0.62
1892	6.02E+03	0.55	0.68	0.62	0.62	0.62
1893	6.02E+03	0.55	0.68	0.62	0.62	0.62
1894	6.02E+03	0.55	0.68	0.62	0.62	0.62
1895	6.01E+03	0.55	0.68	0.62	0.62	0.62
1896	6.01E+03	0.55	0.68	0.62	0.62	0.61
1897	6.01E+03	0.55	0.68	0.62	0.62	0.61
1898	6.01E+03	0.55	0.68	0.62	0.62	0.61
1899	6.01E+03	0.55	0.68	0.62	0.62	0.61
1900	6.01E+03	0.55	0.68	0.62	0.62	0.61
1901	6.01E+03	0.55	0.68	0.62	0.62	0.61
1902	6.01E+03	0.55	0.68	0.62	0.62	0.61
1903	6.01E+03	0.56	0.68	0.62	0.62	0.61
1904	6.01E+03	0.56	0.68	0.62	0.62	0.61
1905	6.01E+03	0.56	0.68	0.62	0.62	0.61
1906	6.01E+03	0.56	0.68	0.62	0.62	0.61
1907	6.01E+03	0.56	0.68	0.62	0.62	0.61
1908	6.01E+03	0.56	0.68	0.62	0.62	0.61
1909	6.01E+03	0.56	0.68	0.62	0.62	0.61
1910	6.01E+03	0.56	0.68	0.62	0.62	0.61
1911	6.01E+03	0.56	0.68	0.61	0.62	0.61
1912	6.01E+03	0.56	0.68	0.61	0.62	0.61
1913	6.01E+03	0.56	0.68	0.61	0.62	0.61
1914	6.01E+03	0.56	0.68	0.61	0.62	0.61
1915	6.01E+03	0.56	0.68	0.61	0.62	0.61
1916	6.01E+03	0.56	0.68	0.61	0.62	0.61
1917	6.01E+03	0.56	0.68	0.61	0.62	0.61
1918	6.01E+03	0.56	0.68	0.61	0.62	0.61
1919	6.01E+03	0.56	0.68	0.61	0.61	0.61
1920	6.01E+03	0.56	0.68	0.61	0.61	0.61
1921	6.01E+03	0.56	0.68	0.61	0.61	0.61
1922	6.01E+03	0.56	0.68	0.61	0.61	0.61

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1923	6.01E+03	0.56	0.68	0.61	0.61	0.61
1924	6.01E+03	0.56	0.68	0.61	0.61	0.61
1925	6.01E+03	0.56	0.68	0.61	0.61	0.61
1926	6.01E+03	0.56	0.68	0.61	0.61	0.61
1927	6.01E+03	0.56	0.68	0.61	0.61	0.61
1928	6.01E+03	0.56	0.68	0.61	0.61	0.60
1929	6.01E+03	0.56	0.68	0.61	0.61	0.60
1930	6.00E+03	0.56	0.68	0.60	0.61	0.60
1931	6.00E+03	0.56	0.68	0.60	0.61	0.60
1932	6.00E+03	0.56	0.68	0.60	0.61	0.60
1933	6.00E+03	0.56	0.68	0.60	0.61	0.60
1934	6.00E+03	0.56	0.68	0.60	0.61	0.60
1935	6.00E+03	0.56	0.68	0.60	0.60	0.60
1936	6.00E+03	0.56	0.68	0.60	0.60	0.60
1937	6.00E+03	0.56	0.68	0.60	0.60	0.60
1938	6.00E+03	0.56	0.68	0.60	0.60	0.60
1939	6.00E+03	0.56	0.68	0.60	0.60	0.60
1940	6.00E+03	0.56	0.68	0.60	0.60	0.60
1941	6.00E+03	0.56	0.68	0.60	0.60	0.60
1942	5.99E+03	0.56	0.68	0.60	0.60	0.60
1943	5.99E+03	0.56	0.68	0.60	0.60	0.60
1944	5.99E+03	0.56	0.68	0.60	0.60	0.60
1945	5.99E+03	0.56	0.68	0.60	0.60	0.60
1946	5.99E+03	0.56	0.68	0.60	0.60	0.59
1947	5.99E+03	0.56	0.68	0.60	0.60	0.59
1948	5.99E+03	0.56	0.68	0.59	0.60	0.59
1949	5.99E+03	0.56	0.68	0.59	0.60	0.59
1950	5.99E+03	0.56	0.68	0.59	0.60	0.59
1951	5.99E+03	0.56	0.68	0.59	0.60	0.59
1952	5.99E+03	0.56	0.68	0.59	0.59	0.59
1953	5.99E+03	0.56	0.68	0.59	0.59	0.59
1954	5.99E+03	0.56	0.68	0.59	0.59	0.59
1955	5.98E+03	0.56	0.68	0.59	0.59	0.59
1956	5.98E+03	0.56	0.68	0.59	0.59	0.59
1957	5.98E+03	0.56	0.68	0.59	0.59	0.59
1958	5.98E+03	0.56	0.68	0.59	0.59	0.59
1959	5.98E+03	0.56	0.68	0.59	0.59	0.59
1960	5.98E+03	0.56	0.68	0.59	0.59	0.59
1961	5.98E+03	0.56	0.68	0.59	0.59	0.59
1962	5.98E+03	0.56	0.68	0.59	0.59	0.59
1963	5.98E+03	0.56	0.68	0.59	0.59	0.59

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
1964	5.98E+03	0.56	0.68	0.59	0.59	0.58
1965	5.98E+03	0.56	0.68	0.59	0.59	0.58
1966	5.98E+03	0.56	0.68	0.58	0.59	0.58
1967	5.97E+03	0.56	0.68	0.58	0.59	0.58
1968	5.97E+03	0.56	0.68	0.58	0.59	0.58
1969	5.97E+03	0.56	0.68	0.58	0.59	0.58
1970	5.97E+03	0.56	0.68	0.58	0.59	0.58
1971	5.97E+03	0.56	0.68	0.58	0.58	0.58
1972	5.97E+03	0.56	0.68	0.58	0.58	0.58
1973	5.97E+03	0.56	0.68	0.58	0.58	0.58
1974	5.97E+03	0.56	0.68	0.58	0.58	0.58
1975	5.97E+03	0.56	0.68	0.58	0.58	0.58
1976	5.97E+03	0.56	0.68	0.58	0.58	0.58
1977	5.97E+03	0.56	0.68	0.58	0.58	0.58
1978	5.97E+03	0.56	0.68	0.58	0.58	0.58
1979	5.96E+03	0.56	0.68	0.58	0.58	0.58
1980	5.96E+03	0.56	0.68	0.58	0.58	0.58
1981	5.96E+03	0.56	0.68	0.58	0.58	0.58
1982	5.96E+03	0.56	0.68	0.58	0.58	0.58
1983	5.96E+03	0.56	0.68	0.58	0.58	0.58
1984	5.96E+03	0.56	0.68	0.58	0.58	0.58
1985	5.96E+03	0.56	0.68	0.58	0.58	0.58
1986	5.96E+03	0.56	0.68	0.58	0.58	0.58
1987	5.96E+03	0.56	0.68	0.58	0.58	0.58
1988	5.96E+03	0.56	0.68	0.58	0.58	0.58
1989	5.96E+03	0.56	0.68	0.58	0.58	0.58
1990	5.96E+03	0.56	0.68	0.58	0.58	0.58
1991	5.96E+03	0.56	0.68	0.58	0.58	0.58
1992	5.96E+03	0.56	0.68	0.58	0.58	0.58
1993	5.96E+03	0.56	0.68	0.58	0.58	0.58
1994	5.96E+03	0.56	0.68	0.58	0.58	0.58
1995	5.96E+03	0.56	0.68	0.58	0.58	0.58
1996	5.96E+03	0.56	0.68	0.58	0.58	0.58
1997	5.96E+03	0.56	0.68	0.58	0.58	0.58
1998	5.96E+03	0.56	0.68	0.58	0.58	0.58
1999	5.96E+03	0.56	0.68	0.58	0.58	0.58
2000	5.96E+03	0.56	0.68	0.58	0.58	0.58
2001	5.96E+03	0.56	0.68	0.58	0.58	0.58
2002	5.96E+03	0.56	0.68	0.58	0.58	0.58
2003	5.96E+03	0.56	0.68	0.58	0.58	0.58
2004	5.96E+03	0.56	0.68	0.58	0.58	0.58

Attachment 7

	L	M	N	O	P	Q
20						
21	Qfuel	DT Upper Plenum	DT Lower Plenum	DT Channel Box	DT Rack	DT Fuel
22	BTU/hr	F	F	F	F	F
2005	5.96E+03	0.56	0.68	0.58	0.58	0.58
2006	5.96E+03	0.56	0.68	0.58	0.58	0.58
2007	5.96E+03	0.56	0.68	0.58	0.58	0.58
2008	5.96E+03	0.56	0.68	0.58	0.58	0.58
2009	5.96E+03	0.56	0.68	0.58	0.58	0.58
2010	5.96E+03	0.56	0.68	0.58	0.58	0.58
2011	5.96E+03	0.56	0.68	0.58	0.58	0.58
2012	5.96E+03	0.56	0.68	0.58	0.58	0.58
2013	5.96E+03	0.56	0.68	0.58	0.58	0.58
2014	5.96E+03	0.56	0.68	0.58	0.58	0.58
2015	5.96E+03	0.56	0.68	0.58	0.58	0.58
2016	5.96E+03	0.56	0.68	0.58	0.58	0.58
2017	5.95E+03	0.56	0.68	0.58	0.58	0.58
2018	5.95E+03	0.57	0.68	0.58	0.58	0.58
2019	5.95E+03	0.57	0.68	0.58	0.58	0.58
2020	5.95E+03	0.57	0.68	0.58	0.58	0.57
2021	5.95E+03	0.57	0.68	0.58	0.58	0.57
2022	5.95E+03	0.57	0.68	0.58	0.58	0.57
2023	5.95E+03	0.57	0.68	0.58	0.58	0.57
2024	5.95E+03	0.57	0.68	0.58	0.58	0.57

Attachment 7

	R	S	T	U	V	W
1	Steel Specific Heat (1 NUREG/CR-6150)					
2						
3						
4	$T < 1,671 \text{ K},$ $2T + 3.71 T^{0.719}$					
5						
6						
7						
8	Conductivity (1 NUREG/CR-7024)					
9						
10						
11	$10^{-5} T^2 + 7.67 \times 10^{-9} T^3$					
12						
13						
14						
15						
16						
17						
18						
19		x=AR24		x=AT24		x=AX24
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
23	463.536	0.0584	94.03	0.0682	9.5	0.0682
24	463.536	0.0585	94.03	0.0683	9.5	0.0682
25	463.536	0.0586	94.03	0.0683	9.5	0.0682
26	463.536	0.0586	94.03	0.0683	9.5	0.0682
27	463.536	0.0587	94.03	0.0684	9.5	0.0682
28	463.536	0.0587	94.03	0.0684	9.5	0.0682
29	463.536	0.0588	94.03	0.0684	9.5	0.0682
30	463.536	0.0588	94.03	0.0684	9.5	0.0682
31	463.536	0.0589	94.03	0.0685	9.5	0.0682
32	463.536	0.0589	94.03	0.0685	9.5	0.0682
33	463.536	0.0590	94.03	0.0685	9.5	0.0682
34	463.536	0.0590	94.03	0.0686	9.5	0.0682
35	463.536	0.0591	94.03	0.0686	9.5	0.0682
36	463.536	0.0591	94.03	0.0686	9.5	0.0682

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
37	463.536	0.0592	94.03	0.0687	9.5	0.0682
38	463.536	0.0592	94.03	0.0687	9.5	0.0682
39	463.536	0.0593	94.03	0.0687	9.5	0.0682
40	463.536	0.0593	94.03	0.0688	9.5	0.0682
41	463.536	0.0594	94.03	0.0688	9.5	0.0682
42	463.536	0.0594	94.03	0.0688	9.5	0.0682
43	463.536	0.0595	94.03	0.0689	9.5	0.0682
44	463.536	0.0595	94.03	0.0689	9.5	0.0682
45	463.536	0.0596	94.03	0.0689	9.5	0.0682
46	463.536	0.0596	94.03	0.0690	9.5	0.0682
47	463.536	0.0596	94.03	0.0690	9.5	0.0682
48	463.536	0.0597	94.03	0.0690	9.5	0.0682
49	463.536	0.0597	94.03	0.0690	9.5	0.0682
50	463.536	0.0598	94.03	0.0691	9.5	0.0682
51	463.536	0.0598	94.03	0.0691	9.5	0.0682
52	463.536	0.0599	94.03	0.0691	9.5	0.0682
53	463.536	0.0599	94.03	0.0692	9.5	0.0682
54	463.536	0.0600	94.03	0.0692	9.5	0.0682
55	463.536	0.0600	94.03	0.0692	9.5	0.0682
56	463.536	0.0601	94.03	0.0693	9.5	0.0682
57	463.536	0.0601	94.03	0.0693	9.5	0.0682
58	463.536	0.0601	94.03	0.0693	9.5	0.0682
59	463.536	0.0602	94.03	0.0694	9.5	0.0682
60	463.536	0.0602	94.03	0.0694	9.5	0.0682
61	463.536	0.0603	94.03	0.0694	9.5	0.0682
62	463.536	0.0603	94.03	0.0694	9.5	0.0682
63	463.536	0.0604	94.03	0.0695	9.5	0.0682
64	463.536	0.0604	94.03	0.0695	9.5	0.0682
65	463.536	0.0604	94.03	0.0695	9.5	0.0682
66	463.536	0.0605	94.03	0.0696	9.5	0.0682
67	463.536	0.0605	94.03	0.0696	9.5	0.0682
68	463.536	0.0606	94.03	0.0696	9.5	0.0682
69	463.536	0.0606	94.03	0.0697	9.5	0.0682
70	463.536	0.0606	94.03	0.0697	9.5	0.0682
71	463.536	0.0607	94.03	0.0697	9.5	0.0682
72	463.536	0.0607	94.03	0.0697	9.5	0.0682
73	463.536	0.0608	94.03	0.0698	9.5	0.0682
74	463.536	0.0608	94.03	0.0698	9.5	0.0682
75	463.536	0.0608	94.03	0.0698	9.5	0.0682
76	463.536	0.0609	94.03	0.0699	9.5	0.0682
77	463.536	0.0609	94.03	0.0699	9.5	0.0682

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
78	463.536	0.0610	94.03	0.0699	9.5	0.0682
79	463.536	0.0610	94.03	0.0699	9.5	0.0682
80	463.536	0.0610	94.03	0.0700	9.5	0.0683
81	463.536	0.0611	94.03	0.0700	9.5	0.0683
82	463.536	0.0611	94.03	0.0700	9.5	0.0683
83	463.536	0.0611	94.03	0.0701	9.5	0.0683
84	463.536	0.0612	94.03	0.0701	9.5	0.0683
85	463.536	0.0612	94.03	0.0701	9.5	0.0683
86	463.536	0.0613	94.03	0.0701	9.5	0.0683
87	463.536	0.0613	94.03	0.0702	9.5	0.0683
88	463.536	0.0613	94.03	0.0702	9.5	0.0683
89	463.536	0.0614	94.03	0.0702	9.5	0.0683
90	463.536	0.0614	94.03	0.0703	9.5	0.0683
91	463.536	0.0614	94.03	0.0703	9.5	0.0683
92	463.536	0.0615	94.03	0.0703	9.5	0.0683
93	463.536	0.0615	94.03	0.0703	9.5	0.0683
94	463.536	0.0615	94.03	0.0704	9.5	0.0683
95	463.536	0.0616	94.03	0.0704	9.5	0.0683
96	463.536	0.0616	94.03	0.0704	9.5	0.0683
97	463.536	0.0616	94.03	0.0705	9.5	0.0683
98	463.536	0.0617	94.03	0.0705	9.5	0.0683
99	463.536	0.0617	94.03	0.0705	9.5	0.0683
100	463.536	0.0617	94.03	0.0705	9.5	0.0683
101	463.536	0.0618	94.03	0.0706	9.5	0.0683
102	463.536	0.0618	94.03	0.0706	9.5	0.0683
103	463.536	0.0618	94.03	0.0706	9.5	0.0683
104	463.536	0.0619	94.03	0.0707	9.5	0.0683
105	463.536	0.0619	94.03	0.0707	9.5	0.0683
106	463.536	0.0619	94.03	0.0707	9.5	0.0683
107	463.536	0.0620	94.03	0.0707	9.5	0.0683
108	463.536	0.0620	94.03	0.0708	9.5	0.0683
109	463.536	0.0620	94.03	0.0708	9.5	0.0683
110	463.536	0.0621	94.03	0.0708	9.5	0.0683
111	463.536	0.0621	94.03	0.0708	9.5	0.0683
112	463.536	0.0621	94.03	0.0709	9.5	0.0683
113	463.536	0.0622	94.03	0.0709	9.5	0.0683
114	463.536	0.0622	94.03	0.0709	9.5	0.0683
115	463.536	0.0622	94.03	0.0710	9.5	0.0683
116	463.536	0.0623	94.03	0.0710	9.5	0.0683
117	463.536	0.0623	94.03	0.0710	9.5	0.0683
118	463.536	0.0623	94.03	0.0710	9.5	0.0683

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
119	463.536	0.0624	94.03	0.0711	9.5	0.0683
120	463.536	0.0624	94.03	0.0711	9.5	0.0683
121	463.536	0.0624	94.03	0.0711	9.5	0.0683
122	463.536	0.0625	94.03	0.0711	9.5	0.0683
123	463.536	0.0625	94.03	0.0712	9.5	0.0683
124	463.536	0.0625	94.03	0.0712	9.5	0.0683
125	463.536	0.0625	94.03	0.0712	9.5	0.0683
126	463.536	0.0626	94.03	0.0713	9.5	0.0683
127	463.536	0.0626	94.03	0.0713	9.5	0.0683
128	463.536	0.0626	94.03	0.0713	9.5	0.0683
129	463.536	0.0627	94.03	0.0713	9.5	0.0683
130	463.536	0.0627	94.03	0.0714	9.5	0.0683
131	463.536	0.0627	94.03	0.0714	9.5	0.0683
132	463.536	0.0628	94.03	0.0714	9.5	0.0683
133	463.536	0.0628	94.03	0.0714	9.5	0.0683
134	463.536	0.0628	94.03	0.0715	9.5	0.0683
135	463.536	0.0628	94.03	0.0715	9.5	0.0683
136	463.536	0.0629	94.03	0.0715	9.5	0.0683
137	463.536	0.0629	94.03	0.0715	9.5	0.0683
138	463.536	0.0629	94.03	0.0716	9.5	0.0683
139	463.536	0.0629	94.03	0.0716	9.5	0.0683
140	463.536	0.0630	94.03	0.0716	9.5	0.0683
141	463.536	0.0630	94.03	0.0717	9.5	0.0683
142	463.536	0.0630	94.03	0.0717	9.5	0.0683
143	463.536	0.0631	94.03	0.0717	9.5	0.0683
144	463.536	0.0631	94.03	0.0717	9.5	0.0683
145	463.536	0.0631	94.03	0.0718	9.5	0.0683
146	463.536	0.0631	94.03	0.0718	9.5	0.0684
147	463.536	0.0632	94.03	0.0718	9.5	0.0684
148	463.536	0.0632	94.03	0.0718	9.5	0.0684
149	463.536	0.0632	94.03	0.0719	9.5	0.0684
150	463.536	0.0633	94.03	0.0719	9.5	0.0684
151	463.536	0.0633	94.03	0.0719	9.5	0.0684
152	463.536	0.0633	94.03	0.0719	9.5	0.0684
153	463.536	0.0633	94.03	0.0720	9.5	0.0684
154	463.536	0.0634	94.03	0.0720	9.5	0.0684
155	463.536	0.0634	94.03	0.0720	9.5	0.0684
156	463.536	0.0634	94.03	0.0720	9.5	0.0684
157	463.536	0.0634	94.03	0.0721	9.5	0.0684
158	463.536	0.0635	94.03	0.0721	9.5	0.0684
159	463.536	0.0635	94.03	0.0721	9.5	0.0684

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
160	463.536	0.0635	94.03	0.0721	9.5	0.0684
161	463.536	0.0635	94.03	0.0722	9.5	0.0684
162	463.536	0.0636	94.03	0.0722	9.5	0.0684
163	463.536	0.0636	94.03	0.0722	9.5	0.0684
164	463.536	0.0636	94.03	0.0722	9.5	0.0684
165	463.536	0.0636	94.03	0.0722	9.5	0.0684
166	463.536	0.0637	94.03	0.0722	9.5	0.0684
167	463.536	0.0637	94.03	0.0722	9.5	0.0684
168	463.536	0.0637	94.03	0.0723	9.5	0.0684
169	463.536	0.0637	94.03	0.0723	9.5	0.0684
170	463.536	0.0638	94.03	0.0723	9.5	0.0684
171	463.536	0.0638	94.03	0.0723	9.5	0.0684
172	463.536	0.0638	94.03	0.0723	9.5	0.0684
173	463.536	0.0638	94.03	0.0723	9.5	0.0684
174	463.536	0.0639	94.03	0.0723	9.5	0.0684
175	463.536	0.0639	94.03	0.0724	9.5	0.0684
176	463.536	0.0639	94.03	0.0724	9.5	0.0684
177	463.536	0.0639	94.03	0.0724	9.5	0.0684
178	463.536	0.0640	94.03	0.0724	9.5	0.0684
179	463.536	0.0640	94.03	0.0724	9.5	0.0684
180	463.536	0.0640	94.03	0.0724	9.5	0.0684
181	463.536	0.0640	94.03	0.0724	9.5	0.0684
182	463.536	0.0640	94.03	0.0725	9.5	0.0684
183	463.536	0.0641	94.03	0.0725	9.5	0.0684
184	463.536	0.0641	94.03	0.0725	9.5	0.0684
185	463.536	0.0641	94.03	0.0725	9.5	0.0684
186	463.536	0.0641	94.03	0.0725	9.5	0.0684
187	463.536	0.0642	94.03	0.0725	9.5	0.0684
188	463.536	0.0642	94.03	0.0725	9.5	0.0684
189	463.536	0.0642	94.03	0.0726	9.5	0.0685
190	463.536	0.0642	94.03	0.0726	9.5	0.0685
191	463.536	0.0643	94.03	0.0726	9.5	0.0685
192	463.536	0.0643	94.03	0.0726	9.5	0.0685
193	463.536	0.0643	94.03	0.0726	9.5	0.0685
194	463.536	0.0643	94.03	0.0726	9.5	0.0685
195	463.536	0.0643	94.03	0.0726	9.5	0.0685
196	463.536	0.0644	94.03	0.0727	9.5	0.0685
197	463.536	0.0644	94.03	0.0727	9.5	0.0685
198	463.536	0.0644	94.03	0.0727	9.5	0.0685
199	463.536	0.0644	94.03	0.0727	9.5	0.0685
200	463.536	0.0645	94.03	0.0727	9.5	0.0685

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
201	463.536	0.0645	94.03	0.0727	9.5	0.0685
202	463.536	0.0645	94.03	0.0727	9.5	0.0685
203	463.536	0.0645	94.03	0.0728	9.5	0.0685
204	463.536	0.0645	94.03	0.0728	9.5	0.0685
205	463.536	0.0646	94.03	0.0728	9.5	0.0685
206	463.536	0.0646	94.03	0.0728	9.5	0.0685
207	463.536	0.0646	94.03	0.0728	9.5	0.0685
208	463.536	0.0646	94.03	0.0728	9.5	0.0685
209	463.536	0.0646	94.03	0.0728	9.5	0.0685
210	463.536	0.0647	94.03	0.0729	9.5	0.0685
211	463.536	0.0647	94.03	0.0729	9.5	0.0685
212	463.536	0.0647	94.03	0.0729	9.5	0.0685
213	463.536	0.0647	94.03	0.0729	9.5	0.0685
214	463.536	0.0647	94.03	0.0729	9.5	0.0685
215	463.536	0.0648	94.03	0.0729	9.5	0.0685
216	463.536	0.0648	94.03	0.0729	9.5	0.0685
217	463.536	0.0648	94.03	0.0730	9.5	0.0685
218	463.536	0.0648	94.03	0.0730	9.5	0.0685
219	463.536	0.0649	94.03	0.0730	9.5	0.0685
220	463.536	0.0649	94.03	0.0730	9.5	0.0685
221	463.536	0.0649	94.03	0.0730	9.5	0.0685
222	463.536	0.0649	94.03	0.0730	9.5	0.0685
223	463.536	0.0649	94.03	0.0730	9.5	0.0685
224	463.536	0.0650	94.03	0.0730	9.5	0.0686
225	463.536	0.0650	94.03	0.0731	9.5	0.0686
226	463.536	0.0650	94.03	0.0731	9.5	0.0686
227	463.536	0.0650	94.03	0.0731	9.5	0.0686
228	463.536	0.0650	94.03	0.0731	9.5	0.0686
229	463.536	0.0651	94.03	0.0731	9.5	0.0686
230	463.536	0.0651	94.03	0.0731	9.5	0.0686
231	463.536	0.0651	94.03	0.0731	9.5	0.0686
232	463.536	0.0651	94.03	0.0732	9.5	0.0686
233	463.536	0.0651	94.03	0.0732	9.5	0.0686
234	463.536	0.0651	94.03	0.0732	9.5	0.0686
235	463.536	0.0652	94.03	0.0732	9.5	0.0686
236	463.536	0.0652	94.03	0.0732	9.5	0.0686
237	463.536	0.0652	94.03	0.0732	9.5	0.0686
238	463.536	0.0652	94.03	0.0732	9.5	0.0686
239	463.536	0.0652	94.03	0.0733	9.5	0.0686
240	463.536	0.0653	94.03	0.0733	9.5	0.0686
241	463.536	0.0653	94.03	0.0733	9.5	0.0686

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
242	463.536	0.0653	94.03	0.0733	9.5	0.0686
243	463.536	0.0653	94.03	0.0733	9.5	0.0686
244	463.536	0.0653	94.03	0.0733	9.5	0.0686
245	463.536	0.0654	94.03	0.0733	9.5	0.0686
246	463.536	0.0654	94.03	0.0733	9.5	0.0686
247	463.536	0.0654	94.03	0.0734	9.5	0.0686
248	463.536	0.0654	94.03	0.0734	9.5	0.0686
249	463.536	0.0654	94.03	0.0734	9.5	0.0686
250	463.536	0.0654	94.03	0.0734	9.5	0.0686
251	463.536	0.0655	94.03	0.0734	9.5	0.0686
252	463.536	0.0655	94.03	0.0734	9.5	0.0686
253	463.536	0.0655	94.03	0.0734	9.5	0.0686
254	463.536	0.0655	94.03	0.0735	9.5	0.0686
255	463.536	0.0655	94.03	0.0735	9.5	0.0687
256	463.536	0.0656	94.03	0.0735	9.5	0.0687
257	463.536	0.0656	94.03	0.0735	9.5	0.0687
258	463.536	0.0656	94.03	0.0735	9.5	0.0687
259	463.536	0.0656	94.03	0.0735	9.5	0.0687
260	463.536	0.0656	94.03	0.0735	9.5	0.0687
261	463.536	0.0656	94.03	0.0735	9.5	0.0687
262	463.536	0.0657	94.03	0.0736	9.5	0.0687
263	463.536	0.0657	94.03	0.0736	9.5	0.0687
264	463.536	0.0657	94.03	0.0736	9.5	0.0687
265	463.536	0.0657	94.03	0.0736	9.5	0.0687
266	463.536	0.0657	94.03	0.0736	9.5	0.0687
267	463.536	0.0657	94.03	0.0736	9.5	0.0687
268	463.536	0.0658	94.03	0.0736	9.5	0.0687
269	463.536	0.0658	94.03	0.0737	9.5	0.0687
270	463.536	0.0658	94.03	0.0737	9.5	0.0687
271	463.536	0.0658	94.03	0.0737	9.5	0.0687
272	463.536	0.0658	94.03	0.0737	9.5	0.0687
273	463.536	0.0659	94.03	0.0737	9.5	0.0687
274	463.536	0.0659	94.03	0.0737	9.5	0.0687
275	463.536	0.0659	94.03	0.0737	9.5	0.0687
276	463.536	0.0659	94.03	0.0737	9.5	0.0687
277	463.536	0.0659	94.03	0.0738	9.5	0.0687
278	463.536	0.0659	94.03	0.0738	9.5	0.0687
279	463.536	0.0660	94.03	0.0738	9.5	0.0687
280	463.536	0.0660	94.03	0.0738	9.5	0.0687
281	463.536	0.0660	94.03	0.0738	9.5	0.0687
282	463.536	0.0660	94.03	0.0738	9.5	0.0688

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
283	463.536	0.0660	94.03	0.0738	9.5	0.0688
284	463.536	0.0660	94.03	0.0738	9.5	0.0688
285	463.536	0.0661	94.03	0.0739	9.5	0.0688
286	463.536	0.0661	94.03	0.0739	9.5	0.0688
287	463.536	0.0661	94.03	0.0739	9.5	0.0688
288	463.536	0.0661	94.03	0.0739	9.5	0.0688
289	463.536	0.0661	94.03	0.0739	9.5	0.0688
290	463.536	0.0661	94.03	0.0739	9.5	0.0688
291	463.536	0.0662	94.03	0.0739	9.5	0.0688
292	463.536	0.0662	94.03	0.0740	9.5	0.0688
293	463.536	0.0662	94.03	0.0740	9.5	0.0688
294	463.536	0.0662	94.03	0.0740	9.5	0.0688
295	463.536	0.0662	94.03	0.0740	9.5	0.0688
296	463.536	0.0662	94.03	0.0740	9.5	0.0688
297	463.536	0.0662	94.03	0.0740	9.5	0.0688
298	463.536	0.0663	94.03	0.0740	9.5	0.0688
299	463.536	0.0663	94.03	0.0740	9.5	0.0688
300	463.536	0.0663	94.03	0.0741	9.5	0.0688
301	463.536	0.0663	94.03	0.0741	9.5	0.0688
302	463.536	0.0663	94.03	0.0741	9.5	0.0688
303	463.536	0.0663	94.03	0.0741	9.5	0.0688
304	463.536	0.0664	94.03	0.0741	9.5	0.0688
305	463.536	0.0664	94.03	0.0741	9.5	0.0688
306	463.536	0.0664	94.03	0.0741	9.5	0.0688
307	463.536	0.0664	94.03	0.0741	9.5	0.0688
308	463.536	0.0664	94.03	0.0742	9.5	0.0689
309	463.536	0.0664	94.03	0.0742	9.5	0.0689
310	463.536	0.0664	94.03	0.0742	9.5	0.0689
311	463.536	0.0665	94.03	0.0742	9.5	0.0689
312	463.536	0.0665	94.03	0.0742	9.5	0.0689
313	463.536	0.0665	94.03	0.0742	9.5	0.0689
314	463.536	0.0665	94.03	0.0742	9.5	0.0689
315	463.536	0.0665	94.03	0.0743	9.5	0.0689
316	463.536	0.0665	94.03	0.0743	9.5	0.0689
317	463.536	0.0666	94.03	0.0743	9.5	0.0689
318	463.536	0.0666	94.03	0.0743	9.5	0.0689
319	463.536	0.0666	94.03	0.0743	9.5	0.0689
320	463.536	0.0666	94.03	0.0743	9.5	0.0689
321	463.536	0.0666	94.03	0.0743	9.5	0.0689
322	463.536	0.0666	94.03	0.0743	9.5	0.0689
323	463.536	0.0666	94.03	0.0744	9.5	0.0689

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
324	463.536	0.0667	94.03	0.0744	9.5	0.0689
325	463.536	0.0667	94.03	0.0744	9.5	0.0689
326	463.536	0.0667	94.03	0.0744	9.5	0.0689
327	463.536	0.0667	94.03	0.0744	9.5	0.0689
328	463.536	0.0667	94.03	0.0744	9.5	0.0689
329	463.536	0.0667	94.03	0.0744	9.5	0.0689
330	463.536	0.0667	94.03	0.0744	9.5	0.0689
331	463.536	0.0668	94.03	0.0745	9.5	0.0689
332	463.536	0.0668	94.03	0.0745	9.5	0.0690
333	463.536	0.0668	94.03	0.0745	9.5	0.0690
334	463.536	0.0668	94.03	0.0745	9.5	0.0690
335	463.536	0.0668	94.03	0.0745	9.5	0.0690
336	463.536	0.0668	94.03	0.0745	9.5	0.0690
337	463.536	0.0669	94.03	0.0745	9.5	0.0690
338	463.536	0.0669	94.03	0.0745	9.5	0.0690
339	463.536	0.0669	94.03	0.0746	9.5	0.0690
340	463.536	0.0669	94.03	0.0746	9.5	0.0690
341	463.536	0.0669	94.03	0.0746	9.5	0.0690
342	463.536	0.0669	94.03	0.0746	9.5	0.0690
343	463.536	0.0669	94.03	0.0746	9.5	0.0690
344	463.536	0.0670	94.03	0.0746	9.5	0.0690
345	463.536	0.0670	94.03	0.0746	9.5	0.0690
346	463.536	0.0670	94.03	0.0747	9.5	0.0690
347	463.536	0.0670	94.03	0.0747	9.5	0.0690
348	463.536	0.0670	94.03	0.0747	9.5	0.0690
349	463.536	0.0670	94.03	0.0747	9.5	0.0690
350	463.536	0.0670	94.03	0.0747	9.5	0.0690
351	463.536	0.0670	94.03	0.0747	9.5	0.0690
352	463.536	0.0671	94.03	0.0747	9.5	0.0690
353	463.536	0.0671	94.03	0.0747	9.5	0.0690
354	463.536	0.0671	94.03	0.0748	9.5	0.0691
355	463.536	0.0671	94.03	0.0748	9.5	0.0691
356	463.536	0.0671	94.03	0.0748	9.5	0.0691
357	463.536	0.0671	94.03	0.0748	9.5	0.0691
358	463.536	0.0671	94.03	0.0748	9.5	0.0691
359	463.536	0.0672	94.03	0.0748	9.5	0.0691
360	463.536	0.0672	94.03	0.0748	9.5	0.0691
361	463.536	0.0672	94.03	0.0748	9.5	0.0691
362	463.536	0.0672	94.03	0.0749	9.5	0.0691
363	463.536	0.0672	94.03	0.0749	9.5	0.0691
364	463.536	0.0672	94.03	0.0749	9.5	0.0691

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
365	463.536	0.0672	94.03	0.0749	9.5	0.0691
366	463.536	0.0673	94.03	0.0749	9.5	0.0691
367	463.536	0.0673	94.03	0.0749	9.5	0.0691
368	463.536	0.0673	94.03	0.0749	9.5	0.0691
369	463.536	0.0673	94.03	0.0749	9.5	0.0691
370	463.536	0.0673	94.03	0.0750	9.5	0.0691
371	463.536	0.0673	94.03	0.0750	9.5	0.0691
372	463.536	0.0673	94.03	0.0750	9.5	0.0691
373	463.536	0.0673	94.03	0.0750	9.5	0.0691
374	463.536	0.0674	94.03	0.0750	9.5	0.0691
375	463.536	0.0674	94.03	0.0750	9.5	0.0691
376	463.536	0.0674	94.03	0.0750	9.5	0.0692
377	463.536	0.0674	94.03	0.0750	9.5	0.0692
378	463.536	0.0674	94.03	0.0751	9.5	0.0692
379	463.536	0.0674	94.03	0.0751	9.5	0.0692
380	463.536	0.0674	94.03	0.0751	9.5	0.0692
381	463.536	0.0675	94.03	0.0751	9.5	0.0692
382	463.536	0.0675	94.03	0.0751	9.5	0.0692
383	463.536	0.0675	94.03	0.0751	9.5	0.0692
384	463.536	0.0675	94.03	0.0751	9.5	0.0692
385	463.536	0.0675	94.03	0.0751	9.5	0.0692
386	463.536	0.0675	94.03	0.0752	9.5	0.0692
387	463.536	0.0675	94.03	0.0752	9.5	0.0692
388	463.536	0.0675	94.03	0.0752	9.5	0.0692
389	463.536	0.0676	94.03	0.0752	9.5	0.0692
390	463.536	0.0676	94.03	0.0752	9.5	0.0692
391	463.536	0.0676	94.03	0.0752	9.5	0.0692
392	463.536	0.0676	94.03	0.0752	9.5	0.0692
393	463.536	0.0676	94.03	0.0753	9.5	0.0692
394	463.536	0.0676	94.03	0.0753	9.5	0.0692
395	463.536	0.0676	94.03	0.0753	9.5	0.0692
396	463.536	0.0676	94.03	0.0753	9.5	0.0693
397	463.536	0.0677	94.03	0.0753	9.5	0.0693
398	463.536	0.0677	94.03	0.0753	9.5	0.0693
399	463.536	0.0677	94.03	0.0753	9.5	0.0693
400	463.536	0.0677	94.03	0.0753	9.5	0.0693
401	463.536	0.0677	94.03	0.0754	9.5	0.0693
402	463.536	0.0677	94.03	0.0754	9.5	0.0693
403	463.536	0.0677	94.03	0.0754	9.5	0.0693
404	463.536	0.0677	94.03	0.0754	9.5	0.0693
405	463.536	0.0678	94.03	0.0754	9.5	0.0693

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
406	463.536	0.0678	94.03	0.0754	9.5	0.0693
407	463.536	0.0678	94.03	0.0754	9.5	0.0693
408	463.536	0.0678	94.03	0.0754	9.5	0.0693
409	463.536	0.0678	94.03	0.0755	9.5	0.0693
410	463.536	0.0678	94.03	0.0755	9.5	0.0693
411	463.536	0.0678	94.03	0.0755	9.5	0.0693
412	463.536	0.0678	94.03	0.0755	9.5	0.0693
413	463.536	0.0679	94.03	0.0755	9.5	0.0693
414	463.536	0.0679	94.03	0.0755	9.5	0.0693
415	463.536	0.0679	94.03	0.0755	9.5	0.0693
416	463.536	0.0679	94.03	0.0755	9.5	0.0694
417	463.536	0.0679	94.03	0.0756	9.5	0.0694
418	463.536	0.0679	94.03	0.0756	9.5	0.0694
419	463.536	0.0679	94.03	0.0756	9.5	0.0694
420	463.536	0.0679	94.03	0.0756	9.5	0.0694
421	463.536	0.0680	94.03	0.0756	9.5	0.0694
422	463.536	0.0680	94.03	0.0756	9.5	0.0694
423	463.536	0.0680	94.03	0.0756	9.5	0.0694
424	463.536	0.0680	94.03	0.0756	9.5	0.0694
425	463.536	0.0680	94.03	0.0757	9.5	0.0694
426	463.536	0.0680	94.03	0.0757	9.5	0.0694
427	463.536	0.0680	94.03	0.0757	9.5	0.0694
428	463.536	0.0680	94.03	0.0757	9.5	0.0694
429	463.536	0.0681	94.03	0.0757	9.5	0.0694
430	463.536	0.0681	94.03	0.0757	9.5	0.0694
431	463.536	0.0681	94.03	0.0757	9.5	0.0694
432	463.536	0.0681	94.03	0.0757	9.5	0.0694
433	463.536	0.0681	94.03	0.0758	9.5	0.0694
434	463.536	0.0681	94.03	0.0758	9.5	0.0694
435	463.536	0.0681	94.03	0.0758	9.5	0.0695
436	463.536	0.0681	94.03	0.0758	9.5	0.0695
437	463.536	0.0681	94.03	0.0758	9.5	0.0695
438	463.536	0.0682	94.03	0.0758	9.5	0.0695
439	463.536	0.0682	94.03	0.0758	9.5	0.0695
440	463.536	0.0682	94.03	0.0758	9.5	0.0695
441	463.536	0.0682	94.03	0.0759	9.5	0.0695
442	463.536	0.0682	94.03	0.0759	9.5	0.0695
443	463.536	0.0682	94.03	0.0759	9.5	0.0695
444	463.536	0.0682	94.03	0.0759	9.5	0.0695
445	463.536	0.0682	94.03	0.0759	9.5	0.0695
446	463.536	0.0683	94.03	0.0759	9.5	0.0695

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
447	463.536	0.0683	94.03	0.0759	9.5	0.0695
448	463.536	0.0683	94.03	0.0760	9.5	0.0695
449	463.536	0.0683	94.03	0.0760	9.5	0.0695
450	463.536	0.0683	94.03	0.0760	9.5	0.0695
451	463.536	0.0683	94.03	0.0760	9.5	0.0695
452	463.536	0.0683	94.03	0.0760	9.5	0.0695
453	463.536	0.0683	94.03	0.0760	9.5	0.0696
454	463.536	0.0683	94.03	0.0760	9.5	0.0696
455	463.536	0.0684	94.03	0.0760	9.5	0.0696
456	463.536	0.0684	94.03	0.0761	9.5	0.0696
457	463.536	0.0684	94.03	0.0761	9.5	0.0696
458	463.536	0.0684	94.03	0.0761	9.5	0.0696
459	463.536	0.0684	94.03	0.0761	9.5	0.0696
460	463.536	0.0684	94.03	0.0761	9.5	0.0696
461	463.536	0.0684	94.03	0.0761	9.5	0.0696
462	463.536	0.0684	94.03	0.0761	9.5	0.0696
463	463.536	0.0684	94.03	0.0761	9.5	0.0696
464	463.536	0.0685	94.03	0.0762	9.5	0.0696
465	463.536	0.0685	94.03	0.0762	9.5	0.0696
466	463.536	0.0685	94.03	0.0762	9.5	0.0696
467	463.536	0.0685	94.03	0.0762	9.5	0.0696
468	463.536	0.0685	94.03	0.0762	9.5	0.0696
469	463.536	0.0685	94.03	0.0762	9.5	0.0696
470	463.536	0.0685	94.03	0.0762	9.5	0.0696
471	463.536	0.0685	94.03	0.0762	9.5	0.0697
472	463.536	0.0685	94.03	0.0763	9.5	0.0697
473	463.536	0.0686	94.03	0.0763	9.5	0.0697
474	463.536	0.0686	94.03	0.0763	9.5	0.0697
475	463.536	0.0686	94.03	0.0763	9.5	0.0697
476	463.536	0.0686	94.03	0.0763	9.5	0.0697
477	463.536	0.0686	94.03	0.0763	9.5	0.0697
478	463.536	0.0686	94.03	0.0763	9.5	0.0697
479	463.536	0.0686	94.03	0.0763	9.5	0.0697
480	463.536	0.0686	94.03	0.0764	9.5	0.0697
481	463.536	0.0686	94.03	0.0764	9.5	0.0697
482	463.536	0.0687	94.03	0.0764	9.5	0.0697
483	463.536	0.0687	94.03	0.0764	9.5	0.0697
484	463.536	0.0687	94.03	0.0764	9.5	0.0697
485	463.536	0.0687	94.03	0.0764	9.5	0.0697
486	463.536	0.0687	94.03	0.0764	9.5	0.0697
487	463.536	0.0687	94.03	0.0764	9.5	0.0697

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
488	463.536	0.0687	94.03	0.0765	9.5	0.0698
489	463.536	0.0687	94.03	0.0765	9.5	0.0698
490	463.536	0.0687	94.03	0.0765	9.5	0.0698
491	463.536	0.0687	94.03	0.0765	9.5	0.0698
492	463.536	0.0688	94.03	0.0765	9.5	0.0698
493	463.536	0.0688	94.03	0.0765	9.5	0.0698
494	463.536	0.0688	94.03	0.0765	9.5	0.0698
495	463.536	0.0688	94.03	0.0765	9.5	0.0698
496	463.536	0.0688	94.03	0.0766	9.5	0.0698
497	463.536	0.0688	94.03	0.0766	9.5	0.0698
498	463.536	0.0688	94.03	0.0766	9.5	0.0698
499	463.536	0.0688	94.03	0.0766	9.5	0.0698
500	463.536	0.0688	94.03	0.0766	9.5	0.0698
501	463.536	0.0689	94.03	0.0766	9.5	0.0698
502	463.536	0.0689	94.03	0.0766	9.5	0.0698
503	463.536	0.0689	94.03	0.0766	9.5	0.0698
504	463.536	0.0689	94.03	0.0767	9.5	0.0698
505	463.536	0.0689	94.03	0.0767	9.5	0.0699
506	463.536	0.0689	94.03	0.0767	9.5	0.0699
507	463.536	0.0689	94.03	0.0767	9.5	0.0699
508	463.536	0.0689	94.03	0.0767	9.5	0.0699
509	463.536	0.0689	94.03	0.0767	9.5	0.0699
510	463.536	0.0689	94.03	0.0767	9.5	0.0699
511	463.536	0.0690	94.03	0.0767	9.5	0.0699
512	463.536	0.0690	94.03	0.0768	9.5	0.0699
513	463.536	0.0690	94.03	0.0768	9.5	0.0699
514	463.536	0.0690	94.03	0.0768	9.5	0.0699
515	463.536	0.0690	94.03	0.0768	9.5	0.0699
516	463.536	0.0690	94.03	0.0768	9.5	0.0699
517	463.536	0.0690	94.03	0.0768	9.5	0.0699
518	463.536	0.0690	94.03	0.0768	9.5	0.0699
519	463.536	0.0690	94.03	0.0769	9.5	0.0699
520	463.536	0.0690	94.03	0.0769	9.5	0.0699
521	463.536	0.0691	94.03	0.0769	9.5	0.0700
522	463.536	0.0691	94.03	0.0769	9.5	0.0700
523	463.536	0.0691	94.03	0.0769	9.5	0.0700
524	463.536	0.0691	94.03	0.0769	9.5	0.0700
525	463.536	0.0691	94.03	0.0769	9.5	0.0700
526	463.536	0.0691	94.03	0.0769	9.5	0.0700
527	463.536	0.0691	94.03	0.0770	9.5	0.0700
528	463.536	0.0691	94.03	0.0770	9.5	0.0700

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
529	463.536	0.0691	94.03	0.0770	9.5	0.0700
530	463.536	0.0691	94.03	0.0770	9.5	0.0700
531	463.536	0.0692	94.03	0.0770	9.5	0.0700
532	463.536	0.0692	94.03	0.0770	9.5	0.0700
533	463.536	0.0692	94.03	0.0770	9.5	0.0700
534	463.536	0.0692	94.03	0.0770	9.5	0.0700
535	463.536	0.0692	94.03	0.0771	9.5	0.0700
536	463.536	0.0692	94.03	0.0771	9.5	0.0700
537	463.536	0.0692	94.03	0.0771	9.5	0.0701
538	463.536	0.0692	94.03	0.0771	9.5	0.0701
539	463.536	0.0692	94.03	0.0771	9.5	0.0701
540	463.536	0.0692	94.03	0.0771	9.5	0.0701
541	463.536	0.0693	94.03	0.0771	9.5	0.0701
542	463.536	0.0693	94.03	0.0771	9.5	0.0701
543	463.536	0.0693	94.03	0.0772	9.5	0.0701
544	463.536	0.0693	94.03	0.0772	9.5	0.0701
545	463.536	0.0693	94.03	0.0772	9.5	0.0701
546	463.536	0.0693	94.03	0.0772	9.5	0.0701
547	463.536	0.0693	94.03	0.0772	9.5	0.0701
548	463.536	0.0693	94.03	0.0772	9.5	0.0701
549	463.536	0.0693	94.03	0.0772	9.5	0.0701
550	463.536	0.0693	94.03	0.0772	9.5	0.0701
551	463.536	0.0694	94.03	0.0773	9.5	0.0701
552	463.536	0.0694	94.03	0.0773	9.5	0.0702
553	463.536	0.0694	94.03	0.0773	9.5	0.0702
554	463.536	0.0694	94.03	0.0773	9.5	0.0702
555	463.536	0.0694	94.03	0.0773	9.5	0.0702
556	463.536	0.0694	94.03	0.0773	9.5	0.0702
557	463.536	0.0694	94.03	0.0773	9.5	0.0702
558	463.536	0.0694	94.03	0.0773	9.5	0.0702
559	463.536	0.0694	94.03	0.0774	9.5	0.0702
560	463.536	0.0694	94.03	0.0774	9.5	0.0702
561	463.536	0.0694	94.03	0.0774	9.5	0.0702
562	463.536	0.0695	94.03	0.0774	9.5	0.0702
563	463.536	0.0695	94.03	0.0774	9.5	0.0702
564	463.536	0.0695	94.03	0.0774	9.5	0.0702
565	463.536	0.0695	94.03	0.0774	9.5	0.0702
566	463.536	0.0695	94.03	0.0774	9.5	0.0702
567	463.536	0.0695	94.03	0.0775	9.5	0.0703
568	463.536	0.0695	94.03	0.0775	9.5	0.0703
569	463.536	0.0695	94.03	0.0775	9.5	0.0703

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
570	463.536	0.0695	94.03	0.0775	9.5	0.0703
571	463.536	0.0695	94.03	0.0775	9.5	0.0703
572	463.536	0.0696	94.03	0.0775	9.5	0.0703
573	463.536	0.0696	94.03	0.0775	9.5	0.0703
574	463.536	0.0696	94.03	0.0775	9.5	0.0703
575	463.536	0.0696	94.03	0.0776	9.5	0.0703
576	463.536	0.0696	94.03	0.0776	9.5	0.0703
577	463.536	0.0696	94.03	0.0776	9.5	0.0703
578	463.536	0.0696	94.03	0.0776	9.5	0.0703
579	463.536	0.0696	94.03	0.0776	9.5	0.0703
580	463.536	0.0696	94.03	0.0776	9.5	0.0703
581	463.536	0.0696	94.03	0.0776	9.5	0.0703
582	463.536	0.0696	94.03	0.0776	9.5	0.0704
583	463.536	0.0697	94.03	0.0777	9.5	0.0704
584	463.536	0.0697	94.03	0.0777	9.5	0.0704
585	463.536	0.0697	94.03	0.0777	9.5	0.0704
586	463.536	0.0697	94.03	0.0777	9.5	0.0704
587	463.536	0.0697	94.03	0.0777	9.5	0.0704
588	463.536	0.0697	94.03	0.0777	9.5	0.0704
589	463.536	0.0697	94.03	0.0777	9.5	0.0704
590	463.536	0.0697	94.03	0.0777	9.5	0.0704
591	463.536	0.0697	94.03	0.0778	9.5	0.0704
592	463.536	0.0697	94.03	0.0778	9.5	0.0704
593	463.536	0.0697	94.03	0.0778	9.5	0.0704
594	463.536	0.0698	94.03	0.0778	9.5	0.0704
595	463.536	0.0698	94.03	0.0778	9.5	0.0704
596	463.536	0.0698	94.03	0.0778	9.5	0.0704
597	463.536	0.0698	94.03	0.0778	9.5	0.0705
598	463.536	0.0698	94.03	0.0778	9.5	0.0705
599	463.536	0.0698	94.03	0.0779	9.5	0.0705
600	463.536	0.0698	94.03	0.0779	9.5	0.0705
601	463.536	0.0698	94.03	0.0779	9.5	0.0705
602	463.536	0.0698	94.03	0.0779	9.5	0.0705
603	463.536	0.0698	94.03	0.0779	9.5	0.0705
604	463.536	0.0698	94.03	0.0779	9.5	0.0705
605	463.536	0.0699	94.03	0.0779	9.5	0.0705
606	463.536	0.0699	94.03	0.0779	9.5	0.0705
607	463.536	0.0699	94.03	0.0780	9.5	0.0705
608	463.536	0.0699	94.03	0.0780	9.5	0.0705
609	463.536	0.0699	94.03	0.0780	9.5	0.0705
610	463.536	0.0699	94.03	0.0780	9.5	0.0705

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
611	463.536	0.0699	94.03	0.0780	9.5	0.0706
612	463.536	0.0699	94.03	0.0780	9.5	0.0706
613	463.536	0.0699	94.03	0.0780	9.5	0.0706
614	463.536	0.0699	94.03	0.0780	9.5	0.0706
615	463.536	0.0699	94.03	0.0781	9.5	0.0706
616	463.536	0.0699	94.03	0.0781	9.5	0.0706
617	463.536	0.0700	94.03	0.0781	9.5	0.0706
618	463.536	0.0700	94.03	0.0781	9.5	0.0706
619	463.536	0.0700	94.03	0.0781	9.5	0.0706
620	463.536	0.0700	94.03	0.0781	9.5	0.0706
621	463.536	0.0700	94.03	0.0781	9.5	0.0706
622	463.536	0.0700	94.03	0.0781	9.5	0.0706
623	463.536	0.0700	94.03	0.0782	9.5	0.0706
624	463.536	0.0700	94.03	0.0782	9.5	0.0706
625	463.536	0.0700	94.03	0.0782	9.5	0.0707
626	463.536	0.0700	94.03	0.0782	9.5	0.0707
627	463.536	0.0700	94.03	0.0782	9.5	0.0707
628	463.536	0.0700	94.03	0.0782	9.5	0.0707
629	463.536	0.0701	94.03	0.0782	9.5	0.0707
630	463.536	0.0701	94.03	0.0782	9.5	0.0707
631	463.536	0.0701	94.03	0.0783	9.5	0.0707
632	463.536	0.0701	94.03	0.0783	9.5	0.0707
633	463.536	0.0701	94.03	0.0783	9.5	0.0707
634	463.536	0.0701	94.03	0.0783	9.5	0.0707
635	463.536	0.0701	94.03	0.0783	9.5	0.0707
636	463.536	0.0701	94.03	0.0783	9.5	0.0707
637	463.536	0.0701	94.03	0.0783	9.5	0.0707
638	463.536	0.0701	94.03	0.0783	9.5	0.0708
639	463.536	0.0701	94.03	0.0784	9.5	0.0708
640	463.536	0.0702	94.03	0.0784	9.5	0.0708
641	463.536	0.0702	94.03	0.0784	9.5	0.0708
642	463.536	0.0702	94.03	0.0784	9.5	0.0708
643	463.536	0.0702	94.03	0.0784	9.5	0.0708
644	463.536	0.0702	94.03	0.0784	9.5	0.0708
645	463.536	0.0702	94.03	0.0784	9.5	0.0708
646	463.536	0.0702	94.03	0.0784	9.5	0.0708
647	463.536	0.0702	94.03	0.0785	9.5	0.0708
648	463.536	0.0702	94.03	0.0785	9.5	0.0708
649	463.536	0.0702	94.03	0.0785	9.5	0.0708
650	463.536	0.0702	94.03	0.0785	9.5	0.0708
651	463.536	0.0702	94.03	0.0785	9.5	0.0708

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
652	463.536	0.0702	94.03	0.0785	9.5	0.0709
653	463.536	0.0703	94.03	0.0785	9.5	0.0709
654	463.536	0.0703	94.03	0.0785	9.5	0.0709
655	463.536	0.0703	94.03	0.0786	9.5	0.0709
656	463.536	0.0703	94.03	0.0786	9.5	0.0709
657	463.536	0.0703	94.03	0.0786	9.5	0.0709
658	463.536	0.0703	94.03	0.0786	9.5	0.0709
659	463.536	0.0703	94.03	0.0786	9.5	0.0709
660	463.536	0.0703	94.03	0.0786	9.5	0.0709
661	463.536	0.0703	94.03	0.0786	9.5	0.0709
662	463.536	0.0703	94.03	0.0786	9.5	0.0709
663	463.536	0.0703	94.03	0.0787	9.5	0.0709
664	463.536	0.0703	94.03	0.0787	9.5	0.0709
665	463.536	0.0704	94.03	0.0787	9.5	0.0710
666	463.536	0.0704	94.03	0.0787	9.5	0.0710
667	463.536	0.0704	94.03	0.0787	9.5	0.0710
668	463.536	0.0704	94.03	0.0787	9.5	0.0710
669	463.536	0.0704	94.03	0.0787	9.5	0.0710
670	463.536	0.0704	94.03	0.0787	9.5	0.0710
671	463.536	0.0704	94.03	0.0788	9.5	0.0710
672	463.536	0.0704	94.03	0.0788	9.5	0.0710
673	463.536	0.0704	94.03	0.0788	9.5	0.0710
674	463.536	0.0704	94.03	0.0788	9.5	0.0710
675	463.536	0.0704	94.03	0.0788	9.5	0.0710
676	463.536	0.0704	94.03	0.0788	9.5	0.0710
677	463.536	0.0705	94.03	0.0788	9.5	0.0710
678	463.536	0.0705	94.03	0.0788	9.5	0.0711
679	463.536	0.0705	94.03	0.0789	9.5	0.0711
680	463.536	0.0705	94.03	0.0789	9.5	0.0711
681	463.536	0.0705	94.03	0.0789	9.5	0.0711
682	463.536	0.0705	94.03	0.0789	9.5	0.0711
683	463.536	0.0705	94.03	0.0789	9.5	0.0711
684	463.536	0.0705	94.03	0.0789	9.5	0.0711
685	463.536	0.0705	94.03	0.0789	9.5	0.0711
686	463.536	0.0705	94.03	0.0789	9.5	0.0711
687	463.536	0.0705	94.03	0.0790	9.5	0.0711
688	463.536	0.0705	94.03	0.0790	9.5	0.0711
689	463.536	0.0705	94.03	0.0790	9.5	0.0711
690	463.536	0.0706	94.03	0.0790	9.5	0.0711
691	463.536	0.0706	94.03	0.0790	9.5	0.0712
692	463.536	0.0706	94.03	0.0790	9.5	0.0712

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
693	463.536	0.0706	94.03	0.0790	9.5	0.0712
694	463.536	0.0706	94.03	0.0790	9.5	0.0712
695	463.536	0.0706	94.03	0.0791	9.5	0.0712
696	463.536	0.0706	94.03	0.0791	9.5	0.0712
697	463.536	0.0706	94.03	0.0791	9.5	0.0712
698	463.536	0.0706	94.03	0.0791	9.5	0.0712
699	463.536	0.0706	94.03	0.0791	9.5	0.0712
700	463.536	0.0706	94.03	0.0791	9.5	0.0712
701	463.536	0.0706	94.03	0.0791	9.5	0.0712
702	463.536	0.0706	94.03	0.0791	9.5	0.0712
703	463.536	0.0707	94.03	0.0791	9.5	0.0712
704	463.536	0.0707	94.03	0.0792	9.5	0.0713
705	463.536	0.0707	94.03	0.0792	9.5	0.0713
706	463.536	0.0707	94.03	0.0792	9.5	0.0713
707	463.536	0.0707	94.03	0.0792	9.5	0.0713
708	463.536	0.0707	94.03	0.0792	9.5	0.0713
709	463.536	0.0707	94.03	0.0792	9.5	0.0713
710	463.536	0.0707	94.03	0.0792	9.5	0.0713
711	463.536	0.0707	94.03	0.0792	9.5	0.0713
712	463.536	0.0707	94.03	0.0792	9.5	0.0713
713	463.536	0.0707	94.03	0.0792	9.5	0.0713
714	463.536	0.0707	94.03	0.0793	9.5	0.0713
715	463.536	0.0707	94.03	0.0793	9.5	0.0713
716	463.536	0.0708	94.03	0.0793	9.5	0.0713
717	463.536	0.0708	94.03	0.0793	9.5	0.0714
718	463.536	0.0708	94.03	0.0793	9.5	0.0714
719	463.536	0.0708	94.03	0.0793	9.5	0.0714
720	463.536	0.0708	94.03	0.0793	9.5	0.0714
721	463.536	0.0708	94.03	0.0793	9.5	0.0714
722	463.536	0.0708	94.03	0.0793	9.5	0.0714
723	463.536	0.0708	94.03	0.0793	9.5	0.0714
724	463.536	0.0708	94.03	0.0794	9.5	0.0714
725	463.536	0.0708	94.03	0.0794	9.5	0.0714
726	463.536	0.0708	94.03	0.0794	9.5	0.0714
727	463.536	0.0708	94.03	0.0794	9.5	0.0714
728	463.536	0.0708	94.03	0.0794	9.5	0.0714
729	463.536	0.0708	94.03	0.0794	9.5	0.0715
730	463.536	0.0709	94.03	0.0794	9.5	0.0715
731	463.536	0.0709	94.03	0.0794	9.5	0.0715
732	463.536	0.0709	94.03	0.0794	9.5	0.0715
733	463.536	0.0709	94.03	0.0794	9.5	0.0715

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
734	463.536	0.0709	94.03	0.0795	9.5	0.0715
735	463.536	0.0709	94.03	0.0795	9.5	0.0715
736	463.536	0.0709	94.03	0.0795	9.5	0.0715
737	463.536	0.0709	94.03	0.0795	9.5	0.0715
738	463.536	0.0709	94.03	0.0795	9.5	0.0715
739	463.536	0.0709	94.03	0.0795	9.5	0.0715
740	463.536	0.0709	94.03	0.0795	9.5	0.0715
741	463.536	0.0709	94.03	0.0795	9.5	0.0716
742	463.536	0.0709	94.03	0.0795	9.5	0.0716
743	463.536	0.0709	94.03	0.0795	9.5	0.0716
744	463.536	0.0710	94.03	0.0796	9.5	0.0716
745	463.536	0.0710	94.03	0.0796	9.5	0.0716
746	463.536	0.0710	94.03	0.0796	9.5	0.0716
747	463.536	0.0710	94.03	0.0796	9.5	0.0716
748	463.536	0.0710	94.03	0.0796	9.5	0.0716
749	463.536	0.0710	94.03	0.0796	9.5	0.0716
750	463.536	0.0710	94.03	0.0796	9.5	0.0716
751	463.536	0.0710	94.03	0.0796	9.5	0.0716
752	463.536	0.0710	94.03	0.0796	9.5	0.0716
753	463.536	0.0710	94.03	0.0796	9.5	0.0717
754	463.536	0.0710	94.03	0.0797	9.5	0.0717
755	463.536	0.0710	94.03	0.0797	9.5	0.0717
756	463.536	0.0710	94.03	0.0797	9.5	0.0717
757	463.536	0.0710	94.03	0.0797	9.5	0.0717
758	463.536	0.0711	94.03	0.0797	9.5	0.0717
759	463.536	0.0711	94.03	0.0797	9.5	0.0717
760	463.536	0.0711	94.03	0.0797	9.5	0.0717
761	463.536	0.0711	94.03	0.0797	9.5	0.0717
762	463.536	0.0711	94.03	0.0797	9.5	0.0717
763	463.536	0.0711	94.03	0.0797	9.5	0.0717
764	463.536	0.0711	94.03	0.0798	9.5	0.0717
765	463.536	0.0711	94.03	0.0798	9.5	0.0718
766	463.536	0.0711	94.03	0.0798	9.5	0.0718
767	463.536	0.0711	94.03	0.0798	9.5	0.0718
768	463.536	0.0711	94.03	0.0798	9.5	0.0718
769	463.536	0.0711	94.03	0.0798	9.5	0.0718
770	463.536	0.0711	94.03	0.0798	9.5	0.0718
771	463.536	0.0711	94.03	0.0798	9.5	0.0718
772	463.536	0.0712	94.03	0.0798	9.5	0.0718
773	463.536	0.0712	94.03	0.0798	9.5	0.0718
774	463.536	0.0712	94.03	0.0799	9.5	0.0718

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
775	463.536	0.0712	94.03	0.0799	9.5	0.0718
776	463.536	0.0712	94.03	0.0799	9.5	0.0718
777	463.536	0.0712	94.03	0.0799	9.5	0.0719
778	463.536	0.0712	94.03	0.0799	9.5	0.0719
779	463.536	0.0712	94.03	0.0799	9.5	0.0719
780	463.536	0.0712	94.03	0.0799	9.5	0.0719
781	463.536	0.0712	94.03	0.0799	9.5	0.0719
782	463.536	0.0712	94.03	0.0799	9.5	0.0719
783	463.536	0.0712	94.03	0.0799	9.5	0.0719
784	463.536	0.0712	94.03	0.0800	9.5	0.0719
785	463.536	0.0712	94.03	0.0800	9.5	0.0719
786	463.536	0.0713	94.03	0.0800	9.5	0.0719
787	463.536	0.0713	94.03	0.0800	9.5	0.0719
788	463.536	0.0713	94.03	0.0800	9.5	0.0719
789	463.536	0.0713	94.03	0.0800	9.5	0.0720
790	463.536	0.0713	94.03	0.0800	9.5	0.0720
791	463.536	0.0713	94.03	0.0800	9.5	0.0720
792	463.536	0.0713	94.03	0.0800	9.5	0.0720
793	463.536	0.0713	94.03	0.0800	9.5	0.0720
794	463.536	0.0713	94.03	0.0801	9.5	0.0720
795	463.536	0.0713	94.03	0.0801	9.5	0.0720
796	463.536	0.0713	94.03	0.0801	9.5	0.0720
797	463.536	0.0713	94.03	0.0801	9.5	0.0720
798	463.536	0.0713	94.03	0.0801	9.5	0.0720
799	463.536	0.0713	94.03	0.0801	9.5	0.0720
800	463.536	0.0713	94.03	0.0801	9.5	0.0721
801	463.536	0.0714	94.03	0.0801	9.5	0.0721
802	463.536	0.0714	94.03	0.0801	9.5	0.0721
803	463.536	0.0714	94.03	0.0801	9.5	0.0721
804	463.536	0.0714	94.03	0.0802	9.5	0.0721
805	463.536	0.0714	94.03	0.0802	9.5	0.0721
806	463.536	0.0714	94.03	0.0802	9.5	0.0721
807	463.536	0.0714	94.03	0.0802	9.5	0.0721
808	463.536	0.0714	94.03	0.0802	9.5	0.0721
809	463.536	0.0714	94.03	0.0802	9.5	0.0721
810	463.536	0.0714	94.03	0.0802	9.5	0.0721
811	463.536	0.0714	94.03	0.0802	9.5	0.0721
812	463.536	0.0714	94.03	0.0802	9.5	0.0721
813	463.536	0.0714	94.03	0.0802	9.5	0.0722
814	463.536	0.0714	94.03	0.0803	9.5	0.0722
815	463.536	0.0714	94.03	0.0803	9.5	0.0722

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
816	463.536	0.0715	94.03	0.0803	9.5	0.0722
817	463.536	0.0715	94.03	0.0803	9.5	0.0722
818	463.536	0.0715	94.03	0.0803	9.5	0.0722
819	463.536	0.0715	94.03	0.0803	9.5	0.0722
820	463.536	0.0715	94.03	0.0803	9.5	0.0722
821	463.536	0.0715	94.03	0.0803	9.5	0.0722
822	463.536	0.0715	94.03	0.0803	9.5	0.0722
823	463.536	0.0715	94.03	0.0803	9.5	0.0722
824	463.536	0.0715	94.03	0.0804	9.5	0.0722
825	463.536	0.0715	94.03	0.0804	9.5	0.0722
826	463.536	0.0715	94.03	0.0804	9.5	0.0722
827	463.536	0.0715	94.03	0.0804	9.5	0.0722
828	463.536	0.0715	94.03	0.0804	9.5	0.0722
829	463.536	0.0715	94.03	0.0804	9.5	0.0722
830	463.536	0.0715	94.03	0.0804	9.5	0.0722
831	463.536	0.0715	94.03	0.0804	9.5	0.0722
832	463.536	0.0716	94.03	0.0804	9.5	0.0722
833	463.536	0.0716	94.03	0.0804	9.5	0.0723
834	463.536	0.0716	94.03	0.0805	9.5	0.0723
835	463.536	0.0716	94.03	0.0805	9.5	0.0723
836	463.536	0.0716	94.03	0.0805	9.5	0.0723
837	463.536	0.0716	94.03	0.0805	9.5	0.0723
838	463.536	0.0716	94.03	0.0805	9.5	0.0723
839	463.536	0.0716	94.03	0.0805	9.5	0.0723
840	463.536	0.0716	94.03	0.0805	9.5	0.0723
841	463.536	0.0716	94.03	0.0805	9.5	0.0723
842	463.536	0.0716	94.03	0.0805	9.5	0.0723
843	463.536	0.0716	94.03	0.0805	9.5	0.0723
844	463.536	0.0716	94.03	0.0806	9.5	0.0723
845	463.536	0.0716	94.03	0.0806	9.5	0.0723
846	463.536	0.0716	94.03	0.0806	9.5	0.0723
847	463.536	0.0717	94.03	0.0806	9.5	0.0723
848	463.536	0.0717	94.03	0.0806	9.5	0.0723
849	463.536	0.0717	94.03	0.0806	9.5	0.0723
850	463.536	0.0717	94.03	0.0806	9.5	0.0723
851	463.536	0.0717	94.03	0.0806	9.5	0.0723
852	463.536	0.0717	94.03	0.0806	9.5	0.0724
853	463.536	0.0717	94.03	0.0806	9.5	0.0724
854	463.536	0.0717	94.03	0.0806	9.5	0.0724
855	463.536	0.0717	94.03	0.0807	9.5	0.0724
856	463.536	0.0717	94.03	0.0807	9.5	0.0724

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
857	463.536	0.0717	94.03	0.0807	9.5	0.0724
858	463.536	0.0717	94.03	0.0807	9.5	0.0724
859	463.536	0.0717	94.03	0.0807	9.5	0.0724
860	463.536	0.0717	94.03	0.0807	9.5	0.0724
861	463.536	0.0717	94.03	0.0807	9.5	0.0724
862	463.536	0.0717	94.03	0.0807	9.5	0.0724
863	463.536	0.0718	94.03	0.0807	9.5	0.0724
864	463.536	0.0718	94.03	0.0807	9.5	0.0724
865	463.536	0.0718	94.03	0.0808	9.5	0.0724
866	463.536	0.0718	94.03	0.0808	9.5	0.0724
867	463.536	0.0718	94.03	0.0808	9.5	0.0724
868	463.536	0.0718	94.03	0.0808	9.5	0.0724
869	463.536	0.0718	94.03	0.0808	9.5	0.0724
870	463.536	0.0718	94.03	0.0808	9.5	0.0724
871	463.536	0.0718	94.03	0.0808	9.5	0.0725
872	463.536	0.0718	94.03	0.0808	9.5	0.0725
873	463.536	0.0718	94.03	0.0808	9.5	0.0725
874	463.536	0.0718	94.03	0.0808	9.5	0.0725
875	463.536	0.0718	94.03	0.0809	9.5	0.0725
876	463.536	0.0718	94.03	0.0809	9.5	0.0725
877	463.536	0.0718	94.03	0.0809	9.5	0.0725
878	463.536	0.0718	94.03	0.0809	9.5	0.0725
879	463.536	0.0719	94.03	0.0809	9.5	0.0725
880	463.536	0.0719	94.03	0.0809	9.5	0.0725
881	463.536	0.0719	94.03	0.0809	9.5	0.0725
882	463.536	0.0719	94.03	0.0809	9.5	0.0725
883	463.536	0.0719	94.03	0.0809	9.5	0.0725
884	463.536	0.0719	94.03	0.0809	9.5	0.0725
885	463.536	0.0719	94.03	0.0810	9.5	0.0725
886	463.536	0.0719	94.03	0.0810	9.5	0.0725
887	463.536	0.0719	94.03	0.0810	9.5	0.0725
888	463.536	0.0719	94.03	0.0810	9.5	0.0725
889	463.536	0.0719	94.03	0.0810	9.5	0.0726
890	463.536	0.0719	94.03	0.0810	9.5	0.0726
891	463.536	0.0719	94.03	0.0810	9.5	0.0726
892	463.536	0.0719	94.03	0.0810	9.5	0.0726
893	463.536	0.0719	94.03	0.0810	9.5	0.0726
894	463.536	0.0719	94.03	0.0810	9.5	0.0726
895	463.536	0.0719	94.03	0.0811	9.5	0.0726
896	463.536	0.0720	94.03	0.0811	9.5	0.0726
897	463.536	0.0720	94.03	0.0811	9.5	0.0726

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
898	463.536	0.0720	94.03	0.0811	9.5	0.0726
899	463.536	0.0720	94.03	0.0811	9.5	0.0726
900	463.536	0.0720	94.03	0.0811	9.5	0.0726
901	463.536	0.0720	94.03	0.0811	9.5	0.0726
902	463.536	0.0720	94.03	0.0811	9.5	0.0726
903	463.536	0.0720	94.03	0.0811	9.5	0.0726
904	463.536	0.0720	94.03	0.0811	9.5	0.0726
905	463.536	0.0720	94.03	0.0812	9.5	0.0726
906	463.536	0.0720	94.03	0.0812	9.5	0.0726
907	463.536	0.0720	94.03	0.0812	9.5	0.0727
908	463.536	0.0720	94.03	0.0812	9.5	0.0727
909	463.536	0.0720	94.03	0.0812	9.5	0.0727
910	463.536	0.0720	94.03	0.0812	9.5	0.0727
911	463.536	0.0720	94.03	0.0812	9.5	0.0727
912	463.536	0.0720	94.03	0.0812	9.5	0.0727
913	463.536	0.0721	94.03	0.0812	9.5	0.0727
914	463.536	0.0721	94.03	0.0812	9.5	0.0727
915	463.536	0.0721	94.03	0.0813	9.5	0.0727
916	463.536	0.0721	94.03	0.0813	9.5	0.0727
917	463.536	0.0721	94.03	0.0813	9.5	0.0727
918	463.536	0.0721	94.03	0.0813	9.5	0.0727
919	463.536	0.0721	94.03	0.0813	9.5	0.0727
920	463.536	0.0721	94.03	0.0813	9.5	0.0727
921	463.536	0.0721	94.03	0.0813	9.5	0.0727
922	463.536	0.0721	94.03	0.0813	9.5	0.0727
923	463.536	0.0721	94.03	0.0813	9.5	0.0727
924	463.536	0.0721	94.03	0.0813	9.5	0.0727
925	463.536	0.0721	94.03	0.0814	9.5	0.0728
926	463.536	0.0721	94.03	0.0814	9.5	0.0728
927	463.536	0.0721	94.03	0.0814	9.5	0.0728
928	463.536	0.0721	94.03	0.0814	9.5	0.0728
929	463.536	0.0721	94.03	0.0814	9.5	0.0728
930	463.536	0.0722	94.03	0.0814	9.5	0.0728
931	463.536	0.0722	94.03	0.0814	9.5	0.0728
932	463.536	0.0722	94.03	0.0814	9.5	0.0728
933	463.536	0.0722	94.03	0.0814	9.5	0.0728
934	463.536	0.0722	94.03	0.0814	9.5	0.0728
935	463.536	0.0722	94.03	0.0814	9.5	0.0728
936	463.536	0.0722	94.03	0.0815	9.5	0.0728
937	463.536	0.0722	94.03	0.0815	9.5	0.0728
938	463.536	0.0722	94.03	0.0815	9.5	0.0728

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
939	463.536	0.0722	94.03	0.0815	9.5	0.0728
940	463.536	0.0722	94.03	0.0815	9.5	0.0728
941	463.536	0.0722	94.03	0.0815	9.5	0.0728
942	463.536	0.0722	94.03	0.0815	9.5	0.0728
943	463.536	0.0722	94.03	0.0815	9.5	0.0729
944	463.536	0.0722	94.03	0.0815	9.5	0.0729
945	463.536	0.0722	94.03	0.0815	9.5	0.0729
946	463.536	0.0722	94.03	0.0816	9.5	0.0729
947	463.536	0.0723	94.03	0.0816	9.5	0.0729
948	463.536	0.0723	94.03	0.0816	9.5	0.0729
949	463.536	0.0723	94.03	0.0816	9.5	0.0729
950	463.536	0.0723	94.03	0.0816	9.5	0.0729
951	463.536	0.0723	94.03	0.0816	9.5	0.0729
952	463.536	0.0723	94.03	0.0816	9.5	0.0729
953	463.536	0.0723	94.03	0.0816	9.5	0.0729
954	463.536	0.0723	94.03	0.0816	9.5	0.0729
955	463.536	0.0723	94.03	0.0816	9.5	0.0729
956	463.536	0.0723	94.03	0.0817	9.5	0.0729
957	463.536	0.0723	94.03	0.0817	9.5	0.0729
958	463.536	0.0723	94.03	0.0817	9.5	0.0729
959	463.536	0.0723	94.03	0.0817	9.5	0.0729
960	463.536	0.0723	94.03	0.0817	9.5	0.0729
961	463.536	0.0723	94.03	0.0817	9.5	0.0730
962	463.536	0.0723	94.03	0.0817	9.5	0.0730
963	463.536	0.0723	94.03	0.0817	9.5	0.0730
964	463.536	0.0723	94.03	0.0817	9.5	0.0730
965	463.536	0.0724	94.03	0.0817	9.5	0.0730
966	463.536	0.0724	94.03	0.0818	9.5	0.0730
967	463.536	0.0724	94.03	0.0818	9.5	0.0730
968	463.536	0.0724	94.03	0.0818	9.5	0.0730
969	463.536	0.0724	94.03	0.0818	9.5	0.0730
970	463.536	0.0724	94.03	0.0818	9.5	0.0730
971	463.536	0.0724	94.03	0.0818	9.5	0.0730
972	463.536	0.0724	94.03	0.0818	9.5	0.0730
973	463.536	0.0724	94.03	0.0818	9.5	0.0730
974	463.536	0.0724	94.03	0.0818	9.5	0.0730
975	463.536	0.0724	94.03	0.0818	9.5	0.0730
976	463.536	0.0724	94.03	0.0819	9.5	0.0730
977	463.536	0.0724	94.03	0.0819	9.5	0.0730
978	463.536	0.0724	94.03	0.0819	9.5	0.0731
979	463.536	0.0724	94.03	0.0819	9.5	0.0731

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
980	463.536	0.0724	94.03	0.0819	9.5	0.0731
981	463.536	0.0724	94.03	0.0819	9.5	0.0731
982	463.536	0.0724	94.03	0.0819	9.5	0.0731
983	463.536	0.0725	94.03	0.0819	9.5	0.0731
984	463.536	0.0725	94.03	0.0819	9.5	0.0731
985	463.536	0.0725	94.03	0.0819	9.5	0.0731
986	463.536	0.0725	94.03	0.0820	9.5	0.0731
987	463.536	0.0725	94.03	0.0820	9.5	0.0731
988	463.536	0.0725	94.03	0.0820	9.5	0.0731
989	463.536	0.0725	94.03	0.0820	9.5	0.0731
990	463.536	0.0725	94.03	0.0820	9.5	0.0731
991	463.536	0.0725	94.03	0.0820	9.5	0.0731
992	463.536	0.0725	94.03	0.0820	9.5	0.0731
993	463.536	0.0725	94.03	0.0820	9.5	0.0731
994	463.536	0.0725	94.03	0.0820	9.5	0.0731
995	463.536	0.0725	94.03	0.0820	9.5	0.0732
996	463.536	0.0725	94.03	0.0820	9.5	0.0732
997	463.536	0.0725	94.03	0.0821	9.5	0.0732
998	463.536	0.0725	94.03	0.0821	9.5	0.0732
999	463.536	0.0725	94.03	0.0821	9.5	0.0732
1000	463.536	0.0725	94.03	0.0821	9.5	0.0732
1001	463.536	0.0725	94.03	0.0821	9.5	0.0732
1002	463.536	0.0726	94.03	0.0821	9.5	0.0732
1003	463.536	0.0726	94.03	0.0821	9.5	0.0732
1004	463.536	0.0726	94.03	0.0821	9.5	0.0732
1005	463.536	0.0726	94.03	0.0821	9.5	0.0732
1006	463.536	0.0726	94.03	0.0821	9.5	0.0732
1007	463.536	0.0726	94.03	0.0822	9.5	0.0732
1008	463.536	0.0726	94.03	0.0822	9.5	0.0732
1009	463.536	0.0726	94.03	0.0822	9.5	0.0732
1010	463.536	0.0726	94.03	0.0822	9.5	0.0732
1011	463.536	0.0726	94.03	0.0822	9.5	0.0732
1012	463.536	0.0726	94.03	0.0822	9.5	0.0733
1013	463.536	0.0726	94.03	0.0822	9.5	0.0733
1014	463.536	0.0726	94.03	0.0822	9.5	0.0733
1015	463.536	0.0726	94.03	0.0822	9.5	0.0733
1016	463.536	0.0726	94.03	0.0822	9.5	0.0733
1017	463.536	0.0726	94.03	0.0823	9.5	0.0733
1018	463.536	0.0726	94.03	0.0823	9.5	0.0733
1019	463.536	0.0726	94.03	0.0823	9.5	0.0733
1020	463.536	0.0727	94.03	0.0823	9.5	0.0733

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1021	463.536	0.0727	94.03	0.0823	9.5	0.0733
1022	463.536	0.0727	94.03	0.0823	9.5	0.0733
1023	463.536	0.0727	94.03	0.0823	9.5	0.0733
1024	463.536	0.0727	94.03	0.0823	9.5	0.0733
1025	463.536	0.0727	94.03	0.0823	9.5	0.0733
1026	463.536	0.0727	94.03	0.0823	9.5	0.0733
1027	463.536	0.0727	94.03	0.0824	9.5	0.0733
1028	463.536	0.0727	94.03	0.0824	9.5	0.0734
1029	463.536	0.0727	94.03	0.0824	9.5	0.0734
1030	463.536	0.0727	94.03	0.0824	9.5	0.0734
1031	463.536	0.0727	94.03	0.0824	9.5	0.0734
1032	463.536	0.0727	94.03	0.0824	9.5	0.0734
1033	463.536	0.0727	94.03	0.0824	9.5	0.0734
1034	463.536	0.0727	94.03	0.0824	9.5	0.0734
1035	463.536	0.0727	94.03	0.0824	9.5	0.0734
1036	463.536	0.0727	94.03	0.0824	9.5	0.0734
1037	463.536	0.0727	94.03	0.0824	9.5	0.0734
1038	463.536	0.0727	94.03	0.0825	9.5	0.0734
1039	463.536	0.0728	94.03	0.0825	9.5	0.0734
1040	463.536	0.0728	94.03	0.0825	9.5	0.0734
1041	463.536	0.0728	94.03	0.0825	9.5	0.0734
1042	463.536	0.0728	94.03	0.0825	9.5	0.0734
1043	463.536	0.0728	94.03	0.0825	9.5	0.0734
1044	463.536	0.0728	94.03	0.0825	9.5	0.0734
1045	463.536	0.0728	94.03	0.0825	9.5	0.0735
1046	463.536	0.0728	94.03	0.0825	9.5	0.0735
1047	463.536	0.0728	94.03	0.0825	9.5	0.0735
1048	463.536	0.0728	94.03	0.0826	9.5	0.0735
1049	463.536	0.0728	94.03	0.0826	9.5	0.0735
1050	463.536	0.0728	94.03	0.0826	9.5	0.0735
1051	463.536	0.0728	94.03	0.0826	9.5	0.0735
1052	463.536	0.0728	94.03	0.0826	9.5	0.0735
1053	463.536	0.0728	94.03	0.0826	9.5	0.0735
1054	463.536	0.0728	94.03	0.0826	9.5	0.0735
1055	463.536	0.0728	94.03	0.0826	9.5	0.0735
1056	463.536	0.0728	94.03	0.0826	9.5	0.0735
1057	463.536	0.0728	94.03	0.0826	9.5	0.0735
1058	463.536	0.0728	94.03	0.0827	9.5	0.0735
1059	463.536	0.0729	94.03	0.0827	9.5	0.0735
1060	463.536	0.0729	94.03	0.0827	9.5	0.0735
1061	463.536	0.0729	94.03	0.0827	9.5	0.0736

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1062	463.536	0.0729	94.03	0.0827	9.5	0.0736
1063	463.536	0.0729	94.03	0.0827	9.5	0.0736
1064	463.536	0.0729	94.03	0.0827	9.5	0.0736
1065	463.536	0.0729	94.03	0.0827	9.5	0.0736
1066	463.536	0.0729	94.03	0.0827	9.5	0.0736
1067	463.536	0.0729	94.03	0.0827	9.5	0.0736
1068	463.536	0.0729	94.03	0.0827	9.5	0.0736
1069	463.536	0.0729	94.03	0.0828	9.5	0.0736
1070	463.536	0.0729	94.03	0.0828	9.5	0.0736
1071	463.536	0.0729	94.03	0.0828	9.5	0.0736
1072	463.536	0.0729	94.03	0.0828	9.5	0.0736
1073	463.536	0.0729	94.03	0.0828	9.5	0.0736
1074	463.536	0.0729	94.03	0.0828	9.5	0.0736
1075	463.536	0.0729	94.03	0.0828	9.5	0.0736
1076	463.536	0.0729	94.03	0.0828	9.5	0.0736
1077	463.536	0.0729	94.03	0.0828	9.5	0.0737
1078	463.536	0.0730	94.03	0.0828	9.5	0.0737
1079	463.536	0.0730	94.03	0.0829	9.5	0.0737
1080	463.536	0.0730	94.03	0.0829	9.5	0.0737
1081	463.536	0.0730	94.03	0.0829	9.5	0.0737
1082	463.536	0.0730	94.03	0.0829	9.5	0.0737
1083	463.536	0.0730	94.03	0.0829	9.5	0.0737
1084	463.536	0.0730	94.03	0.0829	9.5	0.0737
1085	463.536	0.0730	94.03	0.0829	9.5	0.0737
1086	463.536	0.0730	94.03	0.0829	9.5	0.0737
1087	463.536	0.0730	94.03	0.0829	9.5	0.0737
1088	463.536	0.0730	94.03	0.0829	9.5	0.0737
1089	463.536	0.0730	94.03	0.0830	9.5	0.0737
1090	463.536	0.0730	94.03	0.0830	9.5	0.0737
1091	463.536	0.0730	94.03	0.0830	9.5	0.0737
1092	463.536	0.0730	94.03	0.0830	9.5	0.0737
1093	463.536	0.0730	94.03	0.0830	9.5	0.0738
1094	463.536	0.0730	94.03	0.0830	9.5	0.0738
1095	463.536	0.0730	94.03	0.0830	9.5	0.0738
1096	463.536	0.0730	94.03	0.0830	9.5	0.0738
1097	463.536	0.0730	94.03	0.0830	9.5	0.0738
1098	463.536	0.0730	94.03	0.0830	9.5	0.0738
1099	463.536	0.0731	94.03	0.0831	9.5	0.0738
1100	463.536	0.0731	94.03	0.0831	9.5	0.0738
1101	463.536	0.0731	94.03	0.0831	9.5	0.0738
1102	463.536	0.0731	94.03	0.0831	9.5	0.0738

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1103	463.536	0.0731	94.03	0.0831	9.5	0.0738
1104	463.536	0.0731	94.03	0.0831	9.5	0.0738
1105	463.536	0.0731	94.03	0.0831	9.5	0.0738
1106	463.536	0.0731	94.03	0.0831	9.5	0.0738
1107	463.536	0.0731	94.03	0.0831	9.5	0.0738
1108	463.536	0.0731	94.03	0.0831	9.5	0.0739
1109	463.536	0.0731	94.03	0.0831	9.5	0.0739
1110	463.536	0.0731	94.03	0.0832	9.5	0.0739
1111	463.536	0.0731	94.03	0.0832	9.5	0.0739
1112	463.536	0.0731	94.03	0.0832	9.5	0.0739
1113	463.536	0.0731	94.03	0.0832	9.5	0.0739
1114	463.536	0.0731	94.03	0.0832	9.5	0.0739
1115	463.536	0.0731	94.03	0.0832	9.5	0.0739
1116	463.536	0.0731	94.03	0.0832	9.5	0.0739
1117	463.536	0.0731	94.03	0.0832	9.5	0.0739
1118	463.536	0.0731	94.03	0.0832	9.5	0.0739
1119	463.536	0.0732	94.03	0.0832	9.5	0.0739
1120	463.536	0.0732	94.03	0.0833	9.5	0.0739
1121	463.536	0.0732	94.03	0.0833	9.5	0.0739
1122	463.536	0.0732	94.03	0.0833	9.5	0.0739
1123	463.536	0.0732	94.03	0.0833	9.5	0.0739
1124	463.536	0.0732	94.03	0.0833	9.5	0.0740
1125	463.536	0.0732	94.03	0.0833	9.5	0.0740
1126	463.536	0.0732	94.03	0.0833	9.5	0.0740
1127	463.536	0.0732	94.03	0.0833	9.5	0.0740
1128	463.536	0.0732	94.03	0.0833	9.5	0.0740
1129	463.536	0.0732	94.03	0.0833	9.5	0.0740
1130	463.536	0.0732	94.03	0.0834	9.5	0.0740
1131	463.536	0.0732	94.03	0.0834	9.5	0.0740
1132	463.536	0.0732	94.03	0.0834	9.5	0.0740
1133	463.536	0.0732	94.03	0.0834	9.5	0.0740
1134	463.536	0.0732	94.03	0.0834	9.5	0.0740
1135	463.536	0.0732	94.03	0.0834	9.5	0.0740
1136	463.536	0.0732	94.03	0.0834	9.5	0.0740
1137	463.536	0.0732	94.03	0.0834	9.5	0.0740
1138	463.536	0.0732	94.03	0.0834	9.5	0.0740
1139	463.536	0.0732	94.03	0.0834	9.5	0.0741
1140	463.536	0.0733	94.03	0.0834	9.5	0.0741
1141	463.536	0.0733	94.03	0.0835	9.5	0.0741
1142	463.536	0.0733	94.03	0.0835	9.5	0.0741
1143	463.536	0.0733	94.03	0.0835	9.5	0.0741

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1144	463.536	0.0733	94.03	0.0835	9.5	0.0741
1145	463.536	0.0733	94.03	0.0835	9.5	0.0741
1146	463.536	0.0733	94.03	0.0835	9.5	0.0741
1147	463.536	0.0733	94.03	0.0835	9.5	0.0741
1148	463.536	0.0733	94.03	0.0835	9.5	0.0741
1149	463.536	0.0733	94.03	0.0835	9.5	0.0741
1150	463.536	0.0733	94.03	0.0835	9.5	0.0741
1151	463.536	0.0733	94.03	0.0836	9.5	0.0741
1152	463.536	0.0733	94.03	0.0836	9.5	0.0741
1153	463.536	0.0733	94.03	0.0836	9.5	0.0741
1154	463.536	0.0733	94.03	0.0836	9.5	0.0741
1155	463.536	0.0733	94.03	0.0836	9.5	0.0742
1156	463.536	0.0733	94.03	0.0836	9.5	0.0742
1157	463.536	0.0733	94.03	0.0836	9.5	0.0742
1158	463.536	0.0733	94.03	0.0836	9.5	0.0742
1159	463.536	0.0733	94.03	0.0836	9.5	0.0742
1160	463.536	0.0733	94.03	0.0836	9.5	0.0742
1161	463.536	0.0734	94.03	0.0836	9.5	0.0742
1162	463.536	0.0734	94.03	0.0837	9.5	0.0742
1163	463.536	0.0734	94.03	0.0837	9.5	0.0742
1164	463.536	0.0734	94.03	0.0837	9.5	0.0742
1165	463.536	0.0734	94.03	0.0837	9.5	0.0742
1166	463.536	0.0734	94.03	0.0837	9.5	0.0742
1167	463.536	0.0734	94.03	0.0837	9.5	0.0742
1168	463.536	0.0734	94.03	0.0837	9.5	0.0742
1169	463.536	0.0734	94.03	0.0837	9.5	0.0742
1170	463.536	0.0734	94.03	0.0837	9.5	0.0743
1171	463.536	0.0734	94.03	0.0837	9.5	0.0743
1172	463.536	0.0734	94.03	0.0838	9.5	0.0743
1173	463.536	0.0734	94.03	0.0838	9.5	0.0743
1174	463.536	0.0734	94.03	0.0838	9.5	0.0743
1175	463.536	0.0734	94.03	0.0838	9.5	0.0743
1176	463.536	0.0734	94.03	0.0838	9.5	0.0743
1177	463.536	0.0734	94.03	0.0838	9.5	0.0743
1178	463.536	0.0734	94.03	0.0838	9.5	0.0743
1179	463.536	0.0734	94.03	0.0838	9.5	0.0743
1180	463.536	0.0734	94.03	0.0838	9.5	0.0743
1181	463.536	0.0734	94.03	0.0838	9.5	0.0743
1182	463.536	0.0734	94.03	0.0839	9.5	0.0743
1183	463.536	0.0735	94.03	0.0839	9.5	0.0743
1184	463.536	0.0735	94.03	0.0839	9.5	0.0743

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1185	463.536	0.0735	94.03	0.0839	9.5	0.0744
1186	463.536	0.0735	94.03	0.0839	9.5	0.0744
1187	463.536	0.0735	94.03	0.0839	9.5	0.0744
1188	463.536	0.0735	94.03	0.0839	9.5	0.0744
1189	463.536	0.0735	94.03	0.0839	9.5	0.0744
1190	463.536	0.0735	94.03	0.0839	9.5	0.0744
1191	463.536	0.0735	94.03	0.0839	9.5	0.0744
1192	463.536	0.0735	94.03	0.0839	9.5	0.0744
1193	463.536	0.0735	94.03	0.0840	9.5	0.0744
1194	463.536	0.0735	94.03	0.0840	9.5	0.0744
1195	463.536	0.0735	94.03	0.0840	9.5	0.0744
1196	463.536	0.0735	94.03	0.0840	9.5	0.0744
1197	463.536	0.0735	94.03	0.0840	9.5	0.0744
1198	463.536	0.0735	94.03	0.0840	9.5	0.0744
1199	463.536	0.0735	94.03	0.0840	9.5	0.0744
1200	463.536	0.0735	94.03	0.0840	9.5	0.0745
1201	463.536	0.0735	94.03	0.0840	9.5	0.0745
1202	463.536	0.0735	94.03	0.0840	9.5	0.0745
1203	463.536	0.0735	94.03	0.0841	9.5	0.0745
1204	463.536	0.0736	94.03	0.0841	9.5	0.0745
1205	463.536	0.0736	94.03	0.0841	9.5	0.0745
1206	463.536	0.0736	94.03	0.0841	9.5	0.0745
1207	463.536	0.0736	94.03	0.0841	9.5	0.0745
1208	463.536	0.0736	94.03	0.0841	9.5	0.0745
1209	463.536	0.0736	94.03	0.0841	9.5	0.0745
1210	463.536	0.0736	94.03	0.0841	9.5	0.0745
1211	463.536	0.0736	94.03	0.0841	9.5	0.0745
1212	463.536	0.0736	94.03	0.0841	9.5	0.0745
1213	463.536	0.0736	94.03	0.0841	9.5	0.0745
1214	463.536	0.0736	94.03	0.0842	9.5	0.0746
1215	463.536	0.0736	94.03	0.0842	9.5	0.0746
1216	463.536	0.0736	94.03	0.0842	9.5	0.0746
1217	463.536	0.0736	94.03	0.0842	9.5	0.0746
1218	463.536	0.0736	94.03	0.0842	9.5	0.0746
1219	463.536	0.0736	94.03	0.0842	9.5	0.0746
1220	463.536	0.0736	94.03	0.0842	9.5	0.0746
1221	463.536	0.0736	94.03	0.0842	9.5	0.0746
1222	463.536	0.0736	94.03	0.0842	9.5	0.0746
1223	463.536	0.0736	94.03	0.0842	9.5	0.0746
1224	463.536	0.0736	94.03	0.0843	9.5	0.0746
1225	463.536	0.0736	94.03	0.0843	9.5	0.0746

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1226	463.536	0.0736	94.03	0.0843	9.5	0.0746
1227	463.536	0.0737	94.03	0.0843	9.5	0.0746
1228	463.536	0.0737	94.03	0.0843	9.5	0.0746
1229	463.536	0.0737	94.03	0.0843	9.5	0.0747
1230	463.536	0.0737	94.03	0.0843	9.5	0.0747
1231	463.536	0.0737	94.03	0.0843	9.5	0.0747
1232	463.536	0.0737	94.03	0.0843	9.5	0.0747
1233	463.536	0.0737	94.03	0.0843	9.5	0.0747
1234	463.536	0.0737	94.03	0.0843	9.5	0.0747
1235	463.536	0.0737	94.03	0.0844	9.5	0.0747
1236	463.536	0.0737	94.03	0.0844	9.5	0.0747
1237	463.536	0.0737	94.03	0.0844	9.5	0.0747
1238	463.536	0.0737	94.03	0.0844	9.5	0.0747
1239	463.536	0.0737	94.03	0.0844	9.5	0.0747
1240	463.536	0.0737	94.03	0.0844	9.5	0.0747
1241	463.536	0.0737	94.03	0.0844	9.5	0.0747
1242	463.536	0.0737	94.03	0.0844	9.5	0.0747
1243	463.536	0.0737	94.03	0.0844	9.5	0.0748
1244	463.536	0.0737	94.03	0.0844	9.5	0.0748
1245	463.536	0.0737	94.03	0.0845	9.5	0.0748
1246	463.536	0.0737	94.03	0.0845	9.5	0.0748
1247	463.536	0.0737	94.03	0.0845	9.5	0.0748
1248	463.536	0.0737	94.03	0.0845	9.5	0.0748
1249	463.536	0.0738	94.03	0.0845	9.5	0.0748
1250	463.536	0.0738	94.03	0.0845	9.5	0.0748
1251	463.536	0.0738	94.03	0.0845	9.5	0.0748
1252	463.536	0.0738	94.03	0.0845	9.5	0.0748
1253	463.536	0.0738	94.03	0.0845	9.5	0.0748
1254	463.536	0.0738	94.03	0.0845	9.5	0.0748
1255	463.536	0.0738	94.03	0.0846	9.5	0.0748
1256	463.536	0.0738	94.03	0.0846	9.5	0.0748
1257	463.536	0.0738	94.03	0.0846	9.5	0.0748
1258	463.536	0.0738	94.03	0.0846	9.5	0.0749
1259	463.536	0.0738	94.03	0.0846	9.5	0.0749
1260	463.536	0.0738	94.03	0.0846	9.5	0.0749
1261	463.536	0.0738	94.03	0.0846	9.5	0.0749
1262	463.536	0.0738	94.03	0.0846	9.5	0.0749
1263	463.536	0.0738	94.03	0.0846	9.5	0.0749
1264	463.536	0.0738	94.03	0.0846	9.5	0.0749
1265	463.536	0.0738	94.03	0.0846	9.5	0.0749
1266	463.536	0.0738	94.03	0.0847	9.5	0.0749

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1267	463.536	0.0738	94.03	0.0847	9.5	0.0749
1268	463.536	0.0738	94.03	0.0847	9.5	0.0749
1269	463.536	0.0738	94.03	0.0847	9.5	0.0749
1270	463.536	0.0738	94.03	0.0847	9.5	0.0749
1271	463.536	0.0738	94.03	0.0847	9.5	0.0749
1272	463.536	0.0739	94.03	0.0847	9.5	0.0750
1273	463.536	0.0739	94.03	0.0847	9.5	0.0750
1274	463.536	0.0739	94.03	0.0847	9.5	0.0750
1275	463.536	0.0739	94.03	0.0847	9.5	0.0750
1276	463.536	0.0739	94.03	0.0848	9.5	0.0750
1277	463.536	0.0739	94.03	0.0848	9.5	0.0750
1278	463.536	0.0739	94.03	0.0848	9.5	0.0750
1279	463.536	0.0739	94.03	0.0848	9.5	0.0750
1280	463.536	0.0739	94.03	0.0848	9.5	0.0750
1281	463.536	0.0739	94.03	0.0848	9.5	0.0750
1282	463.536	0.0739	94.03	0.0848	9.5	0.0750
1283	463.536	0.0739	94.03	0.0848	9.5	0.0750
1284	463.536	0.0739	94.03	0.0848	9.5	0.0750
1285	463.536	0.0739	94.03	0.0848	9.5	0.0750
1286	463.536	0.0739	94.03	0.0848	9.5	0.0751
1287	463.536	0.0739	94.03	0.0849	9.5	0.0751
1288	463.536	0.0739	94.03	0.0849	9.5	0.0751
1289	463.536	0.0739	94.03	0.0849	9.5	0.0751
1290	463.536	0.0739	94.03	0.0849	9.5	0.0751
1291	463.536	0.0739	94.03	0.0849	9.5	0.0751
1292	463.536	0.0739	94.03	0.0849	9.5	0.0751
1293	463.536	0.0739	94.03	0.0849	9.5	0.0751
1294	463.536	0.0739	94.03	0.0849	9.5	0.0751
1295	463.536	0.0739	94.03	0.0849	9.5	0.0751
1296	463.536	0.0740	94.03	0.0849	9.5	0.0751
1297	463.536	0.0740	94.03	0.0850	9.5	0.0751
1298	463.536	0.0740	94.03	0.0850	9.5	0.0751
1299	463.536	0.0740	94.03	0.0850	9.5	0.0751
1300	463.536	0.0740	94.03	0.0850	9.5	0.0752
1301	463.536	0.0740	94.03	0.0850	9.5	0.0752
1302	463.536	0.0740	94.03	0.0850	9.5	0.0752
1303	463.536	0.0740	94.03	0.0850	9.5	0.0752
1304	463.536	0.0740	94.03	0.0850	9.5	0.0752
1305	463.536	0.0740	94.03	0.0850	9.5	0.0752
1306	463.536	0.0740	94.03	0.0850	9.5	0.0752
1307	463.536	0.0740	94.03	0.0850	9.5	0.0752

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1308	463.536	0.0740	94.03	0.0851	9.5	0.0752
1309	463.536	0.0740	94.03	0.0851	9.5	0.0752
1310	463.536	0.0740	94.03	0.0851	9.5	0.0752
1311	463.536	0.0740	94.03	0.0851	9.5	0.0752
1312	463.536	0.0740	94.03	0.0851	9.5	0.0752
1313	463.536	0.0740	94.03	0.0851	9.5	0.0752
1314	463.536	0.0740	94.03	0.0851	9.5	0.0753
1315	463.536	0.0740	94.03	0.0851	9.5	0.0753
1316	463.536	0.0740	94.03	0.0851	9.5	0.0753
1317	463.536	0.0740	94.03	0.0851	9.5	0.0753
1318	463.536	0.0740	94.03	0.0852	9.5	0.0753
1319	463.536	0.0741	94.03	0.0852	9.5	0.0753
1320	463.536	0.0741	94.03	0.0852	9.5	0.0753
1321	463.536	0.0741	94.03	0.0852	9.5	0.0753
1322	463.536	0.0741	94.03	0.0852	9.5	0.0753
1323	463.536	0.0741	94.03	0.0852	9.5	0.0753
1324	463.536	0.0741	94.03	0.0852	9.5	0.0753
1325	463.536	0.0741	94.03	0.0852	9.5	0.0753
1326	463.536	0.0741	94.03	0.0852	9.5	0.0753
1327	463.536	0.0741	94.03	0.0852	9.5	0.0753
1328	463.536	0.0741	94.03	0.0852	9.5	0.0754
1329	463.536	0.0741	94.03	0.0853	9.5	0.0754
1330	463.536	0.0741	94.03	0.0853	9.5	0.0754
1331	463.536	0.0741	94.03	0.0853	9.5	0.0754
1332	463.536	0.0741	94.03	0.0853	9.5	0.0754
1333	463.536	0.0741	94.03	0.0853	9.5	0.0754
1334	463.536	0.0741	94.03	0.0853	9.5	0.0754
1335	463.536	0.0741	94.03	0.0853	9.5	0.0754
1336	463.536	0.0741	94.03	0.0853	9.5	0.0754
1337	463.536	0.0741	94.03	0.0853	9.5	0.0754
1338	463.536	0.0741	94.03	0.0853	9.5	0.0754
1339	463.536	0.0741	94.03	0.0853	9.5	0.0754
1340	463.536	0.0741	94.03	0.0854	9.5	0.0754
1341	463.536	0.0741	94.03	0.0854	9.5	0.0754
1342	463.536	0.0741	94.03	0.0854	9.5	0.0755
1343	463.536	0.0741	94.03	0.0854	9.5	0.0755
1344	463.536	0.0742	94.03	0.0854	9.5	0.0755
1345	463.536	0.0742	94.03	0.0854	9.5	0.0755
1346	463.536	0.0742	94.03	0.0854	9.5	0.0755
1347	463.536	0.0742	94.03	0.0854	9.5	0.0755
1348	463.536	0.0742	94.03	0.0854	9.5	0.0755

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1349	463.536	0.0742	94.03	0.0854	9.5	0.0755
1350	463.536	0.0742	94.03	0.0855	9.5	0.0755
1351	463.536	0.0742	94.03	0.0855	9.5	0.0755
1352	463.536	0.0742	94.03	0.0855	9.5	0.0755
1353	463.536	0.0742	94.03	0.0855	9.5	0.0755
1354	463.536	0.0742	94.03	0.0855	9.5	0.0755
1355	463.536	0.0742	94.03	0.0855	9.5	0.0756
1356	463.536	0.0742	94.03	0.0855	9.5	0.0756
1357	463.536	0.0742	94.03	0.0855	9.5	0.0756
1358	463.536	0.0742	94.03	0.0855	9.5	0.0756
1359	463.536	0.0742	94.03	0.0855	9.5	0.0756
1360	463.536	0.0742	94.03	0.0855	9.5	0.0756
1361	463.536	0.0742	94.03	0.0856	9.5	0.0756
1362	463.536	0.0742	94.03	0.0856	9.5	0.0756
1363	463.536	0.0742	94.03	0.0856	9.5	0.0756
1364	463.536	0.0742	94.03	0.0856	9.5	0.0756
1365	463.536	0.0742	94.03	0.0856	9.5	0.0756
1366	463.536	0.0742	94.03	0.0856	9.5	0.0756
1367	463.536	0.0742	94.03	0.0856	9.5	0.0756
1368	463.536	0.0743	94.03	0.0856	9.5	0.0756
1369	463.536	0.0743	94.03	0.0856	9.5	0.0757
1370	463.536	0.0743	94.03	0.0856	9.5	0.0757
1371	463.536	0.0743	94.03	0.0857	9.5	0.0757
1372	463.536	0.0743	94.03	0.0857	9.5	0.0757
1373	463.536	0.0743	94.03	0.0857	9.5	0.0757
1374	463.536	0.0743	94.03	0.0857	9.5	0.0757
1375	463.536	0.0743	94.03	0.0857	9.5	0.0757
1376	463.536	0.0743	94.03	0.0857	9.5	0.0757
1377	463.536	0.0743	94.03	0.0857	9.5	0.0757
1378	463.536	0.0743	94.03	0.0857	9.5	0.0757
1379	463.536	0.0743	94.03	0.0857	9.5	0.0757
1380	463.536	0.0743	94.03	0.0857	9.5	0.0757
1381	463.536	0.0743	94.03	0.0857	9.5	0.0757
1382	463.536	0.0743	94.03	0.0858	9.5	0.0757
1383	463.536	0.0743	94.03	0.0858	9.5	0.0758
1384	463.536	0.0743	94.03	0.0858	9.5	0.0758
1385	463.536	0.0743	94.03	0.0858	9.5	0.0758
1386	463.536	0.0743	94.03	0.0858	9.5	0.0758
1387	463.536	0.0743	94.03	0.0858	9.5	0.0758
1388	463.536	0.0743	94.03	0.0858	9.5	0.0758
1389	463.536	0.0743	94.03	0.0858	9.5	0.0758

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1390	463.536	0.0743	94.03	0.0858	9.5	0.0758
1391	463.536	0.0743	94.03	0.0858	9.5	0.0758
1392	463.536	0.0743	94.03	0.0859	9.5	0.0758
1393	463.536	0.0744	94.03	0.0859	9.5	0.0758
1394	463.536	0.0744	94.03	0.0859	9.5	0.0758
1395	463.536	0.0744	94.03	0.0859	9.5	0.0758
1396	463.536	0.0744	94.03	0.0859	9.5	0.0759
1397	463.536	0.0744	94.03	0.0859	9.5	0.0759
1398	463.536	0.0744	94.03	0.0859	9.5	0.0759
1399	463.536	0.0744	94.03	0.0859	9.5	0.0759
1400	463.536	0.0744	94.03	0.0859	9.5	0.0759
1401	463.536	0.0744	94.03	0.0859	9.5	0.0759
1402	463.536	0.0744	94.03	0.0859	9.5	0.0759
1403	463.536	0.0744	94.03	0.0860	9.5	0.0759
1404	463.536	0.0744	94.03	0.0860	9.5	0.0759
1405	463.536	0.0744	94.03	0.0860	9.5	0.0759
1406	463.536	0.0744	94.03	0.0860	9.5	0.0759
1407	463.536	0.0744	94.03	0.0860	9.5	0.0759
1408	463.536	0.0744	94.03	0.0860	9.5	0.0759
1409	463.536	0.0744	94.03	0.0860	9.5	0.0760
1410	463.536	0.0744	94.03	0.0860	9.5	0.0760
1411	463.536	0.0744	94.03	0.0860	9.5	0.0760
1412	463.536	0.0744	94.03	0.0860	9.5	0.0760
1413	463.536	0.0744	94.03	0.0860	9.5	0.0760
1414	463.536	0.0744	94.03	0.0861	9.5	0.0760
1415	463.536	0.0744	94.03	0.0861	9.5	0.0760
1416	463.536	0.0744	94.03	0.0861	9.5	0.0760
1417	463.536	0.0744	94.03	0.0861	9.5	0.0760
1418	463.536	0.0745	94.03	0.0861	9.5	0.0760
1419	463.536	0.0745	94.03	0.0861	9.5	0.0760
1420	463.536	0.0745	94.03	0.0861	9.5	0.0760
1421	463.536	0.0745	94.03	0.0861	9.5	0.0760
1422	463.536	0.0745	94.03	0.0861	9.5	0.0760
1423	463.536	0.0745	94.03	0.0861	9.5	0.0761
1424	463.536	0.0745	94.03	0.0862	9.5	0.0761
1425	463.536	0.0745	94.03	0.0862	9.5	0.0761
1426	463.536	0.0745	94.03	0.0862	9.5	0.0761
1427	463.536	0.0745	94.03	0.0862	9.5	0.0761
1428	463.536	0.0745	94.03	0.0862	9.5	0.0761
1429	463.536	0.0745	94.03	0.0862	9.5	0.0761
1430	463.536	0.0745	94.03	0.0862	9.5	0.0761

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1431	463.536	0.0745	94.03	0.0862	9.5	0.0761
1432	463.536	0.0745	94.03	0.0862	9.5	0.0761
1433	463.536	0.0745	94.03	0.0862	9.5	0.0761
1434	463.536	0.0745	94.03	0.0862	9.5	0.0761
1435	463.536	0.0745	94.03	0.0863	9.5	0.0761
1436	463.536	0.0745	94.03	0.0863	9.5	0.0762
1437	463.536	0.0745	94.03	0.0863	9.5	0.0762
1438	463.536	0.0745	94.03	0.0863	9.5	0.0762
1439	463.536	0.0745	94.03	0.0863	9.5	0.0762
1440	463.536	0.0745	94.03	0.0863	9.5	0.0762
1441	463.536	0.0745	94.03	0.0863	9.5	0.0762
1442	463.536	0.0745	94.03	0.0863	9.5	0.0762
1443	463.536	0.0745	94.03	0.0863	9.5	0.0762
1444	463.536	0.0746	94.03	0.0863	9.5	0.0762
1445	463.536	0.0746	94.03	0.0864	9.5	0.0762
1446	463.536	0.0746	94.03	0.0864	9.5	0.0762
1447	463.536	0.0746	94.03	0.0864	9.5	0.0762
1448	463.536	0.0746	94.03	0.0864	9.5	0.0762
1449	463.536	0.0746	94.03	0.0864	9.5	0.0763
1450	463.536	0.0746	94.03	0.0864	9.5	0.0763
1451	463.536	0.0746	94.03	0.0864	9.5	0.0763
1452	463.536	0.0746	94.03	0.0864	9.5	0.0763
1453	463.536	0.0746	94.03	0.0864	9.5	0.0763
1454	463.536	0.0746	94.03	0.0864	9.5	0.0763
1455	463.536	0.0746	94.03	0.0864	9.5	0.0763
1456	463.536	0.0746	94.03	0.0865	9.5	0.0763
1457	463.536	0.0746	94.03	0.0865	9.5	0.0763
1458	463.536	0.0746	94.03	0.0865	9.5	0.0763
1459	463.536	0.0746	94.03	0.0865	9.5	0.0763
1460	463.536	0.0746	94.03	0.0865	9.5	0.0763
1461	463.536	0.0746	94.03	0.0865	9.5	0.0763
1462	463.536	0.0746	94.03	0.0865	9.5	0.0764
1463	463.536	0.0746	94.03	0.0865	9.5	0.0764
1464	463.536	0.0746	94.03	0.0865	9.5	0.0764
1465	463.536	0.0746	94.03	0.0865	9.5	0.0764
1466	463.536	0.0746	94.03	0.0865	9.5	0.0764
1467	463.536	0.0746	94.03	0.0866	9.5	0.0764
1468	463.536	0.0746	94.03	0.0866	9.5	0.0764
1469	463.536	0.0746	94.03	0.0866	9.5	0.0764
1470	463.536	0.0747	94.03	0.0866	9.5	0.0764
1471	463.536	0.0747	94.03	0.0866	9.5	0.0764

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1472	463.536	0.0747	94.03	0.0866	9.5	0.0764
1473	463.536	0.0747	94.03	0.0866	9.5	0.0764
1474	463.536	0.0747	94.03	0.0866	9.5	0.0764
1475	463.536	0.0747	94.03	0.0866	9.5	0.0765
1476	463.536	0.0747	94.03	0.0866	9.5	0.0765
1477	463.536	0.0747	94.03	0.0867	9.5	0.0765
1478	463.536	0.0747	94.03	0.0867	9.5	0.0765
1479	463.536	0.0747	94.03	0.0867	9.5	0.0765
1480	463.536	0.0747	94.03	0.0867	9.5	0.0765
1481	463.536	0.0747	94.03	0.0867	9.5	0.0765
1482	463.536	0.0747	94.03	0.0867	9.5	0.0765
1483	463.536	0.0747	94.03	0.0867	9.5	0.0765
1484	463.536	0.0747	94.03	0.0867	9.5	0.0765
1485	463.536	0.0747	94.03	0.0867	9.5	0.0765
1486	463.536	0.0747	94.03	0.0867	9.5	0.0765
1487	463.536	0.0747	94.03	0.0867	9.5	0.0765
1488	463.536	0.0747	94.03	0.0868	9.5	0.0766
1489	463.536	0.0747	94.03	0.0868	9.5	0.0766
1490	463.536	0.0747	94.03	0.0868	9.5	0.0766
1491	463.536	0.0747	94.03	0.0868	9.5	0.0766
1492	463.536	0.0747	94.03	0.0868	9.5	0.0766
1493	463.536	0.0747	94.03	0.0868	9.5	0.0766
1494	463.536	0.0747	94.03	0.0868	9.5	0.0766
1495	463.536	0.0747	94.03	0.0868	9.5	0.0766
1496	463.536	0.0748	94.03	0.0868	9.5	0.0766
1497	463.536	0.0748	94.03	0.0868	9.5	0.0766
1498	463.536	0.0748	94.03	0.0868	9.5	0.0766
1499	463.536	0.0748	94.03	0.0869	9.5	0.0766
1500	463.536	0.0748	94.03	0.0869	9.5	0.0767
1501	463.536	0.0748	94.03	0.0869	9.5	0.0767
1502	463.536	0.0748	94.03	0.0869	9.5	0.0767
1503	463.536	0.0748	94.03	0.0869	9.5	0.0767
1504	463.536	0.0748	94.03	0.0869	9.5	0.0767
1505	463.536	0.0748	94.03	0.0869	9.5	0.0767
1506	463.536	0.0748	94.03	0.0869	9.5	0.0767
1507	463.536	0.0748	94.03	0.0869	9.5	0.0767
1508	463.536	0.0748	94.03	0.0869	9.5	0.0767
1509	463.536	0.0748	94.03	0.0870	9.5	0.0767
1510	463.536	0.0748	94.03	0.0870	9.5	0.0767
1511	463.536	0.0748	94.03	0.0870	9.5	0.0767
1512	463.536	0.0748	94.03	0.0870	9.5	0.0767

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1513	463.536	0.0748	94.03	0.0870	9.5	0.0768
1514	463.536	0.0748	94.03	0.0870	9.5	0.0768
1515	463.536	0.0748	94.03	0.0870	9.5	0.0768
1516	463.536	0.0748	94.03	0.0870	9.5	0.0768
1517	463.536	0.0748	94.03	0.0870	9.5	0.0768
1518	463.536	0.0748	94.03	0.0870	9.5	0.0768
1519	463.536	0.0748	94.03	0.0870	9.5	0.0768
1520	463.536	0.0748	94.03	0.0871	9.5	0.0768
1521	463.536	0.0748	94.03	0.0871	9.5	0.0768
1522	463.536	0.0748	94.03	0.0871	9.5	0.0768
1523	463.536	0.0749	94.03	0.0871	9.5	0.0768
1524	463.536	0.0749	94.03	0.0871	9.5	0.0768
1525	463.536	0.0749	94.03	0.0871	9.5	0.0768
1526	463.536	0.0749	94.03	0.0871	9.5	0.0769
1527	463.536	0.0749	94.03	0.0871	9.5	0.0769
1528	463.536	0.0749	94.03	0.0871	9.5	0.0769
1529	463.536	0.0749	94.03	0.0871	9.5	0.0769
1530	463.536	0.0749	94.03	0.0871	9.5	0.0769
1531	463.536	0.0749	94.03	0.0872	9.5	0.0769
1532	463.536	0.0749	94.03	0.0872	9.5	0.0769
1533	463.536	0.0749	94.03	0.0872	9.5	0.0769
1534	463.536	0.0749	94.03	0.0872	9.5	0.0769
1535	463.536	0.0749	94.03	0.0872	9.5	0.0769
1536	463.536	0.0749	94.03	0.0872	9.5	0.0769
1537	463.536	0.0749	94.03	0.0872	9.5	0.0769
1538	463.536	0.0749	94.03	0.0872	9.5	0.0770
1539	463.536	0.0749	94.03	0.0872	9.5	0.0770
1540	463.536	0.0749	94.03	0.0872	9.5	0.0770
1541	463.536	0.0749	94.03	0.0872	9.5	0.0770
1542	463.536	0.0749	94.03	0.0873	9.5	0.0770
1543	463.536	0.0749	94.03	0.0873	9.5	0.0770
1544	463.536	0.0749	94.03	0.0873	9.5	0.0770
1545	463.536	0.0749	94.03	0.0873	9.5	0.0770
1546	463.536	0.0749	94.03	0.0873	9.5	0.0770
1547	463.536	0.0749	94.03	0.0873	9.5	0.0770
1548	463.536	0.0749	94.03	0.0873	9.5	0.0770
1549	463.536	0.0749	94.03	0.0873	9.5	0.0770
1550	463.536	0.0750	94.03	0.0873	9.5	0.0770
1551	463.536	0.0750	94.03	0.0873	9.5	0.0771
1552	463.536	0.0750	94.03	0.0874	9.5	0.0771
1553	463.536	0.0750	94.03	0.0874	9.5	0.0771

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1554	463.536	0.0750	94.03	0.0874	9.5	0.0771
1555	463.536	0.0750	94.03	0.0874	9.5	0.0771
1556	463.536	0.0750	94.03	0.0874	9.5	0.0771
1557	463.536	0.0750	94.03	0.0874	9.5	0.0771
1558	463.536	0.0750	94.03	0.0874	9.5	0.0771
1559	463.536	0.0750	94.03	0.0874	9.5	0.0771
1560	463.536	0.0750	94.03	0.0874	9.5	0.0771
1561	463.536	0.0750	94.03	0.0874	9.5	0.0771
1562	463.536	0.0750	94.03	0.0874	9.5	0.0771
1563	463.536	0.0750	94.03	0.0875	9.5	0.0772
1564	463.536	0.0750	94.03	0.0875	9.5	0.0772
1565	463.536	0.0750	94.03	0.0875	9.5	0.0772
1566	463.536	0.0750	94.03	0.0875	9.5	0.0772
1567	463.536	0.0750	94.03	0.0875	9.5	0.0772
1568	463.536	0.0750	94.03	0.0875	9.5	0.0772
1569	463.536	0.0750	94.03	0.0875	9.5	0.0772
1570	463.536	0.0750	94.03	0.0875	9.5	0.0772
1571	463.536	0.0750	94.03	0.0875	9.5	0.0772
1572	463.536	0.0750	94.03	0.0875	9.5	0.0772
1573	463.536	0.0750	94.03	0.0875	9.5	0.0772
1574	463.536	0.0750	94.03	0.0876	9.5	0.0772
1575	463.536	0.0750	94.03	0.0876	9.5	0.0772
1576	463.536	0.0750	94.03	0.0876	9.5	0.0773
1577	463.536	0.0751	94.03	0.0876	9.5	0.0773
1578	463.536	0.0751	94.03	0.0876	9.5	0.0773
1579	463.536	0.0751	94.03	0.0876	9.5	0.0773
1580	463.536	0.0751	94.03	0.0876	9.5	0.0773
1581	463.536	0.0751	94.03	0.0876	9.5	0.0773
1582	463.536	0.0751	94.03	0.0876	9.5	0.0773
1583	463.536	0.0751	94.03	0.0876	9.5	0.0773
1584	463.536	0.0751	94.03	0.0876	9.5	0.0773
1585	463.536	0.0751	94.03	0.0877	9.5	0.0773
1586	463.536	0.0751	94.03	0.0877	9.5	0.0773
1587	463.536	0.0751	94.03	0.0877	9.5	0.0773
1588	463.536	0.0751	94.03	0.0877	9.5	0.0774
1589	463.536	0.0751	94.03	0.0877	9.5	0.0774
1590	463.536	0.0751	94.03	0.0877	9.5	0.0774
1591	463.536	0.0751	94.03	0.0877	9.5	0.0774
1592	463.536	0.0751	94.03	0.0877	9.5	0.0774
1593	463.536	0.0751	94.03	0.0877	9.5	0.0774
1594	463.536	0.0751	94.03	0.0877	9.5	0.0774

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1595	463.536	0.0751	94.03	0.0878	9.5	0.0774
1596	463.536	0.0751	94.03	0.0878	9.5	0.0774
1597	463.536	0.0751	94.03	0.0878	9.5	0.0774
1598	463.536	0.0751	94.03	0.0878	9.5	0.0774
1599	463.536	0.0751	94.03	0.0878	9.5	0.0774
1600	463.536	0.0751	94.03	0.0878	9.5	0.0774
1601	463.536	0.0751	94.03	0.0878	9.5	0.0775
1602	463.536	0.0751	94.03	0.0878	9.5	0.0775
1603	463.536	0.0751	94.03	0.0878	9.5	0.0775
1604	463.536	0.0751	94.03	0.0878	9.5	0.0775
1605	463.536	0.0752	94.03	0.0878	9.5	0.0775
1606	463.536	0.0752	94.03	0.0879	9.5	0.0775
1607	463.536	0.0752	94.03	0.0879	9.5	0.0775
1608	463.536	0.0752	94.03	0.0879	9.5	0.0775
1609	463.536	0.0752	94.03	0.0879	9.5	0.0775
1610	463.536	0.0752	94.03	0.0879	9.5	0.0775
1611	463.536	0.0752	94.03	0.0879	9.5	0.0775
1612	463.536	0.0752	94.03	0.0879	9.5	0.0775
1613	463.536	0.0752	94.03	0.0879	9.5	0.0776
1614	463.536	0.0752	94.03	0.0879	9.5	0.0776
1615	463.536	0.0752	94.03	0.0879	9.5	0.0776
1616	463.536	0.0752	94.03	0.0879	9.5	0.0776
1617	463.536	0.0752	94.03	0.0880	9.5	0.0776
1618	463.536	0.0752	94.03	0.0880	9.5	0.0776
1619	463.536	0.0752	94.03	0.0880	9.5	0.0776
1620	463.536	0.0752	94.03	0.0880	9.5	0.0776
1621	463.536	0.0752	94.03	0.0880	9.5	0.0776
1622	463.536	0.0752	94.03	0.0880	9.5	0.0776
1623	463.536	0.0752	94.03	0.0880	9.5	0.0776
1624	463.536	0.0752	94.03	0.0880	9.5	0.0776
1625	463.536	0.0752	94.03	0.0880	9.5	0.0777
1626	463.536	0.0752	94.03	0.0880	9.5	0.0777
1627	463.536	0.0752	94.03	0.0880	9.5	0.0777
1628	463.536	0.0752	94.03	0.0881	9.5	0.0777
1629	463.536	0.0752	94.03	0.0881	9.5	0.0777
1630	463.536	0.0752	94.03	0.0881	9.5	0.0777
1631	463.536	0.0752	94.03	0.0881	9.5	0.0777
1632	463.536	0.0752	94.03	0.0881	9.5	0.0777
1633	463.536	0.0753	94.03	0.0881	9.5	0.0777
1634	463.536	0.0753	94.03	0.0881	9.5	0.0777
1635	463.536	0.0753	94.03	0.0881	9.5	0.0777

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1636	463.536	0.0753	94.03	0.0881	9.5	0.0777
1637	463.536	0.0753	94.03	0.0881	9.5	0.0778
1638	463.536	0.0753	94.03	0.0882	9.5	0.0778
1639	463.536	0.0753	94.03	0.0882	9.5	0.0778
1640	463.536	0.0753	94.03	0.0882	9.5	0.0778
1641	463.536	0.0753	94.03	0.0882	9.5	0.0778
1642	463.536	0.0753	94.03	0.0882	9.5	0.0778
1643	463.536	0.0753	94.03	0.0882	9.5	0.0778
1644	463.536	0.0753	94.03	0.0882	9.5	0.0778
1645	463.536	0.0753	94.03	0.0882	9.5	0.0778
1646	463.536	0.0753	94.03	0.0882	9.5	0.0778
1647	463.536	0.0753	94.03	0.0882	9.5	0.0778
1648	463.536	0.0753	94.03	0.0882	9.5	0.0778
1649	463.536	0.0753	94.03	0.0883	9.5	0.0779
1650	463.536	0.0753	94.03	0.0883	9.5	0.0779
1651	463.536	0.0753	94.03	0.0883	9.5	0.0779
1652	463.536	0.0753	94.03	0.0883	9.5	0.0779
1653	463.536	0.0753	94.03	0.0883	9.5	0.0779
1654	463.536	0.0753	94.03	0.0883	9.5	0.0779
1655	463.536	0.0753	94.03	0.0883	9.5	0.0779
1656	463.536	0.0753	94.03	0.0883	9.5	0.0779
1657	463.536	0.0753	94.03	0.0883	9.5	0.0779
1658	463.536	0.0753	94.03	0.0883	9.5	0.0779
1659	463.536	0.0753	94.03	0.0883	9.5	0.0779
1660	463.536	0.0753	94.03	0.0884	9.5	0.0779
1661	463.536	0.0753	94.03	0.0884	9.5	0.0780
1662	463.536	0.0754	94.03	0.0884	9.5	0.0780
1663	463.536	0.0754	94.03	0.0884	9.5	0.0780
1664	463.536	0.0754	94.03	0.0884	9.5	0.0780
1665	463.536	0.0754	94.03	0.0884	9.5	0.0780
1666	463.536	0.0754	94.03	0.0884	9.5	0.0780
1667	463.536	0.0754	94.03	0.0884	9.5	0.0780
1668	463.536	0.0754	94.03	0.0884	9.5	0.0780
1669	463.536	0.0754	94.03	0.0884	9.5	0.0780
1670	463.536	0.0754	94.03	0.0884	9.5	0.0780
1671	463.536	0.0754	94.03	0.0885	9.5	0.0780
1672	463.536	0.0754	94.03	0.0885	9.5	0.0780
1673	463.536	0.0754	94.03	0.0885	9.5	0.0781
1674	463.536	0.0754	94.03	0.0885	9.5	0.0781
1675	463.536	0.0754	94.03	0.0885	9.5	0.0781
1676	463.536	0.0754	94.03	0.0885	9.5	0.0781

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1677	463.536	0.0754	94.03	0.0885	9.5	0.0781
1678	463.536	0.0754	94.03	0.0885	9.5	0.0781
1679	463.536	0.0754	94.03	0.0885	9.5	0.0781
1680	463.536	0.0754	94.03	0.0885	9.5	0.0781
1681	463.536	0.0754	94.03	0.0885	9.5	0.0781
1682	463.536	0.0754	94.03	0.0886	9.5	0.0781
1683	463.536	0.0754	94.03	0.0886	9.5	0.0781
1684	463.536	0.0754	94.03	0.0886	9.5	0.0781
1685	463.536	0.0754	94.03	0.0886	9.5	0.0782
1686	463.536	0.0754	94.03	0.0886	9.5	0.0782
1687	463.536	0.0754	94.03	0.0886	9.5	0.0782
1688	463.536	0.0754	94.03	0.0886	9.5	0.0782
1689	463.536	0.0754	94.03	0.0886	9.5	0.0782
1690	463.536	0.0754	94.03	0.0886	9.5	0.0782
1691	463.536	0.0755	94.03	0.0886	9.5	0.0782
1692	463.536	0.0755	94.03	0.0886	9.5	0.0782
1693	463.536	0.0755	94.03	0.0887	9.5	0.0782
1694	463.536	0.0755	94.03	0.0887	9.5	0.0782
1695	463.536	0.0755	94.03	0.0887	9.5	0.0782
1696	463.536	0.0755	94.03	0.0887	9.5	0.0782
1697	463.536	0.0755	94.03	0.0887	9.5	0.0783
1698	463.536	0.0755	94.03	0.0887	9.5	0.0783
1699	463.536	0.0755	94.03	0.0887	9.5	0.0783
1700	463.536	0.0755	94.03	0.0887	9.5	0.0783
1701	463.536	0.0755	94.03	0.0887	9.5	0.0783
1702	463.536	0.0755	94.03	0.0887	9.5	0.0783
1703	463.536	0.0755	94.03	0.0888	9.5	0.0783
1704	463.536	0.0755	94.03	0.0888	9.5	0.0783
1705	463.536	0.0755	94.03	0.0888	9.5	0.0783
1706	463.536	0.0755	94.03	0.0888	9.5	0.0783
1707	463.536	0.0755	94.03	0.0888	9.5	0.0783
1708	463.536	0.0755	94.03	0.0888	9.5	0.0783
1709	463.536	0.0755	94.03	0.0888	9.5	0.0784
1710	463.536	0.0755	94.03	0.0888	9.5	0.0784
1711	463.536	0.0755	94.03	0.0888	9.5	0.0784
1712	463.536	0.0755	94.03	0.0888	9.5	0.0784
1713	463.536	0.0755	94.03	0.0888	9.5	0.0784
1714	463.536	0.0755	94.03	0.0889	9.5	0.0784
1715	463.536	0.0755	94.03	0.0889	9.5	0.0784
1716	463.536	0.0755	94.03	0.0889	9.5	0.0784
1717	463.536	0.0755	94.03	0.0889	9.5	0.0784

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1718	463.536	0.0755	94.03	0.0889	9.5	0.0784
1719	463.536	0.0755	94.03	0.0889	9.5	0.0784
1720	463.536	0.0756	94.03	0.0889	9.5	0.0784
1721	463.536	0.0756	94.03	0.0889	9.5	0.0785
1722	463.536	0.0756	94.03	0.0889	9.5	0.0785
1723	463.536	0.0756	94.03	0.0889	9.5	0.0785
1724	463.536	0.0756	94.03	0.0889	9.5	0.0785
1725	463.536	0.0756	94.03	0.0890	9.5	0.0785
1726	463.536	0.0756	94.03	0.0890	9.5	0.0785
1727	463.536	0.0756	94.03	0.0890	9.5	0.0785
1728	463.536	0.0756	94.03	0.0890	9.5	0.0785
1729	463.536	0.0756	94.03	0.0890	9.5	0.0785
1730	463.536	0.0756	94.03	0.0890	9.5	0.0785
1731	463.536	0.0756	94.03	0.0890	9.5	0.0785
1732	463.536	0.0756	94.03	0.0890	9.5	0.0785
1733	463.536	0.0756	94.03	0.0890	9.5	0.0786
1734	463.536	0.0756	94.03	0.0890	9.5	0.0786
1735	463.536	0.0756	94.03	0.0890	9.5	0.0786
1736	463.536	0.0756	94.03	0.0891	9.5	0.0786
1737	463.536	0.0756	94.03	0.0891	9.5	0.0786
1738	463.536	0.0756	94.03	0.0891	9.5	0.0786
1739	463.536	0.0756	94.03	0.0891	9.5	0.0786
1740	463.536	0.0756	94.03	0.0891	9.5	0.0786
1741	463.536	0.0756	94.03	0.0891	9.5	0.0786
1742	463.536	0.0756	94.03	0.0891	9.5	0.0786
1743	463.536	0.0756	94.03	0.0891	9.5	0.0786
1744	463.536	0.0756	94.03	0.0891	9.5	0.0787
1745	463.536	0.0756	94.03	0.0891	9.5	0.0787
1746	463.536	0.0756	94.03	0.0891	9.5	0.0787
1747	463.536	0.0756	94.03	0.0892	9.5	0.0787
1748	463.536	0.0756	94.03	0.0892	9.5	0.0787
1749	463.536	0.0757	94.03	0.0892	9.5	0.0787
1750	463.536	0.0757	94.03	0.0892	9.5	0.0787
1751	463.536	0.0757	94.03	0.0892	9.5	0.0787
1752	463.536	0.0757	94.03	0.0892	9.5	0.0787
1753	463.536	0.0757	94.03	0.0892	9.5	0.0787
1754	463.536	0.0757	94.03	0.0892	9.5	0.0787
1755	463.536	0.0757	94.03	0.0892	9.5	0.0787
1756	463.536	0.0757	94.03	0.0892	9.5	0.0788
1757	463.536	0.0757	94.03	0.0892	9.5	0.0788
1758	463.536	0.0757	94.03	0.0893	9.5	0.0788

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1759	463.536	0.0757	94.03	0.0893	9.5	0.0788
1760	463.536	0.0757	94.03	0.0893	9.5	0.0788
1761	463.536	0.0757	94.03	0.0893	9.5	0.0788
1762	463.536	0.0757	94.03	0.0893	9.5	0.0788
1763	463.536	0.0757	94.03	0.0893	9.5	0.0788
1764	463.536	0.0757	94.03	0.0893	9.5	0.0788
1765	463.536	0.0757	94.03	0.0893	9.5	0.0788
1766	463.536	0.0757	94.03	0.0893	9.5	0.0788
1767	463.536	0.0757	94.03	0.0893	9.5	0.0788
1768	463.536	0.0757	94.03	0.0893	9.5	0.0789
1769	463.536	0.0757	94.03	0.0894	9.5	0.0789
1770	463.536	0.0757	94.03	0.0894	9.5	0.0789
1771	463.536	0.0757	94.03	0.0894	9.5	0.0789
1772	463.536	0.0757	94.03	0.0894	9.5	0.0789
1773	463.536	0.0757	94.03	0.0894	9.5	0.0789
1774	463.536	0.0757	94.03	0.0894	9.5	0.0789
1775	463.536	0.0757	94.03	0.0894	9.5	0.0789
1776	463.536	0.0757	94.03	0.0894	9.5	0.0789
1777	463.536	0.0757	94.03	0.0894	9.5	0.0789
1778	463.536	0.0757	94.03	0.0894	9.5	0.0789
1779	463.536	0.0758	94.03	0.0894	9.5	0.0790
1780	463.536	0.0758	94.03	0.0895	9.5	0.0790
1781	463.536	0.0758	94.03	0.0895	9.5	0.0790
1782	463.536	0.0758	94.03	0.0895	9.5	0.0790
1783	463.536	0.0758	94.03	0.0895	9.5	0.0790
1784	463.536	0.0758	94.03	0.0895	9.5	0.0790
1785	463.536	0.0758	94.03	0.0895	9.5	0.0790
1786	463.536	0.0758	94.03	0.0895	9.5	0.0790
1787	463.536	0.0758	94.03	0.0895	9.5	0.0790
1788	463.536	0.0758	94.03	0.0895	9.5	0.0790
1789	463.536	0.0758	94.03	0.0895	9.5	0.0790
1790	463.536	0.0758	94.03	0.0896	9.5	0.0790
1791	463.536	0.0758	94.03	0.0896	9.5	0.0791
1792	463.536	0.0758	94.03	0.0901	9.5	0.0791
1793	463.536	0.0758	94.03	0.0941	9.5	0.0791
1794	463.536	0.0758	94.03	0.0980	9.5	0.0791
1795	463.536	0.0758	94.03	0.1019	9.5	0.0791
1796	463.536	0.0758	94.03	0.1057	9.5	0.0791
1797	463.536	0.0758	94.03	0.1096	9.5	0.0791
1798	463.536	0.0758	94.03	0.1134	9.5	0.0791
1799	463.536	0.0758	94.03	0.1172	9.5	0.0791

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1800	463.536	0.0758	94.03	0.1200	9.5	0.0791
1801	463.536	0.0758	94.03	0.1204	9.5	0.0791
1802	463.536	0.0758	94.03	0.1208	9.5	0.0791
1803	463.536	0.0758	94.03	0.1212	9.5	0.0791
1804	463.536	0.0758	94.03	0.1215	9.5	0.0791
1805	463.536	0.0758	94.03	0.1219	9.5	0.0792
1806	463.536	0.0758	94.03	0.1223	9.5	0.0792
1807	463.536	0.0758	94.03	0.1227	9.5	0.0792
1808	463.536	0.0758	94.03	0.1231	9.5	0.0792
1809	463.536	0.0758	94.03	0.1235	9.5	0.0792
1810	463.536	0.0759	94.03	0.1238	9.5	0.0792
1811	463.536	0.0759	94.03	0.1242	9.5	0.0792
1812	463.536	0.0759	94.03	0.1246	9.5	0.0792
1813	463.536	0.0759	94.03	0.1250	9.5	0.0792
1814	463.536	0.0759	94.03	0.1254	9.5	0.0792
1815	463.536	0.0759	94.03	0.1257	9.5	0.0792
1816	463.536	0.0759	94.03	0.1261	9.5	0.0792
1817	463.536	0.0759	94.03	0.1265	9.5	0.0792
1818	463.536	0.0759	94.03	0.1269	9.5	0.0792
1819	463.536	0.0759	94.03	0.1272	9.5	0.0793
1820	463.536	0.0759	94.03	0.1276	9.5	0.0793
1821	463.536	0.0759	94.03	0.1280	9.5	0.0793
1822	463.536	0.0759	94.03	0.1284	9.5	0.0793
1823	463.536	0.0759	94.03	0.1287	9.5	0.0793
1824	463.536	0.0759	94.03	0.1291	9.5	0.0793
1825	463.536	0.0759	94.03	0.1295	9.5	0.0793
1826	463.536	0.0759	94.03	0.1299	9.5	0.0793
1827	463.536	0.0759	94.03	0.1302	9.5	0.0793
1828	463.536	0.0759	94.03	0.1306	9.5	0.0793
1829	463.536	0.0759	94.03	0.1310	9.5	0.0793
1830	463.536	0.0759	94.03	0.1313	9.5	0.0793
1831	463.536	0.0759	94.03	0.1317	9.5	0.0793
1832	463.536	0.0759	94.03	0.1321	9.5	0.0793
1833	463.536	0.0759	94.03	0.1325	9.5	0.0794
1834	463.536	0.0759	94.03	0.1328	9.5	0.0794
1835	463.536	0.0759	94.03	0.1332	9.5	0.0794
1836	463.536	0.0759	94.03	0.1336	9.5	0.0794
1837	463.536	0.0759	94.03	0.1339	9.5	0.0794
1838	463.536	0.0759	94.03	0.1343	9.5	0.0794
1839	463.536	0.0759	94.03	0.1347	9.5	0.0794
1840	463.536	0.0759	94.03	0.1350	9.5	0.0794

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1841	463.536	0.0759	94.03	0.1354	9.5	0.0794
1842	463.536	0.0759	94.03	0.1358	9.5	0.0794
1843	463.536	0.0759	94.03	0.1362	9.5	0.0794
1844	463.536	0.0760	94.03	0.1365	9.5	0.0794
1845	463.536	0.0760	94.03	0.1369	9.5	0.0794
1846	463.536	0.0760	94.03	0.1373	9.5	0.0794
1847	463.536	0.0760	94.03	0.1376	9.5	0.0795
1848	463.536	0.0760	94.03	0.1380	9.5	0.0795
1849	463.536	0.0760	94.03	0.1384	9.5	0.0795
1850	463.536	0.0760	94.03	0.1387	9.5	0.0795
1851	463.536	0.0760	94.03	0.1391	9.5	0.0795
1852	463.536	0.0760	94.03	0.1394	9.5	0.0795
1853	463.536	0.0760	94.03	0.1398	9.5	0.0795
1854	463.536	0.0760	94.03	0.1402	9.5	0.0795
1855	463.536	0.0760	94.03	0.1405	9.5	0.0795
1856	463.536	0.0760	94.03	0.1409	9.5	0.0795
1857	463.536	0.0760	94.03	0.1410	9.5	0.0795
1858	463.536	0.0760	94.03	0.1411	9.5	0.0795
1859	463.536	0.0760	94.03	0.1412	9.5	0.0795
1860	463.536	0.0760	94.03	0.1413	9.5	0.0795
1861	463.536	0.0760	94.03	0.1414	9.5	0.0796
1862	463.536	0.0760	94.03	0.1415	9.5	0.0796
1863	463.536	0.0760	94.03	0.1416	9.5	0.0796
1864	463.536	0.0760	94.03	0.1417	9.5	0.0796
1865	463.536	0.0760	94.03	0.1418	9.5	0.0796
1866	463.536	0.0760	94.03	0.1419	9.5	0.0796
1867	463.536	0.0760	94.03	0.1420	9.5	0.0796
1868	463.536	0.0760	94.03	0.1422	9.5	0.0796
1869	463.536	0.0760	94.03	0.1423	9.5	0.0796
1870	463.536	0.0760	94.03	0.1424	9.5	0.0796
1871	463.536	0.0760	94.03	0.1425	9.5	0.0796
1872	463.536	0.0760	94.03	0.1426	9.5	0.0796
1873	463.536	0.0760	94.03	0.1427	9.5	0.0796
1874	463.536	0.0760	94.03	0.1428	9.5	0.0796
1875	463.536	0.0760	94.03	0.1429	9.5	0.0797
1876	463.536	0.0760	94.03	0.1430	9.5	0.0797
1877	463.536	0.0760	94.03	0.1431	9.5	0.0797
1878	463.536	0.0761	94.03	0.1432	9.5	0.0797
1879	463.536	0.0761	94.03	0.1433	9.5	0.0797
1880	463.536	0.0761	94.03	0.1434	9.5	0.0797
1881	463.536	0.0761	94.03	0.1435	9.5	0.0797

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1882	463.536	0.0761	94.03	0.1436	9.5	0.0797
1883	463.536	0.0761	94.03	0.1437	9.5	0.0797
1884	463.536	0.0761	94.03	0.1438	9.5	0.0797
1885	463.536	0.0761	94.03	0.1439	9.5	0.0797
1886	463.536	0.0761	94.03	0.1440	9.5	0.0797
1887	463.536	0.0761	94.03	0.1441	9.5	0.0797
1888	463.536	0.0761	94.03	0.1442	9.5	0.0797
1889	463.536	0.0761	94.03	0.1443	9.5	0.0798
1890	463.536	0.0761	94.03	0.1444	9.5	0.0798
1891	463.536	0.0761	94.03	0.1445	9.5	0.0798
1892	463.536	0.0761	94.03	0.1446	9.5	0.0798
1893	463.536	0.0761	94.03	0.1447	9.5	0.0798
1894	463.536	0.0761	94.03	0.1448	9.5	0.0798
1895	463.536	0.0761	94.03	0.1449	9.5	0.0798
1896	463.536	0.0761	94.03	0.1450	9.5	0.0798
1897	463.536	0.0761	94.03	0.1451	9.5	0.0798
1898	463.536	0.0761	94.03	0.1452	9.5	0.0798
1899	463.536	0.0761	94.03	0.1453	9.5	0.0798
1900	463.536	0.0761	94.03	0.1454	9.5	0.0798
1901	463.536	0.0761	94.03	0.1455	9.5	0.0798
1902	463.536	0.0761	94.03	0.1456	9.5	0.0798
1903	463.536	0.0761	94.03	0.1457	9.5	0.0799
1904	463.536	0.0761	94.03	0.1458	9.5	0.0799
1905	463.536	0.0761	94.03	0.1459	9.5	0.0799
1906	463.536	0.0761	94.03	0.1460	9.5	0.0799
1907	463.536	0.0761	94.03	0.1461	9.5	0.0799
1908	463.536	0.0761	94.03	0.1462	9.5	0.0799
1909	463.536	0.0761	94.03	0.1463	9.5	0.0799
1910	463.536	0.0761	94.03	0.1464	9.5	0.0799
1911	463.536	0.0761	94.03	0.1465	9.5	0.0799
1912	463.536	0.0761	94.03	0.1466	9.5	0.0799
1913	463.536	0.0762	94.03	0.1467	9.5	0.0799
1914	463.536	0.0762	94.03	0.1468	9.5	0.0799
1915	463.536	0.0762	94.03	0.1471	9.5	0.0799
1916	463.536	0.0762	94.03	0.1476	9.5	0.0799
1917	463.536	0.0762	94.03	0.1480	9.5	0.0800
1918	463.536	0.0762	94.03	0.1484	9.5	0.0800
1919	463.536	0.0762	94.03	0.1488	9.5	0.0800
1920	463.536	0.0762	94.03	0.1492	9.5	0.0800
1921	463.536	0.0762	94.03	0.1497	9.5	0.0800
1922	463.536	0.0762	94.03	0.1501	9.5	0.0800

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1923	463.536	0.0762	94.03	0.1505	9.5	0.0800
1924	463.536	0.0762	94.03	0.1509	9.5	0.0800
1925	463.536	0.0762	94.03	0.1513	9.5	0.0800
1926	463.536	0.0762	94.03	0.1518	9.5	0.0800
1927	463.536	0.0762	94.03	0.1522	9.5	0.0800
1928	463.536	0.0762	94.03	0.1526	9.5	0.0800
1929	463.536	0.0762	94.03	0.1530	9.5	0.0800
1930	463.536	0.0762	94.03	0.1534	9.5	0.0800
1931	463.536	0.0762	94.03	0.1539	9.5	0.0801
1932	463.536	0.0762	94.03	0.1543	9.5	0.0801
1933	463.536	0.0762	94.03	0.1547	9.5	0.0801
1934	463.536	0.0762	94.03	0.1551	9.5	0.0801
1935	463.536	0.0762	94.03	0.1555	9.5	0.0801
1936	463.536	0.0762	94.03	0.1559	9.5	0.0801
1937	463.536	0.0762	94.03	0.1563	9.5	0.0801
1938	463.536	0.0762	94.03	0.1568	9.5	0.0801
1939	463.536	0.0762	94.03	0.1572	9.5	0.0801
1940	463.536	0.0762	94.03	0.1576	9.5	0.0801
1941	463.536	0.0762	94.03	0.1580	9.5	0.0801
1942	463.536	0.0762	94.03	0.1584	9.5	0.0801
1943	463.536	0.0762	94.03	0.1588	9.5	0.0801
1944	463.536	0.0762	94.03	0.1592	9.5	0.0802
1945	463.536	0.0762	94.03	0.1596	9.5	0.0802
1946	463.536	0.0762	94.03	0.1601	9.5	0.0802
1947	463.536	0.0762	94.03	0.1605	9.5	0.0802
1948	463.536	0.0762	94.03	0.1609	9.5	0.0802
1949	463.536	0.0763	94.03	0.1613	9.5	0.0802
1950	463.536	0.0763	94.03	0.1617	9.5	0.0802
1951	463.536	0.0763	94.03	0.1621	9.5	0.0802
1952	463.536	0.0763	94.03	0.1625	9.5	0.0802
1953	463.536	0.0763	94.03	0.1629	9.5	0.0802
1954	463.536	0.0763	94.03	0.1633	9.5	0.0802
1955	463.536	0.0763	94.03	0.1637	9.5	0.0802
1956	463.536	0.0763	94.03	0.1641	9.5	0.0802
1957	463.536	0.0763	94.03	0.1645	9.5	0.0802
1958	463.536	0.0763	94.03	0.1649	9.5	0.0803
1959	463.536	0.0763	94.03	0.1654	9.5	0.0803
1960	463.536	0.0763	94.03	0.1658	9.5	0.0803
1961	463.536	0.0763	94.03	0.1662	9.5	0.0803
1962	463.536	0.0763	94.03	0.1666	9.5	0.0803
1963	463.536	0.0763	94.03	0.1670	9.5	0.0803

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
1964	463.536	0.0763	94.03	0.1674	9.5	0.0803
1965	463.536	0.0763	94.03	0.1678	9.5	0.0803
1966	463.536	0.0763	94.03	0.1682	9.5	0.0803
1967	463.536	0.0763	94.03	0.1686	9.5	0.0803
1968	463.536	0.0763	94.03	0.1690	9.5	0.0803
1969	463.536	0.0763	94.03	0.1694	9.5	0.0803
1970	463.536	0.0763	94.03	0.1698	9.5	0.0803
1971	463.536	0.0763	94.03	0.1702	9.5	0.0803
1972	463.536	0.0763	94.03	0.1706	9.5	0.0804
1973	463.536	0.0763	94.03	0.1710	9.5	0.0804
1974	463.536	0.0763	94.03	0.1714	9.5	0.0804
1975	463.536	0.0763	94.03	0.1717	9.5	0.0804
1976	463.536	0.0763	94.03	0.1718	9.5	0.0804
1977	463.536	0.0763	94.03	0.1718	9.5	0.0804
1978	463.536	0.0763	94.03	0.1719	9.5	0.0804
1979	463.536	0.0763	94.03	0.1719	9.5	0.0804
1980	463.536	0.0763	94.03	0.1720	9.5	0.0804
1981	463.536	0.0763	94.03	0.1720	9.5	0.0804
1982	463.536	0.0763	94.03	0.1721	9.5	0.0804
1983	463.536	0.0763	94.03	0.1721	9.5	0.0804
1984	463.536	0.0763	94.03	0.1722	9.5	0.0804
1985	463.536	0.0763	94.03	0.1722	9.5	0.0804
1986	463.536	0.0763	94.03	0.1723	9.5	0.0805
1987	463.536	0.0764	94.03	0.1723	9.5	0.0805
1988	463.536	0.0764	94.03	0.1724	9.5	0.0805
1989	463.536	0.0764	94.03	0.1724	9.5	0.0805
1990	463.536	0.0764	94.03	0.1725	9.5	0.0805
1991	463.536	0.0764	94.03	0.1725	9.5	0.0805
1992	463.536	0.0764	94.03	0.1726	9.5	0.0805
1993	463.536	0.0764	94.03	0.1726	9.5	0.0805
1994	463.536	0.0764	94.03	0.1726	9.5	0.0805
1995	463.536	0.0764	94.03	0.1727	9.5	0.0805
1996	463.536	0.0764	94.03	0.1727	9.5	0.0805
1997	463.536	0.0764	94.03	0.1728	9.5	0.0805
1998	463.536	0.0764	94.03	0.1728	9.5	0.0805
1999	463.536	0.0764	94.03	0.1729	9.5	0.0806
2000	463.536	0.0764	94.03	0.1729	9.5	0.0806
2001	463.536	0.0764	94.03	0.1730	9.5	0.0806
2002	463.536	0.0764	94.03	0.1730	9.5	0.0806
2003	463.536	0.0764	94.03	0.1731	9.5	0.0806
2004	463.536	0.0764	94.03	0.1731	9.5	0.0806

Attachment 7

	R	S	T	U	V	W
20						
21	Mass UO2	Cp UO2	Mass Clad	Cp Clad	Mass Upper Plenum	Cp Upper Plenum
22	lbm	BTU/lb-F	lbm	BTU/lb-F	lbm	BTU/lb-F
2005	463.536	0.0764	94.03	0.1732	9.5	0.0806
2006	463.536	0.0764	94.03	0.1732	9.5	0.0806
2007	463.536	0.0764	94.03	0.1733	9.5	0.0806
2008	463.536	0.0764	94.03	0.1733	9.5	0.0806
2009	463.536	0.0764	94.03	0.1734	9.5	0.0806
2010	463.536	0.0764	94.03	0.1734	9.5	0.0806
2011	463.536	0.0764	94.03	0.1735	9.5	0.0806
2012	463.536	0.0764	94.03	0.1735	9.5	0.0806
2013	463.536	0.0764	94.03	0.1736	9.5	0.0807
2014	463.536	0.0764	94.03	0.1736	9.5	0.0807
2015	463.536	0.0764	94.03	0.1736	9.5	0.0807
2016	463.536	0.0764	94.03	0.1737	9.5	0.0807
2017	463.536	0.0764	94.03	0.1737	9.5	0.0807
2018	463.536	0.0764	94.03	0.1738	9.5	0.0807
2019	463.536	0.0764	94.03	0.1738	9.5	0.0807
2020	463.536	0.0764	94.03	0.1739	9.5	0.0807
2021	463.536	0.0764	94.03	0.1739	9.5	0.0807
2022	463.536	0.0764	94.03	0.1740	9.5	0.0807
2023	463.536	0.0764	94.03	0.1740	9.5	0.0807
2024	463.536	0.0764	94.03	0.1741	9.5	0.0807

Attachment 7

	X	Y	Z	AA	AB
1					
2					
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13					
14					
15					
16					
17					
18					
19	$x=0.5777893*(7.51+(0.0209*AG24)-(1.45E-5*AG24^2)+(7.67E-9*AG24^3))$		$x=AZ24$	$x=0.5777893*(7.51+(0.0209*AH24)-(1.45E-5*AH24^2)+(7.67E-9*AH24^3))$	
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
23	7.5072	17.45	0.0682	7.5072	45.20
24	7.5072	17.45	0.0682	7.5072	45.20
25	7.5072	17.45	0.0682	7.5072	45.20
26	7.5072	17.45	0.0682	7.5072	45.20
27	7.5072	17.45	0.0682	7.5072	45.20
28	7.5072	17.45	0.0682	7.5073	45.20
29	7.5073	17.45	0.0682	7.5073	45.20
30	7.5073	17.45	0.0682	7.5073	45.20
31	7.5073	17.45	0.0682	7.5074	45.20
32	7.5073	17.45	0.0682	7.5074	45.20
33	7.5074	17.45	0.0682	7.5074	45.20
34	7.5074	17.45	0.0682	7.5075	45.20
35	7.5074	17.45	0.0682	7.5075	45.20
36	7.5075	17.45	0.0682	7.5076	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
37	7.5075	17.45	0.0682	7.5077	45.20
38	7.5075	17.45	0.0682	7.5077	45.20
39	7.5076	17.45	0.0682	7.5078	45.20
40	7.5076	17.45	0.0682	7.5079	45.20
41	7.5077	17.45	0.0682	7.5080	45.20
42	7.5077	17.45	0.0682	7.5081	45.20
43	7.5078	17.45	0.0682	7.5081	45.20
44	7.5079	17.45	0.0682	7.5082	45.20
45	7.5079	17.45	0.0682	7.5083	45.20
46	7.5080	17.45	0.0682	7.5085	45.20
47	7.5081	17.45	0.0682	7.5086	45.20
48	7.5081	17.45	0.0682	7.5087	45.20
49	7.5082	17.45	0.0682	7.5088	45.20
50	7.5083	17.45	0.0682	7.5089	45.20
51	7.5084	17.45	0.0682	7.5091	45.20
52	7.5084	17.45	0.0682	7.5092	45.20
53	7.5085	17.45	0.0682	7.5093	45.20
54	7.5086	17.45	0.0682	7.5095	45.20
55	7.5087	17.45	0.0682	7.5096	45.20
56	7.5088	17.45	0.0682	7.5098	45.20
57	7.5089	17.45	0.0682	7.5099	45.20
58	7.5090	17.45	0.0682	7.5101	45.20
59	7.5091	17.45	0.0682	7.5103	45.20
60	7.5092	17.45	0.0682	7.5104	45.20
61	7.5093	17.45	0.0682	7.5106	45.20
62	7.5094	17.45	0.0682	7.5108	45.20
63	7.5096	17.45	0.0682	7.5110	45.20
64	7.5097	17.45	0.0682	7.5112	45.20
65	7.5098	17.45	0.0682	7.5113	45.20
66	7.5099	17.45	0.0682	7.5115	45.20
67	7.5100	17.45	0.0682	7.5117	45.20
68	7.5102	17.45	0.0683	7.5119	45.20
69	7.5103	17.45	0.0683	7.5122	45.20
70	7.5104	17.45	0.0683	7.5124	45.20
71	7.5106	17.45	0.0683	7.5126	45.20
72	7.5107	17.45	0.0683	7.5128	45.20
73	7.5109	17.45	0.0683	7.5130	45.20
74	7.5110	17.45	0.0683	7.5133	45.20
75	7.5112	17.45	0.0683	7.5135	45.20
76	7.5113	17.45	0.0683	7.5138	45.20
77	7.5115	17.45	0.0683	7.5140	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
78	7.5116	17.45	0.0683	7.5142	45.20
79	7.5118	17.45	0.0683	7.5145	45.20
80	7.5119	17.45	0.0683	7.5148	45.20
81	7.5121	17.45	0.0683	7.5150	45.20
82	7.5123	17.45	0.0683	7.5153	45.20
83	7.5124	17.45	0.0683	7.5155	45.20
84	7.5126	17.45	0.0683	7.5158	45.20
85	7.5128	17.45	0.0683	7.5161	45.20
86	7.5130	17.45	0.0683	7.5164	45.20
87	7.5131	17.45	0.0683	7.5167	45.20
88	7.5133	17.45	0.0683	7.5170	45.20
89	7.5135	17.45	0.0683	7.5173	45.20
90	7.5137	17.45	0.0683	7.5176	45.20
91	7.5139	17.45	0.0683	7.5179	45.20
92	7.5141	17.45	0.0683	7.5182	45.20
93	7.5143	17.45	0.0683	7.5185	45.20
94	7.5145	17.45	0.0683	7.5188	45.20
95	7.5147	17.45	0.0683	7.5191	45.20
96	7.5149	17.45	0.0683	7.5194	45.20
97	7.5151	17.45	0.0683	7.5198	45.20
98	7.5153	17.45	0.0683	7.5201	45.20
99	7.5155	17.45	0.0683	7.5204	45.20
100	7.5157	17.45	0.0683	7.5208	45.20
101	7.5159	17.45	0.0683	7.5211	45.20
102	7.5162	17.45	0.0683	7.5214	45.20
103	7.5164	17.45	0.0683	7.5218	45.20
104	7.5166	17.45	0.0683	7.5222	45.20
105	7.5168	17.45	0.0683	7.5225	45.20
106	7.5171	17.45	0.0683	7.5229	45.20
107	7.5173	17.45	0.0683	7.5232	45.20
108	7.5175	17.45	0.0683	7.5236	45.20
109	7.5178	17.45	0.0683	7.5240	45.20
110	7.5180	17.45	0.0683	7.5244	45.20
111	7.5182	17.45	0.0683	7.5247	45.20
112	7.5185	17.45	0.0683	7.5251	45.20
113	7.5187	17.45	0.0683	7.5255	45.20
114	7.5190	17.45	0.0683	7.5259	45.20
115	7.5192	17.45	0.0683	7.5263	45.20
116	7.5195	17.45	0.0683	7.5267	45.20
117	7.5197	17.45	0.0683	7.5271	45.20
118	7.5200	17.45	0.0683	7.5275	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
119	7.5203	17.45	0.0684	7.5279	45.20
120	7.5205	17.45	0.0684	7.5284	45.20
121	7.5208	17.45	0.0684	7.5288	45.20
122	7.5211	17.45	0.0684	7.5292	45.20
123	7.5213	17.45	0.0684	7.5296	45.20
124	7.5216	17.45	0.0684	7.5301	45.20
125	7.5219	17.45	0.0684	7.5305	45.20
126	7.5222	17.45	0.0684	7.5309	45.20
127	7.5224	17.45	0.0684	7.5314	45.20
128	7.5227	17.45	0.0684	7.5318	45.20
129	7.5230	17.45	0.0684	7.5323	45.20
130	7.5233	17.45	0.0684	7.5327	45.20
131	7.5236	17.45	0.0684	7.5332	45.20
132	7.5239	17.45	0.0684	7.5336	45.20
133	7.5242	17.45	0.0684	7.5341	45.20
134	7.5245	17.45	0.0684	7.5346	45.20
135	7.5248	17.45	0.0684	7.5350	45.20
136	7.5251	17.45	0.0684	7.5355	45.20
137	7.5254	17.45	0.0684	7.5360	45.20
138	7.5257	17.45	0.0684	7.5365	45.20
139	7.5260	17.45	0.0684	7.5370	45.20
140	7.5263	17.45	0.0684	7.5374	45.20
141	7.5266	17.45	0.0684	7.5379	45.20
142	7.5269	17.45	0.0684	7.5384	45.20
143	7.5272	17.45	0.0684	7.5389	45.20
144	7.5276	17.45	0.0684	7.5394	45.20
145	7.5279	17.45	0.0684	7.5399	45.20
146	7.5282	17.45	0.0684	7.5404	45.20
147	7.5285	17.45	0.0684	7.5410	45.20
148	7.5289	17.45	0.0684	7.5415	45.20
149	7.5292	17.45	0.0684	7.5420	45.20
150	7.5295	17.45	0.0684	7.5425	45.20
151	7.5299	17.45	0.0684	7.5430	45.20
152	7.5302	17.45	0.0684	7.5436	45.20
153	7.5305	17.45	0.0685	7.5441	45.20
154	7.5309	17.45	0.0685	7.5447	45.20
155	7.5312	17.45	0.0685	7.5452	45.20
156	7.5316	17.45	0.0685	7.5457	45.20
157	7.5319	17.45	0.0685	7.5463	45.20
158	7.5323	17.45	0.0685	7.5468	45.20
159	7.5326	17.45	0.0685	7.5474	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
160	7.5330	17.45	0.0685	7.5479	45.20
161	7.5333	17.45	0.0685	7.5485	45.20
162	7.5337	17.45	0.0685	7.5491	45.20
163	7.5341	17.45	0.0685	7.5496	45.20
164	7.5344	17.45	0.0685	7.5502	45.20
165	7.5348	17.45	0.0685	7.5508	45.20
166	7.5352	17.45	0.0685	7.5514	45.20
167	7.5355	17.45	0.0685	7.5519	45.20
168	7.5359	17.45	0.0685	7.5525	45.20
169	7.5363	17.45	0.0685	7.5531	45.20
170	7.5367	17.45	0.0685	7.5537	45.20
171	7.5371	17.45	0.0685	7.5543	45.20
172	7.5374	17.45	0.0685	7.5549	45.20
173	7.5378	17.45	0.0685	7.5555	45.20
174	7.5382	17.45	0.0685	7.5561	45.20
175	7.5386	17.45	0.0685	7.5567	45.20
176	7.5390	17.45	0.0685	7.5573	45.20
177	7.5394	17.45	0.0685	7.5579	45.20
178	7.5398	17.45	0.0685	7.5586	45.20
179	7.5402	17.45	0.0685	7.5592	45.20
180	7.5406	17.45	0.0685	7.5598	45.20
181	7.5410	17.45	0.0686	7.5604	45.20
182	7.5414	17.45	0.0686	7.5611	45.20
183	7.5418	17.45	0.0686	7.5617	45.20
184	7.5422	17.45	0.0686	7.5623	45.20
185	7.5426	17.45	0.0686	7.5630	45.20
186	7.5430	17.45	0.0686	7.5636	45.20
187	7.5434	17.45	0.0686	7.5642	45.20
188	7.5438	17.45	0.0686	7.5649	45.20
189	7.5443	17.45	0.0686	7.5655	45.20
190	7.5447	17.45	0.0686	7.5662	45.20
191	7.5451	17.45	0.0686	7.5669	45.20
192	7.5455	17.45	0.0686	7.5675	45.20
193	7.5460	17.45	0.0686	7.5682	45.20
194	7.5464	17.45	0.0686	7.5689	45.20
195	7.5468	17.45	0.0686	7.5695	45.20
196	7.5473	17.45	0.0686	7.5702	45.20
197	7.5477	17.45	0.0686	7.5709	45.20
198	7.5481	17.45	0.0686	7.5715	45.20
199	7.5486	17.45	0.0686	7.5722	45.20
200	7.5490	17.45	0.0686	7.5729	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
201	7.5494	17.45	0.0686	7.5736	45.20
202	7.5499	17.45	0.0686	7.5743	45.20
203	7.5503	17.45	0.0686	7.5750	45.20
204	7.5508	17.45	0.0686	7.5757	45.20
205	7.5512	17.45	0.0687	7.5764	45.20
206	7.5517	17.45	0.0687	7.5771	45.20
207	7.5522	17.45	0.0687	7.5778	45.20
208	7.5526	17.45	0.0687	7.5785	45.20
209	7.5531	17.45	0.0687	7.5792	45.20
210	7.5535	17.45	0.0687	7.5799	45.20
211	7.5540	17.45	0.0687	7.5807	45.20
212	7.5545	17.45	0.0687	7.5814	45.20
213	7.5549	17.45	0.0687	7.5821	45.20
214	7.5554	17.45	0.0687	7.5828	45.20
215	7.5559	17.45	0.0687	7.5836	45.20
216	7.5563	17.45	0.0687	7.5843	45.20
217	7.5568	17.45	0.0687	7.5850	45.20
218	7.5573	17.45	0.0687	7.5858	45.20
219	7.5578	17.45	0.0687	7.5865	45.20
220	7.5583	17.45	0.0687	7.5872	45.20
221	7.5587	17.45	0.0687	7.5880	45.20
222	7.5592	17.45	0.0687	7.5887	45.20
223	7.5597	17.45	0.0687	7.5895	45.20
224	7.5602	17.45	0.0687	7.5903	45.20
225	7.5607	17.45	0.0687	7.5910	45.20
226	7.5612	17.45	0.0688	7.5918	45.20
227	7.5617	17.45	0.0688	7.5925	45.20
228	7.5622	17.45	0.0688	7.5933	45.20
229	7.5627	17.45	0.0688	7.5941	45.20
230	7.5632	17.45	0.0688	7.5948	45.20
231	7.5637	17.45	0.0688	7.5956	45.20
232	7.5642	17.45	0.0688	7.5964	45.20
233	7.5647	17.45	0.0688	7.5972	45.20
234	7.5652	17.45	0.0688	7.5980	45.20
235	7.5657	17.45	0.0688	7.5988	45.20
236	7.5662	17.45	0.0688	7.5995	45.20
237	7.5667	17.45	0.0688	7.6003	45.20
238	7.5673	17.45	0.0688	7.6011	45.20
239	7.5678	17.45	0.0688	7.6019	45.20
240	7.5683	17.45	0.0688	7.6027	45.20
241	7.5688	17.45	0.0688	7.6035	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
242	7.5693	17.45	0.0688	7.6043	45.20
243	7.5699	17.45	0.0688	7.6051	45.20
244	7.5704	17.45	0.0688	7.6060	45.20
245	7.5709	17.45	0.0688	7.6068	45.20
246	7.5714	17.45	0.0688	7.6076	45.20
247	7.5720	17.45	0.0689	7.6084	45.20
248	7.5725	17.45	0.0689	7.6092	45.20
249	7.5731	17.45	0.0689	7.6101	45.20
250	7.5736	17.45	0.0689	7.6109	45.20
251	7.5741	17.45	0.0689	7.6117	45.20
252	7.5747	17.45	0.0689	7.6126	45.20
253	7.5752	17.45	0.0689	7.6134	45.20
254	7.5758	17.45	0.0689	7.6142	45.20
255	7.5763	17.45	0.0689	7.6151	45.20
256	7.5769	17.45	0.0689	7.6159	45.20
257	7.5774	17.45	0.0689	7.6168	45.20
258	7.5780	17.45	0.0689	7.6176	45.20
259	7.5785	17.45	0.0689	7.6185	45.20
260	7.5791	17.45	0.0689	7.6193	45.20
261	7.5796	17.45	0.0689	7.6202	45.20
262	7.5802	17.45	0.0689	7.6210	45.20
263	7.5808	17.45	0.0689	7.6219	45.20
264	7.5813	17.45	0.0689	7.6228	45.20
265	7.5819	17.45	0.0690	7.6236	45.20
266	7.5825	17.45	0.0690	7.6245	45.20
267	7.5830	17.45	0.0690	7.6254	45.20
268	7.5836	17.45	0.0690	7.6262	45.20
269	7.5842	17.45	0.0690	7.6271	45.20
270	7.5848	17.45	0.0690	7.6280	45.20
271	7.5853	17.45	0.0690	7.6289	45.20
272	7.5859	17.45	0.0690	7.6298	45.20
273	7.5865	17.45	0.0690	7.6307	45.20
274	7.5871	17.45	0.0690	7.6315	45.20
275	7.5877	17.45	0.0690	7.6324	45.20
276	7.5882	17.45	0.0690	7.6333	45.20
277	7.5888	17.45	0.0690	7.6342	45.20
278	7.5894	17.45	0.0690	7.6351	45.20
279	7.5900	17.45	0.0690	7.6360	45.20
280	7.5906	17.45	0.0690	7.6369	45.20
281	7.5912	17.45	0.0690	7.6379	45.20
282	7.5918	17.45	0.0690	7.6388	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
283	7.5924	17.45	0.0691	7.6397	45.20
284	7.5930	17.45	0.0691	7.6406	45.20
285	7.5936	17.45	0.0691	7.6415	45.20
286	7.5942	17.45	0.0691	7.6424	45.20
287	7.5948	17.45	0.0691	7.6434	45.20
288	7.5954	17.45	0.0691	7.6443	45.20
289	7.5960	17.45	0.0691	7.6452	45.20
290	7.5966	17.45	0.0691	7.6461	45.20
291	7.5973	17.45	0.0691	7.6471	45.20
292	7.5979	17.45	0.0691	7.6480	45.20
293	7.5985	17.45	0.0691	7.6490	45.20
294	7.5991	17.45	0.0691	7.6499	45.20
295	7.5997	17.45	0.0691	7.6508	45.20
296	7.6003	17.45	0.0691	7.6518	45.20
297	7.6010	17.45	0.0691	7.6527	45.20
298	7.6016	17.45	0.0691	7.6537	45.20
299	7.6022	17.45	0.0691	7.6546	45.20
300	7.6028	17.45	0.0692	7.6556	45.20
301	7.6035	17.45	0.0692	7.6565	45.20
302	7.6041	17.45	0.0692	7.6575	45.20
303	7.6047	17.45	0.0692	7.6585	45.20
304	7.6054	17.45	0.0692	7.6594	45.20
305	7.6060	17.45	0.0692	7.6604	45.20
306	7.6067	17.45	0.0692	7.6614	45.20
307	7.6073	17.45	0.0692	7.6623	45.20
308	7.6079	17.45	0.0692	7.6633	45.20
309	7.6086	17.45	0.0692	7.6643	45.20
310	7.6092	17.45	0.0692	7.6653	45.20
311	7.6099	17.45	0.0692	7.6663	45.20
312	7.6105	17.45	0.0692	7.6672	45.20
313	7.6112	17.45	0.0692	7.6682	45.20
314	7.6118	17.45	0.0692	7.6692	45.20
315	7.6125	17.45	0.0692	7.6702	45.20
316	7.6131	17.45	0.0693	7.6712	45.20
317	7.6138	17.45	0.0693	7.6722	45.20
318	7.6145	17.45	0.0693	7.6732	45.20
319	7.6151	17.45	0.0693	7.6742	45.20
320	7.6158	17.45	0.0693	7.6752	45.20
321	7.6164	17.45	0.0693	7.6762	45.20
322	7.6171	17.45	0.0693	7.6772	45.20
323	7.6178	17.45	0.0693	7.6782	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
324	7.6184	17.45	0.0693	7.6792	45.20
325	7.6191	17.45	0.0693	7.6803	45.20
326	7.6198	17.45	0.0693	7.6813	45.20
327	7.6205	17.45	0.0693	7.6823	45.20
328	7.6211	17.45	0.0693	7.6833	45.20
329	7.6218	17.45	0.0693	7.6843	45.20
330	7.6225	17.45	0.0693	7.6854	45.20
331	7.6232	17.45	0.0693	7.6864	45.20
332	7.6239	17.45	0.0694	7.6874	45.20
333	7.6245	17.45	0.0694	7.6885	45.20
334	7.6252	17.45	0.0694	7.6895	45.20
335	7.6259	17.45	0.0694	7.6905	45.20
336	7.6266	17.45	0.0694	7.6916	45.20
337	7.6273	17.45	0.0694	7.6926	45.20
338	7.6280	17.45	0.0694	7.6937	45.20
339	7.6287	17.45	0.0694	7.6947	45.20
340	7.6294	17.45	0.0694	7.6958	45.20
341	7.6301	17.45	0.0694	7.6968	45.20
342	7.6308	17.45	0.0694	7.6979	45.20
343	7.6315	17.45	0.0694	7.6989	45.20
344	7.6322	17.45	0.0694	7.7000	45.20
345	7.6329	17.45	0.0694	7.7010	45.20
346	7.6336	17.45	0.0694	7.7021	45.20
347	7.6343	17.45	0.0695	7.7032	45.20
348	7.6350	17.45	0.0695	7.7042	45.20
349	7.6357	17.45	0.0695	7.7053	45.20
350	7.6364	17.45	0.0695	7.7064	45.20
351	7.6371	17.45	0.0695	7.7074	45.20
352	7.6379	17.45	0.0695	7.7085	45.20
353	7.6386	17.45	0.0695	7.7096	45.20
354	7.6393	17.45	0.0695	7.7107	45.20
355	7.6400	17.45	0.0695	7.7118	45.20
356	7.6407	17.45	0.0695	7.7129	45.20
357	7.6415	17.45	0.0695	7.7139	45.20
358	7.6422	17.45	0.0695	7.7150	45.20
359	7.6429	17.45	0.0695	7.7161	45.20
360	7.6436	17.45	0.0695	7.7172	45.20
361	7.6444	17.45	0.0696	7.7183	45.20
362	7.6451	17.45	0.0696	7.7194	45.20
363	7.6458	17.45	0.0696	7.7205	45.20
364	7.6466	17.45	0.0696	7.7216	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
365	7.6473	17.45	0.0696	7.7227	45.20
366	7.6481	17.45	0.0696	7.7238	45.20
367	7.6488	17.45	0.0696	7.7249	45.20
368	7.6495	17.45	0.0696	7.7260	45.20
369	7.6503	17.45	0.0696	7.7272	45.20
370	7.6510	17.45	0.0696	7.7283	45.20
371	7.6518	17.45	0.0696	7.7294	45.20
372	7.6525	17.45	0.0696	7.7305	45.20
373	7.6533	17.45	0.0696	7.7316	45.20
374	7.6540	17.45	0.0696	7.7328	45.20
375	7.6548	17.45	0.0697	7.7339	45.20
376	7.6555	17.45	0.0697	7.7350	45.20
377	7.6563	17.45	0.0697	7.7361	45.20
378	7.6570	17.45	0.0697	7.7373	45.20
379	7.6578	17.45	0.0697	7.7384	45.20
380	7.6586	17.45	0.0697	7.7395	45.20
381	7.6593	17.45	0.0697	7.7407	45.20
382	7.6601	17.45	0.0697	7.7418	45.20
383	7.6608	17.45	0.0697	7.7430	45.20
384	7.6616	17.45	0.0697	7.7441	45.20
385	7.6624	17.45	0.0697	7.7453	45.20
386	7.6632	17.45	0.0697	7.7464	45.20
387	7.6639	17.45	0.0697	7.7476	45.20
388	7.6647	17.45	0.0697	7.7487	45.20
389	7.6655	17.45	0.0698	7.7499	45.20
390	7.6662	17.45	0.0698	7.7510	45.20
391	7.6670	17.45	0.0698	7.7522	45.20
392	7.6678	17.45	0.0698	7.7534	45.20
393	7.6686	17.45	0.0698	7.7545	45.20
394	7.6694	17.45	0.0698	7.7557	45.20
395	7.6702	17.45	0.0698	7.7569	45.20
396	7.6709	17.45	0.0698	7.7580	45.20
397	7.6717	17.45	0.0698	7.7592	45.20
398	7.6725	17.45	0.0698	7.7604	45.20
399	7.6733	17.45	0.0698	7.7616	45.20
400	7.6741	17.45	0.0698	7.7627	45.20
401	7.6749	17.45	0.0698	7.7639	45.20
402	7.6757	17.45	0.0699	7.7651	45.20
403	7.6765	17.45	0.0699	7.7663	45.20
404	7.6773	17.45	0.0699	7.7675	45.20
405	7.6781	17.45	0.0699	7.7687	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
406	7.6789	17.45	0.0699	7.7698	45.20
407	7.6797	17.45	0.0699	7.7710	45.20
408	7.6805	17.45	0.0699	7.7722	45.20
409	7.6813	17.45	0.0699	7.7734	45.20
410	7.6821	17.45	0.0699	7.7746	45.20
411	7.6829	17.45	0.0699	7.7758	45.20
412	7.6837	17.45	0.0699	7.7770	45.20
413	7.6845	17.45	0.0699	7.7782	45.20
414	7.6854	17.45	0.0699	7.7795	45.20
415	7.6862	17.45	0.0700	7.7807	45.20
416	7.6870	17.45	0.0700	7.7819	45.20
417	7.6878	17.45	0.0700	7.7831	45.20
418	7.6886	17.45	0.0700	7.7843	45.20
419	7.6894	17.45	0.0700	7.7855	45.20
420	7.6903	17.45	0.0700	7.7867	45.20
421	7.6911	17.45	0.0700	7.7880	45.20
422	7.6919	17.45	0.0700	7.7892	45.20
423	7.6927	17.45	0.0700	7.7904	45.20
424	7.6936	17.45	0.0700	7.7916	45.20
425	7.6944	17.45	0.0700	7.7929	45.20
426	7.6952	17.45	0.0700	7.7941	45.20
427	7.6961	17.45	0.0700	7.7953	45.20
428	7.6969	17.45	0.0701	7.7966	45.20
429	7.6977	17.45	0.0701	7.7978	45.20
430	7.6986	17.45	0.0701	7.7990	45.20
431	7.6994	17.45	0.0701	7.8003	45.20
432	7.7003	17.45	0.0701	7.8015	45.20
433	7.7011	17.45	0.0701	7.8028	45.20
434	7.7019	17.45	0.0701	7.8040	45.20
435	7.7028	17.45	0.0701	7.8053	45.20
436	7.7036	17.45	0.0701	7.8065	45.20
437	7.7045	17.45	0.0701	7.8078	45.20
438	7.7053	17.45	0.0701	7.8090	45.20
439	7.7062	17.45	0.0701	7.8103	45.20
440	7.7070	17.45	0.0702	7.8116	45.20
441	7.7079	17.45	0.0702	7.8128	45.20
442	7.7087	17.45	0.0702	7.8141	45.20
443	7.7096	17.45	0.0702	7.8153	45.20
444	7.7105	17.45	0.0702	7.8166	45.20
445	7.7113	17.45	0.0702	7.8179	45.20
446	7.7122	17.45	0.0702	7.8192	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
447	7.7131	17.45	0.0702	7.8204	45.20
448	7.7139	17.45	0.0702	7.8217	45.20
449	7.7148	17.45	0.0702	7.8230	45.20
450	7.7157	17.45	0.0702	7.8243	45.20
451	7.7165	17.45	0.0702	7.8255	45.20
452	7.7174	17.45	0.0703	7.8268	45.20
453	7.7183	17.45	0.0703	7.8281	45.20
454	7.7191	17.45	0.0703	7.8294	45.20
455	7.7200	17.45	0.0703	7.8307	45.20
456	7.7209	17.45	0.0703	7.8320	45.20
457	7.7218	17.45	0.0703	7.8333	45.20
458	7.7226	17.45	0.0703	7.8346	45.20
459	7.7235	17.45	0.0703	7.8358	45.20
460	7.7244	17.45	0.0703	7.8371	45.20
461	7.7253	17.45	0.0703	7.8384	45.20
462	7.7262	17.45	0.0703	7.8397	45.20
463	7.7271	17.45	0.0703	7.8411	45.20
464	7.7280	17.45	0.0704	7.8424	45.20
465	7.7288	17.45	0.0704	7.8437	45.20
466	7.7297	17.45	0.0704	7.8450	45.20
467	7.7306	17.45	0.0704	7.8463	45.20
468	7.7315	17.45	0.0704	7.8476	45.20
469	7.7324	17.45	0.0704	7.8489	45.20
470	7.7333	17.45	0.0704	7.8502	45.20
471	7.7342	17.45	0.0704	7.8515	45.20
472	7.7351	17.45	0.0704	7.8529	45.20
473	7.7360	17.45	0.0704	7.8542	45.20
474	7.7369	17.45	0.0704	7.8555	45.20
475	7.7378	17.45	0.0704	7.8568	45.20
476	7.7387	17.45	0.0705	7.8582	45.20
477	7.7396	17.45	0.0705	7.8595	45.20
478	7.7406	17.45	0.0705	7.8608	45.20
479	7.7415	17.45	0.0705	7.8622	45.20
480	7.7424	17.45	0.0705	7.8635	45.20
481	7.7433	17.45	0.0705	7.8648	45.20
482	7.7442	17.45	0.0705	7.8662	45.20
483	7.7451	17.45	0.0705	7.8675	45.20
484	7.7460	17.45	0.0705	7.8689	45.20
485	7.7470	17.45	0.0705	7.8702	45.20
486	7.7479	17.45	0.0705	7.8715	45.20
487	7.7488	17.45	0.0705	7.8729	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
488	7.7497	17.45	0.0706	7.8742	45.20
489	7.7506	17.45	0.0706	7.8756	45.20
490	7.7516	17.45	0.0706	7.8769	45.20
491	7.7525	17.45	0.0706	7.8783	45.20
492	7.7534	17.45	0.0706	7.8797	45.20
493	7.7544	17.45	0.0706	7.8810	45.20
494	7.7553	17.45	0.0706	7.8824	45.20
495	7.7562	17.45	0.0706	7.8837	45.20
496	7.7572	17.45	0.0706	7.8851	45.20
497	7.7581	17.45	0.0706	7.8865	45.20
498	7.7590	17.45	0.0706	7.8878	45.20
499	7.7600	17.45	0.0707	7.8892	45.20
500	7.7609	17.45	0.0707	7.8906	45.20
501	7.7619	17.45	0.0707	7.8920	45.20
502	7.7628	17.45	0.0707	7.8933	45.20
503	7.7637	17.45	0.0707	7.8947	45.20
504	7.7647	17.45	0.0707	7.8961	45.20
505	7.7656	17.45	0.0707	7.8975	45.20
506	7.7666	17.45	0.0707	7.8988	45.20
507	7.7675	17.45	0.0707	7.9002	45.20
508	7.7685	17.45	0.0707	7.9016	45.20
509	7.7694	17.45	0.0707	7.9030	45.20
510	7.7704	17.45	0.0708	7.9044	45.20
511	7.7714	17.45	0.0708	7.9058	45.20
512	7.7723	17.45	0.0708	7.9072	45.20
513	7.7733	17.45	0.0708	7.9086	45.20
514	7.7742	17.45	0.0708	7.9100	45.20
515	7.7752	17.45	0.0708	7.9114	45.20
516	7.7762	17.45	0.0708	7.9128	45.20
517	7.7771	17.45	0.0708	7.9142	45.20
518	7.7781	17.45	0.0708	7.9156	45.20
519	7.7791	17.45	0.0708	7.9170	45.20
520	7.7800	17.45	0.0708	7.9184	45.20
521	7.7810	17.45	0.0709	7.9198	45.20
522	7.7820	17.45	0.0709	7.9212	45.20
523	7.7829	17.45	0.0709	7.9226	45.20
524	7.7839	17.45	0.0709	7.9240	45.20
525	7.7849	17.45	0.0709	7.9254	45.20
526	7.7859	17.45	0.0709	7.9269	45.20
527	7.7868	17.45	0.0709	7.9283	45.20
528	7.7878	17.45	0.0709	7.9297	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
529	7.7888	17.45	0.0709	7.9311	45.20
530	7.7898	17.45	0.0709	7.9325	45.20
531	7.7908	17.45	0.0709	7.9340	45.20
532	7.7918	17.45	0.0710	7.9354	45.20
533	7.7927	17.45	0.0710	7.9368	45.20
534	7.7937	17.45	0.0710	7.9383	45.20
535	7.7947	17.45	0.0710	7.9397	45.20
536	7.7957	17.45	0.0710	7.9411	45.20
537	7.7967	17.45	0.0710	7.9426	45.20
538	7.7977	17.45	0.0710	7.9440	45.20
539	7.7987	17.45	0.0710	7.9454	45.20
540	7.7997	17.45	0.0710	7.9469	45.20
541	7.8007	17.45	0.0710	7.9483	45.20
542	7.8017	17.45	0.0711	7.9498	45.20
543	7.8027	17.45	0.0711	7.9512	45.20
544	7.8037	17.45	0.0711	7.9527	45.20
545	7.8047	17.45	0.0711	7.9541	45.20
546	7.8057	17.45	0.0711	7.9556	45.20
547	7.8067	17.45	0.0711	7.9570	45.20
548	7.8077	17.45	0.0711	7.9585	45.20
549	7.8087	17.45	0.0711	7.9599	45.20
550	7.8097	17.45	0.0711	7.9614	45.20
551	7.8107	17.45	0.0711	7.9628	45.20
552	7.8117	17.45	0.0711	7.9643	45.20
553	7.8128	17.45	0.0712	7.9658	45.20
554	7.8138	17.45	0.0712	7.9672	45.20
555	7.8148	17.45	0.0712	7.9687	45.20
556	7.8158	17.45	0.0712	7.9702	45.20
557	7.8168	17.45	0.0712	7.9716	45.20
558	7.8178	17.45	0.0712	7.9731	45.20
559	7.8189	17.45	0.0712	7.9746	45.20
560	7.8199	17.45	0.0712	7.9760	45.20
561	7.8209	17.45	0.0712	7.9775	45.20
562	7.8219	17.45	0.0712	7.9790	45.20
563	7.8230	17.45	0.0713	7.9805	45.20
564	7.8240	17.45	0.0713	7.9819	45.20
565	7.8250	17.45	0.0713	7.9834	45.20
566	7.8261	17.45	0.0713	7.9849	45.20
567	7.8271	17.45	0.0713	7.9864	45.20
568	7.8281	17.45	0.0713	7.9879	45.20
569	7.8292	17.45	0.0713	7.9894	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
570	7.8302	17.45	0.0713	7.9909	45.20
571	7.8312	17.45	0.0713	7.9924	45.20
572	7.8323	17.45	0.0713	7.9938	45.20
573	7.8333	17.45	0.0714	7.9953	45.20
574	7.8344	17.45	0.0714	7.9968	45.20
575	7.8354	17.45	0.0714	7.9983	45.20
576	7.8364	17.45	0.0714	7.9998	45.20
577	7.8375	17.45	0.0714	8.0013	45.20
578	7.8385	17.45	0.0714	8.0028	45.20
579	7.8396	17.45	0.0714	8.0043	45.20
580	7.8406	17.45	0.0714	8.0059	45.20
581	7.8417	17.45	0.0714	8.0074	45.20
582	7.8427	17.45	0.0714	8.0089	45.20
583	7.8438	17.45	0.0715	8.0104	45.20
584	7.8448	17.45	0.0715	8.0119	45.20
585	7.8459	17.45	0.0715	8.0134	45.20
586	7.8470	17.45	0.0715	8.0149	45.20
587	7.8480	17.45	0.0715	8.0164	45.20
588	7.8491	17.45	0.0715	8.0180	45.20
589	7.8501	17.45	0.0715	8.0195	45.20
590	7.8512	17.45	0.0715	8.0210	45.20
591	7.8523	17.45	0.0715	8.0225	45.20
592	7.8533	17.45	0.0715	8.0240	45.20
593	7.8544	17.45	0.0716	8.0256	45.20
594	7.8555	17.45	0.0716	8.0271	45.20
595	7.8565	17.45	0.0716	8.0286	45.20
596	7.8576	17.45	0.0716	8.0302	45.20
597	7.8587	17.45	0.0716	8.0317	45.20
598	7.8597	17.45	0.0716	8.0332	45.20
599	7.8608	17.45	0.0716	8.0348	45.20
600	7.8619	17.45	0.0716	8.0363	45.20
601	7.8630	17.45	0.0716	8.0378	45.20
602	7.8641	17.45	0.0716	8.0394	45.20
603	7.8651	17.45	0.0717	8.0409	45.20
604	7.8662	17.45	0.0717	8.0425	45.20
605	7.8673	17.45	0.0717	8.0440	45.20
606	7.8684	17.45	0.0717	8.0455	45.20
607	7.8695	17.45	0.0717	8.0471	45.20
608	7.8705	17.45	0.0717	8.0486	45.20
609	7.8716	17.45	0.0717	8.0502	45.20
610	7.8727	17.45	0.0717	8.0517	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
611	7.8738	17.45	0.0717	8.0533	45.20
612	7.8749	17.45	0.0717	8.0549	45.20
613	7.8760	17.45	0.0718	8.0564	45.20
614	7.8771	17.45	0.0718	8.0580	45.20
615	7.8782	17.45	0.0718	8.0595	45.20
616	7.8793	17.45	0.0718	8.0611	45.20
617	7.8804	17.45	0.0718	8.0627	45.20
618	7.8815	17.45	0.0718	8.0642	45.20
619	7.8826	17.45	0.0718	8.0658	45.20
620	7.8837	17.45	0.0718	8.0673	45.20
621	7.8848	17.45	0.0718	8.0689	45.20
622	7.8859	17.45	0.0719	8.0705	45.20
623	7.8870	17.45	0.0719	8.0721	45.20
624	7.8881	17.45	0.0719	8.0736	45.20
625	7.8892	17.45	0.0719	8.0752	45.20
626	7.8903	17.45	0.0719	8.0768	45.20
627	7.8914	17.45	0.0719	8.0784	45.20
628	7.8925	17.45	0.0719	8.0799	45.20
629	7.8936	17.45	0.0719	8.0815	45.20
630	7.8948	17.45	0.0719	8.0831	45.20
631	7.8959	17.45	0.0719	8.0847	45.20
632	7.8970	17.45	0.0720	8.0863	45.20
633	7.8981	17.45	0.0720	8.0878	45.20
634	7.8992	17.45	0.0720	8.0894	45.20
635	7.9003	17.45	0.0720	8.0910	45.20
636	7.9015	17.45	0.0720	8.0926	45.20
637	7.9026	17.45	0.0720	8.0942	45.20
638	7.9037	17.45	0.0720	8.0958	45.20
639	7.9048	17.45	0.0720	8.0974	45.20
640	7.9060	17.45	0.0720	8.0990	45.20
641	7.9071	17.45	0.0721	8.1006	45.20
642	7.9082	17.45	0.0721	8.1022	45.20
643	7.9093	17.45	0.0721	8.1038	45.20
644	7.9105	17.45	0.0721	8.1054	45.20
645	7.9116	17.45	0.0721	8.1070	45.20
646	7.9127	17.45	0.0721	8.1086	45.20
647	7.9139	17.45	0.0721	8.1102	45.20
648	7.9150	17.45	0.0721	8.1118	45.20
649	7.9161	17.45	0.0721	8.1134	45.20
650	7.9173	17.45	0.0721	8.1150	45.20
651	7.9184	17.45	0.0721	8.1166	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
652	7.9196	17.45	0.0722	8.1182	45.20
653	7.9207	17.45	0.0722	8.1199	45.20
654	7.9218	17.45	0.0722	8.1215	45.20
655	7.9230	17.45	0.0722	8.1231	45.20
656	7.9241	17.45	0.0722	8.1247	45.20
657	7.9253	17.45	0.0722	8.1263	45.20
658	7.9264	17.45	0.0722	8.1280	45.20
659	7.9276	17.45	0.0722	8.1296	45.20
660	7.9287	17.45	0.0722	8.1312	45.20
661	7.9299	17.45	0.0722	8.1328	45.20
662	7.9310	17.45	0.0722	8.1345	45.20
663	7.9322	17.45	0.0722	8.1361	45.20
664	7.9333	17.45	0.0722	8.1377	45.20
665	7.9345	17.45	0.0722	8.1394	45.20
666	7.9356	17.45	0.0722	8.1410	45.20
667	7.9368	17.45	0.0722	8.1426	45.20
668	7.9380	17.45	0.0723	8.1443	45.20
669	7.9391	17.45	0.0723	8.1459	45.20
670	7.9403	17.45	0.0723	8.1475	45.20
671	7.9414	17.45	0.0723	8.1492	45.20
672	7.9426	17.45	0.0723	8.1508	45.20
673	7.9438	17.45	0.0723	8.1525	45.20
674	7.9449	17.45	0.0723	8.1541	45.20
675	7.9461	17.45	0.0723	8.1558	45.20
676	7.9473	17.45	0.0723	8.1574	45.20
677	7.9485	17.45	0.0723	8.1591	45.20
678	7.9496	17.45	0.0723	8.1607	45.20
679	7.9508	17.45	0.0723	8.1624	45.20
680	7.9520	17.45	0.0723	8.1640	45.20
681	7.9531	17.45	0.0723	8.1657	45.20
682	7.9543	17.45	0.0723	8.1673	45.20
683	7.9555	17.45	0.0723	8.1690	45.20
684	7.9567	17.45	0.0724	8.1706	45.20
685	7.9579	17.45	0.0724	8.1723	45.20
686	7.9590	17.45	0.0724	8.1740	45.20
687	7.9602	17.45	0.0724	8.1756	45.20
688	7.9614	17.45	0.0724	8.1773	45.20
689	7.9626	17.45	0.0724	8.1790	45.20
690	7.9638	17.45	0.0724	8.1806	45.20
691	7.9650	17.45	0.0724	8.1823	45.20
692	7.9661	17.45	0.0724	8.1840	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
693	7.9673	17.45	0.0724	8.1856	45.20
694	7.9685	17.45	0.0724	8.1873	45.20
695	7.9697	17.45	0.0724	8.1890	45.20
696	7.9709	17.45	0.0724	8.1907	45.20
697	7.9721	17.45	0.0724	8.1923	45.20
698	7.9733	17.45	0.0724	8.1940	45.20
699	7.9745	17.45	0.0725	8.1957	45.20
700	7.9757	17.45	0.0725	8.1974	45.20
701	7.9769	17.45	0.0725	8.1991	45.20
702	7.9781	17.45	0.0725	8.2008	45.20
703	7.9793	17.45	0.0725	8.2024	45.20
704	7.9805	17.45	0.0725	8.2041	45.20
705	7.9817	17.45	0.0725	8.2058	45.20
706	7.9829	17.45	0.0725	8.2075	45.20
707	7.9841	17.45	0.0725	8.2092	45.20
708	7.9853	17.45	0.0725	8.2109	45.20
709	7.9865	17.45	0.0725	8.2126	45.20
710	7.9877	17.45	0.0725	8.2143	45.20
711	7.9889	17.45	0.0725	8.2160	45.20
712	7.9901	17.45	0.0725	8.2177	45.20
713	7.9913	17.45	0.0725	8.2194	45.20
714	7.9926	17.45	0.0726	8.2211	45.20
715	7.9938	17.45	0.0726	8.2228	45.20
716	7.9950	17.45	0.0726	8.2245	45.20
717	7.9962	17.45	0.0726	8.2262	45.20
718	7.9974	17.45	0.0726	8.2279	45.20
719	7.9986	17.45	0.0726	8.2296	45.20
720	7.9999	17.45	0.0726	8.2313	45.20
721	8.0011	17.45	0.0726	8.2330	45.20
722	8.0023	17.45	0.0726	8.2347	45.20
723	8.0035	17.45	0.0726	8.2365	45.20
724	8.0047	17.45	0.0726	8.2382	45.20
725	8.0060	17.45	0.0726	8.2399	45.20
726	8.0072	17.45	0.0726	8.2416	45.20
727	8.0084	17.45	0.0726	8.2433	45.20
728	8.0097	17.45	0.0726	8.2450	45.20
729	8.0109	17.45	0.0727	8.2468	45.20
730	8.0121	17.45	0.0727	8.2485	45.20
731	8.0133	17.45	0.0727	8.2502	45.20
732	8.0146	17.45	0.0727	8.2519	45.20
733	8.0158	17.45	0.0727	8.2537	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
734	8.0171	17.45	0.0727	8.2554	45.20
735	8.0183	17.45	0.0727	8.2571	45.20
736	8.0195	17.45	0.0727	8.2589	45.20
737	8.0208	17.45	0.0727	8.2606	45.20
738	8.0220	17.45	0.0727	8.2623	45.20
739	8.0232	17.45	0.0727	8.2641	45.20
740	8.0245	17.45	0.0727	8.2658	45.20
741	8.0257	17.45	0.0727	8.2675	45.20
742	8.0270	17.45	0.0727	8.2693	45.20
743	8.0282	17.45	0.0727	8.2710	45.20
744	8.0295	17.45	0.0728	8.2727	45.20
745	8.0307	17.45	0.0728	8.2745	45.20
746	8.0320	17.45	0.0728	8.2762	45.20
747	8.0332	17.45	0.0728	8.2780	45.20
748	8.0345	17.45	0.0728	8.2797	45.20
749	8.0357	17.45	0.0728	8.2815	45.20
750	8.0370	17.45	0.0728	8.2832	45.20
751	8.0382	17.45	0.0728	8.2850	45.20
752	8.0395	17.45	0.0728	8.2867	45.20
753	8.0407	17.45	0.0728	8.2885	45.20
754	8.0420	17.45	0.0728	8.2902	45.20
755	8.0432	17.45	0.0728	8.2920	45.20
756	8.0445	17.45	0.0728	8.2937	45.20
757	8.0458	17.45	0.0728	8.2955	45.20
758	8.0470	17.45	0.0728	8.2973	45.20
759	8.0483	17.45	0.0729	8.2990	45.20
760	8.0495	17.45	0.0729	8.3008	45.20
761	8.0508	17.45	0.0729	8.3025	45.20
762	8.0521	17.45	0.0729	8.3043	45.20
763	8.0533	17.45	0.0729	8.3061	45.20
764	8.0546	17.45	0.0729	8.3078	45.20
765	8.0559	17.45	0.0729	8.3096	45.20
766	8.0571	17.45	0.0729	8.3114	45.20
767	8.0584	17.45	0.0729	8.3132	45.20
768	8.0597	17.45	0.0729	8.3149	45.20
769	8.0610	17.45	0.0729	8.3167	45.20
770	8.0622	17.45	0.0729	8.3185	45.20
771	8.0635	17.45	0.0729	8.3203	45.20
772	8.0648	17.45	0.0729	8.3220	45.20
773	8.0661	17.45	0.0730	8.3238	45.20
774	8.0673	17.45	0.0730	8.3256	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
775	8.0686	17.45	0.0730	8.3274	45.20
776	8.0699	17.45	0.0730	8.3291	45.20
777	8.0712	17.45	0.0730	8.3309	45.20
778	8.0725	17.45	0.0730	8.3327	45.20
779	8.0737	17.45	0.0730	8.3345	45.20
780	8.0750	17.45	0.0730	8.3363	45.20
781	8.0763	17.45	0.0730	8.3381	45.20
782	8.0776	17.45	0.0730	8.3399	45.20
783	8.0789	17.45	0.0730	8.3417	45.20
784	8.0802	17.45	0.0730	8.3434	45.20
785	8.0815	17.45	0.0730	8.3452	45.20
786	8.0828	17.45	0.0730	8.3470	45.20
787	8.0841	17.45	0.0731	8.3488	45.20
788	8.0853	17.45	0.0731	8.3506	45.20
789	8.0866	17.45	0.0731	8.3524	45.20
790	8.0879	17.45	0.0731	8.3542	45.20
791	8.0892	17.45	0.0731	8.3560	45.20
792	8.0905	17.45	0.0731	8.3578	45.20
793	8.0918	17.45	0.0731	8.3596	45.20
794	8.0931	17.45	0.0731	8.3614	45.20
795	8.0944	17.45	0.0731	8.3632	45.20
796	8.0957	17.45	0.0731	8.3650	45.20
797	8.0970	17.45	0.0731	8.3669	45.20
798	8.0983	17.45	0.0731	8.3687	45.20
799	8.0996	17.45	0.0731	8.3705	45.20
800	8.1009	17.45	0.0731	8.3723	45.20
801	8.1022	17.45	0.0732	8.3741	45.20
802	8.1036	17.45	0.0732	8.3759	45.20
803	8.1049	17.45	0.0732	8.3777	45.20
804	8.1062	17.45	0.0732	8.3795	45.20
805	8.1075	17.45	0.0732	8.3814	45.20
806	8.1088	17.45	0.0732	8.3832	45.20
807	8.1101	17.45	0.0732	8.3850	45.20
808	8.1114	17.45	0.0732	8.3868	45.20
809	8.1127	17.45	0.0732	8.3886	45.20
810	8.1140	17.45	0.0732	8.3905	45.20
811	8.1154	17.45	0.0732	8.3923	45.20
812	8.1167	17.45	0.0732	8.3941	45.20
813	8.1180	17.45	0.0732	8.3959	45.20
814	8.1193	17.45	0.0732	8.3978	45.20
815	8.1206	17.45	0.0733	8.3996	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
816	8.1220	17.45	0.0733	8.4014	45.20
817	8.1233	17.45	0.0733	8.4033	45.20
818	8.1246	17.45	0.0733	8.4051	45.20
819	8.1259	17.45	0.0733	8.4069	45.20
820	8.1273	17.45	0.0733	8.4088	45.20
821	8.1286	17.45	0.0733	8.4106	45.20
822	8.1299	17.45	0.0733	8.4124	45.20
823	8.1312	17.45	0.0733	8.4143	45.20
824	8.1326	17.45	0.0733	8.4161	45.20
825	8.1339	17.45	0.0733	8.4179	45.20
826	8.1352	17.45	0.0733	8.4198	45.20
827	8.1366	17.45	0.0733	8.4216	45.20
828	8.1379	17.45	0.0733	8.4235	45.20
829	8.1392	17.45	0.0734	8.4253	45.20
830	8.1406	17.45	0.0734	8.4272	45.20
831	8.1419	17.45	0.0734	8.4290	45.20
832	8.1432	17.45	0.0734	8.4309	45.20
833	8.1446	17.45	0.0734	8.4327	45.20
834	8.1459	17.45	0.0734	8.4346	45.20
835	8.1473	17.45	0.0734	8.4364	45.20
836	8.1486	17.45	0.0734	8.4383	45.20
837	8.1500	17.45	0.0734	8.4401	45.20
838	8.1513	17.45	0.0734	8.4420	45.20
839	8.1526	17.45	0.0734	8.4438	45.20
840	8.1540	17.45	0.0734	8.4457	45.20
841	8.1553	17.45	0.0734	8.4475	45.20
842	8.1567	17.45	0.0735	8.4494	45.20
843	8.1580	17.45	0.0735	8.4513	45.20
844	8.1594	17.45	0.0735	8.4531	45.20
845	8.1607	17.45	0.0735	8.4550	45.20
846	8.1621	17.45	0.0735	8.4569	45.20
847	8.1635	17.45	0.0735	8.4587	45.20
848	8.1648	17.45	0.0735	8.4606	45.20
849	8.1662	17.45	0.0735	8.4625	45.20
850	8.1675	17.45	0.0735	8.4643	45.20
851	8.1689	17.45	0.0735	8.4662	45.20
852	8.1702	17.45	0.0735	8.4681	45.20
853	8.1716	17.45	0.0735	8.4699	45.20
854	8.1730	17.45	0.0735	8.4718	45.20
855	8.1743	17.45	0.0735	8.4737	45.20
856	8.1757	17.45	0.0736	8.4756	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
857	8.1771	17.45	0.0736	8.4774	45.20
858	8.1784	17.45	0.0736	8.4793	45.20
859	8.1798	17.45	0.0736	8.4812	45.20
860	8.1812	17.45	0.0736	8.4831	45.20
861	8.1825	17.45	0.0736	8.4850	45.20
862	8.1839	17.45	0.0736	8.4868	45.20
863	8.1853	17.45	0.0736	8.4887	45.20
864	8.1866	17.45	0.0736	8.4906	45.20
865	8.1880	17.45	0.0736	8.4925	45.20
866	8.1894	17.45	0.0736	8.4944	45.20
867	8.1908	17.45	0.0736	8.4963	45.20
868	8.1921	17.45	0.0736	8.4981	45.20
869	8.1935	17.45	0.0737	8.5000	45.20
870	8.1949	17.45	0.0737	8.5019	45.20
871	8.1963	17.45	0.0737	8.5038	45.20
872	8.1976	17.45	0.0737	8.5057	45.20
873	8.1990	17.45	0.0737	8.5076	45.20
874	8.2004	17.45	0.0737	8.5095	45.20
875	8.2018	17.45	0.0737	8.5114	45.20
876	8.2032	17.45	0.0737	8.5133	45.20
877	8.2046	17.45	0.0737	8.5152	45.20
878	8.2059	17.45	0.0737	8.5171	45.20
879	8.2073	17.45	0.0737	8.5190	45.20
880	8.2087	17.45	0.0737	8.5209	45.20
881	8.2101	17.45	0.0737	8.5228	45.20
882	8.2115	17.45	0.0738	8.5247	45.20
883	8.2129	17.45	0.0738	8.5266	45.20
884	8.2143	17.45	0.0738	8.5285	45.20
885	8.2157	17.45	0.0738	8.5304	45.20
886	8.2171	17.45	0.0738	8.5323	45.20
887	8.2185	17.45	0.0738	8.5342	45.20
888	8.2199	17.45	0.0738	8.5361	45.20
889	8.2213	17.45	0.0738	8.5380	45.20
890	8.2227	17.45	0.0738	8.5400	45.20
891	8.2241	17.45	0.0738	8.5419	45.20
892	8.2255	17.45	0.0738	8.5438	45.20
893	8.2269	17.45	0.0738	8.5457	45.20
894	8.2283	17.45	0.0738	8.5476	45.20
895	8.2297	17.45	0.0739	8.5495	45.20
896	8.2311	17.45	0.0739	8.5514	45.20
897	8.2325	17.45	0.0739	8.5534	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
898	8.2339	17.45	0.0739	8.5553	45.20
899	8.2353	17.45	0.0739	8.5572	45.20
900	8.2367	17.45	0.0739	8.5591	45.20
901	8.2381	17.45	0.0739	8.5611	45.20
902	8.2395	17.45	0.0739	8.5630	45.20
903	8.2409	17.45	0.0739	8.5649	45.20
904	8.2423	17.45	0.0739	8.5668	45.20
905	8.2437	17.45	0.0739	8.5688	45.20
906	8.2452	17.45	0.0739	8.5707	45.20
907	8.2466	17.45	0.0739	8.5726	45.20
908	8.2480	17.45	0.0740	8.5745	45.20
909	8.2494	17.45	0.0740	8.5765	45.20
910	8.2508	17.45	0.0740	8.5784	45.20
911	8.2522	17.45	0.0740	8.5803	45.20
912	8.2537	17.45	0.0740	8.5823	45.20
913	8.2551	17.45	0.0740	8.5842	45.20
914	8.2565	17.45	0.0740	8.5861	45.20
915	8.2579	17.45	0.0740	8.5881	45.20
916	8.2593	17.45	0.0740	8.5900	45.20
917	8.2608	17.45	0.0740	8.5920	45.20
918	8.2622	17.45	0.0740	8.5939	45.20
919	8.2636	17.45	0.0740	8.5958	45.20
920	8.2650	17.45	0.0740	8.5978	45.20
921	8.2665	17.45	0.0741	8.5997	45.20
922	8.2679	17.45	0.0741	8.6017	45.20
923	8.2693	17.45	0.0741	8.6036	45.20
924	8.2708	17.45	0.0741	8.6056	45.20
925	8.2722	17.45	0.0741	8.6075	45.20
926	8.2736	17.45	0.0741	8.6095	45.20
927	8.2751	17.45	0.0741	8.6114	45.20
928	8.2765	17.45	0.0741	8.6134	45.20
929	8.2779	17.45	0.0741	8.6153	45.20
930	8.2794	17.45	0.0741	8.6173	45.20
931	8.2808	17.45	0.0741	8.6192	45.20
932	8.2822	17.45	0.0741	8.6212	45.20
933	8.2837	17.45	0.0741	8.6231	45.20
934	8.2851	17.45	0.0742	8.6251	45.20
935	8.2866	17.45	0.0742	8.6270	45.20
936	8.2880	17.45	0.0742	8.6290	45.20
937	8.2895	17.45	0.0742	8.6309	45.20
938	8.2909	17.45	0.0742	8.6329	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
939	8.2923	17.45	0.0742	8.6349	45.20
940	8.2938	17.45	0.0742	8.6368	45.20
941	8.2952	17.45	0.0742	8.6388	45.20
942	8.2967	17.45	0.0742	8.6408	45.20
943	8.2981	17.45	0.0742	8.6427	45.20
944	8.2996	17.45	0.0742	8.6447	45.20
945	8.3010	17.45	0.0742	8.6467	45.20
946	8.3025	17.45	0.0743	8.6486	45.20
947	8.3039	17.45	0.0743	8.6506	45.20
948	8.3054	17.45	0.0743	8.6526	45.20
949	8.3069	17.45	0.0743	8.6545	45.20
950	8.3083	17.45	0.0743	8.6565	45.20
951	8.3098	17.45	0.0743	8.6585	45.20
952	8.3112	17.45	0.0743	8.6604	45.20
953	8.3127	17.45	0.0743	8.6624	45.20
954	8.3141	17.45	0.0743	8.6644	45.20
955	8.3156	17.45	0.0743	8.6664	45.20
956	8.3171	17.45	0.0743	8.6683	45.20
957	8.3185	17.45	0.0743	8.6703	45.20
958	8.3200	17.45	0.0743	8.6723	45.20
959	8.3215	17.45	0.0744	8.6743	45.20
960	8.3229	17.45	0.0744	8.6763	45.20
961	8.3244	17.45	0.0744	8.6782	45.20
962	8.3258	17.45	0.0744	8.6802	45.20
963	8.3273	17.45	0.0744	8.6822	45.20
964	8.3288	17.45	0.0744	8.6842	45.20
965	8.3303	17.45	0.0744	8.6862	45.20
966	8.3317	17.45	0.0744	8.6882	45.20
967	8.3332	17.45	0.0744	8.6902	45.20
968	8.3347	17.45	0.0744	8.6921	45.20
969	8.3361	17.45	0.0744	8.6941	45.20
970	8.3376	17.45	0.0744	8.6961	45.20
971	8.3391	17.45	0.0745	8.6981	45.20
972	8.3406	17.45	0.0745	8.7001	45.20
973	8.3420	17.45	0.0745	8.7021	45.20
974	8.3435	17.45	0.0745	8.7041	45.20
975	8.3450	17.45	0.0745	8.7061	45.20
976	8.3465	17.45	0.0745	8.7081	45.20
977	8.3480	17.45	0.0745	8.7101	45.20
978	8.3494	17.45	0.0745	8.7121	45.20
979	8.3509	17.45	0.0745	8.7141	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
980	8.3524	17.45	0.0745	8.7161	45.20
981	8.3539	17.45	0.0745	8.7181	45.20
982	8.3554	17.45	0.0745	8.7201	45.20
983	8.3569	17.45	0.0745	8.7221	45.20
984	8.3584	17.45	0.0746	8.7241	45.20
985	8.3598	17.45	0.0746	8.7261	45.20
986	8.3613	17.45	0.0746	8.7281	45.20
987	8.3628	17.45	0.0746	8.7301	45.20
988	8.3643	17.45	0.0746	8.7321	45.20
989	8.3658	17.45	0.0746	8.7341	45.20
990	8.3673	17.45	0.0746	8.7361	45.20
991	8.3688	17.45	0.0746	8.7381	45.20
992	8.3703	17.45	0.0746	8.7401	45.20
993	8.3718	17.45	0.0746	8.7421	45.20
994	8.3733	17.45	0.0746	8.7442	45.20
995	8.3748	17.45	0.0746	8.7462	45.20
996	8.3763	17.45	0.0747	8.7482	45.20
997	8.3778	17.45	0.0747	8.7502	45.20
998	8.3793	17.45	0.0747	8.7522	45.20
999	8.3808	17.45	0.0747	8.7542	45.20
1000	8.3823	17.45	0.0747	8.7563	45.20
1001	8.3838	17.45	0.0747	8.7583	45.20
1002	8.3853	17.45	0.0747	8.7603	45.20
1003	8.3868	17.45	0.0747	8.7623	45.20
1004	8.3883	17.45	0.0747	8.7643	45.20
1005	8.3898	17.45	0.0747	8.7664	45.20
1006	8.3913	17.45	0.0747	8.7684	45.20
1007	8.3928	17.45	0.0747	8.7704	45.20
1008	8.3943	17.45	0.0748	8.7724	45.20
1009	8.3958	17.45	0.0748	8.7744	45.20
1010	8.3973	17.45	0.0748	8.7765	45.20
1011	8.3988	17.45	0.0748	8.7785	45.20
1012	8.4003	17.45	0.0748	8.7805	45.20
1013	8.4019	17.45	0.0748	8.7826	45.20
1014	8.4034	17.45	0.0748	8.7846	45.20
1015	8.4049	17.45	0.0748	8.7866	45.20
1016	8.4064	17.45	0.0748	8.7887	45.20
1017	8.4079	17.45	0.0748	8.7907	45.20
1018	8.4094	17.45	0.0748	8.7927	45.20
1019	8.4110	17.45	0.0748	8.7948	45.20
1020	8.4125	17.45	0.0749	8.7968	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1021	8.4140	17.45	0.0749	8.7988	45.20
1022	8.4155	17.45	0.0749	8.8009	45.20
1023	8.4170	17.45	0.0749	8.8029	45.20
1024	8.4186	17.45	0.0749	8.8049	45.20
1025	8.4201	17.45	0.0749	8.8070	45.20
1026	8.4216	17.45	0.0749	8.8090	45.20
1027	8.4231	17.45	0.0749	8.8111	45.20
1028	8.4247	17.45	0.0749	8.8131	45.20
1029	8.4262	17.45	0.0749	8.8151	45.20
1030	8.4277	17.45	0.0749	8.8172	45.20
1031	8.4292	17.45	0.0749	8.8192	45.20
1032	8.4308	17.45	0.0750	8.8213	45.20
1033	8.4323	17.45	0.0750	8.8233	45.20
1034	8.4338	17.45	0.0750	8.8254	45.20
1035	8.4354	17.45	0.0750	8.8274	45.20
1036	8.4369	17.45	0.0750	8.8295	45.20
1037	8.4384	17.45	0.0750	8.8315	45.20
1038	8.4400	17.45	0.0750	8.8336	45.20
1039	8.4415	17.45	0.0750	8.8356	45.20
1040	8.4430	17.45	0.0750	8.8377	45.20
1041	8.4446	17.45	0.0750	8.8397	45.20
1042	8.4461	17.45	0.0750	8.8418	45.20
1043	8.4476	17.45	0.0750	8.8438	45.20
1044	8.4492	17.45	0.0751	8.8459	45.20
1045	8.4507	17.45	0.0751	8.8479	45.20
1046	8.4523	17.45	0.0751	8.8500	45.20
1047	8.4538	17.45	0.0751	8.8521	45.20
1048	8.4554	17.45	0.0751	8.8541	45.20
1049	8.4569	17.45	0.0751	8.8562	45.20
1050	8.4584	17.45	0.0751	8.8582	45.20
1051	8.4600	17.45	0.0751	8.8603	45.20
1052	8.4615	17.45	0.0751	8.8624	45.20
1053	8.4631	17.45	0.0751	8.8644	45.20
1054	8.4646	17.45	0.0751	8.8665	45.20
1055	8.4662	17.45	0.0751	8.8685	45.20
1056	8.4677	17.45	0.0752	8.8706	45.20
1057	8.4693	17.45	0.0752	8.8727	45.20
1058	8.4708	17.45	0.0752	8.8747	45.20
1059	8.4724	17.45	0.0752	8.8768	45.20
1060	8.4739	17.45	0.0752	8.8789	45.20
1061	8.4755	17.45	0.0752	8.8810	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1062	8.4770	17.45	0.0752	8.8830	45.20
1063	8.4786	17.45	0.0752	8.8851	45.20
1064	8.4802	17.45	0.0752	8.8872	45.20
1065	8.4817	17.45	0.0752	8.8892	45.20
1066	8.4833	17.45	0.0752	8.8913	45.20
1067	8.4848	17.45	0.0753	8.8934	45.20
1068	8.4864	17.45	0.0753	8.8955	45.20
1069	8.4879	17.45	0.0753	8.8975	45.20
1070	8.4895	17.45	0.0753	8.8996	45.20
1071	8.4911	17.45	0.0753	8.9017	45.20
1072	8.4926	17.45	0.0753	8.9038	45.20
1073	8.4942	17.45	0.0753	8.9059	45.20
1074	8.4958	17.45	0.0753	8.9079	45.20
1075	8.4973	17.45	0.0753	8.9100	45.20
1076	8.4989	17.45	0.0753	8.9121	45.20
1077	8.5005	17.45	0.0753	8.9142	45.20
1078	8.5020	17.45	0.0753	8.9163	45.20
1079	8.5036	17.45	0.0754	8.9183	45.20
1080	8.5052	17.45	0.0754	8.9204	45.20
1081	8.5067	17.45	0.0754	8.9225	45.20
1082	8.5083	17.45	0.0754	8.9246	45.20
1083	8.5099	17.45	0.0754	8.9267	45.20
1084	8.5115	17.45	0.0754	8.9288	45.20
1085	8.5130	17.45	0.0754	8.9309	45.20
1086	8.5146	17.45	0.0754	8.9330	45.20
1087	8.5162	17.45	0.0754	8.9350	45.20
1088	8.5178	17.45	0.0754	8.9371	45.20
1089	8.5193	17.45	0.0754	8.9392	45.20
1090	8.5209	17.45	0.0754	8.9413	45.20
1091	8.5225	17.45	0.0755	8.9434	45.20
1092	8.5241	17.45	0.0755	8.9455	45.20
1093	8.5256	17.45	0.0755	8.9476	45.20
1094	8.5272	17.45	0.0755	8.9497	45.20
1095	8.5288	17.45	0.0755	8.9518	45.20
1096	8.5304	17.45	0.0755	8.9539	45.20
1097	8.5320	17.45	0.0755	8.9560	45.20
1098	8.5336	17.45	0.0755	8.9581	45.20
1099	8.5351	17.45	0.0755	8.9602	45.20
1100	8.5367	17.45	0.0755	8.9623	45.20
1101	8.5383	17.45	0.0755	8.9644	45.20
1102	8.5399	17.45	0.0756	8.9665	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1103	8.5415	17.45	0.0756	8.9686	45.20
1104	8.5431	17.45	0.0756	8.9707	45.20
1105	8.5447	17.45	0.0756	8.9728	45.20
1106	8.5463	17.45	0.0756	8.9749	45.20
1107	8.5479	17.45	0.0756	8.9770	45.20
1108	8.5495	17.45	0.0756	8.9791	45.20
1109	8.5510	17.45	0.0756	8.9812	45.20
1110	8.5526	17.45	0.0756	8.9834	45.20
1111	8.5542	17.45	0.0756	8.9855	45.20
1112	8.5558	17.45	0.0756	8.9876	45.20
1113	8.5574	17.45	0.0757	8.9897	45.20
1114	8.5590	17.45	0.0757	8.9918	45.20
1115	8.5606	17.45	0.0757	8.9939	45.20
1116	8.5622	17.45	0.0757	8.9960	45.20
1117	8.5638	17.45	0.0757	8.9981	45.20
1118	8.5654	17.45	0.0757	9.0003	45.20
1119	8.5670	17.45	0.0757	9.0024	45.20
1120	8.5686	17.45	0.0757	9.0045	45.20
1121	8.5702	17.45	0.0757	9.0066	45.20
1122	8.5718	17.45	0.0757	9.0087	45.20
1123	8.5734	17.45	0.0757	9.0108	45.20
1124	8.5750	17.45	0.0757	9.0130	45.20
1125	8.5766	17.45	0.0758	9.0151	45.20
1126	8.5782	17.45	0.0758	9.0172	45.20
1127	8.5799	17.45	0.0758	9.0193	45.20
1128	8.5815	17.45	0.0758	9.0214	45.20
1129	8.5831	17.45	0.0758	9.0236	45.20
1130	8.5847	17.45	0.0758	9.0257	45.20
1131	8.5863	17.45	0.0758	9.0278	45.20
1132	8.5879	17.45	0.0758	9.0299	45.20
1133	8.5895	17.45	0.0758	9.0321	45.20
1134	8.5911	17.45	0.0758	9.0342	45.20
1135	8.5927	17.45	0.0758	9.0363	45.20
1136	8.5944	17.45	0.0759	9.0385	45.20
1137	8.5960	17.45	0.0759	9.0406	45.20
1138	8.5976	17.45	0.0759	9.0427	45.20
1139	8.5992	17.45	0.0759	9.0448	45.20
1140	8.6008	17.45	0.0759	9.0470	45.20
1141	8.6024	17.45	0.0759	9.0491	45.20
1142	8.6041	17.45	0.0759	9.0512	45.20
1143	8.6057	17.45	0.0759	9.0534	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1144	8.6073	17.45	0.0759	9.0555	45.20
1145	8.6089	17.45	0.0759	9.0577	45.20
1146	8.6105	17.45	0.0759	9.0598	45.20
1147	8.6122	17.45	0.0760	9.0619	45.20
1148	8.6138	17.45	0.0760	9.0641	45.20
1149	8.6154	17.45	0.0760	9.0662	45.20
1150	8.6170	17.45	0.0760	9.0683	45.20
1151	8.6187	17.45	0.0760	9.0705	45.20
1152	8.6203	17.45	0.0760	9.0726	45.20
1153	8.6219	17.45	0.0760	9.0748	45.20
1154	8.6236	17.45	0.0760	9.0769	45.20
1155	8.6252	17.45	0.0760	9.0790	45.20
1156	8.6268	17.45	0.0760	9.0812	45.20
1157	8.6284	17.45	0.0760	9.0833	45.20
1158	8.6301	17.45	0.0760	9.0855	45.20
1159	8.6317	17.45	0.0761	9.0876	45.20
1160	8.6333	17.45	0.0761	9.0898	45.20
1161	8.6350	17.45	0.0761	9.0919	45.20
1162	8.6366	17.45	0.0761	9.0941	45.20
1163	8.6382	17.45	0.0761	9.0962	45.20
1164	8.6399	17.45	0.0761	9.0984	45.20
1165	8.6415	17.45	0.0761	9.1005	45.20
1166	8.6432	17.45	0.0761	9.1027	45.20
1167	8.6448	17.45	0.0761	9.1048	45.20
1168	8.6464	17.45	0.0761	9.1070	45.20
1169	8.6481	17.45	0.0761	9.1091	45.20
1170	8.6497	17.45	0.0762	9.1113	45.20
1171	8.6514	17.45	0.0762	9.1134	45.20
1172	8.6530	17.45	0.0762	9.1156	45.20
1173	8.6546	17.45	0.0762	9.1178	45.20
1174	8.6563	17.45	0.0762	9.1199	45.20
1175	8.6579	17.45	0.0762	9.1221	45.20
1176	8.6596	17.45	0.0762	9.1242	45.20
1177	8.6612	17.45	0.0762	9.1264	45.20
1178	8.6629	17.45	0.0762	9.1285	45.20
1179	8.6645	17.45	0.0762	9.1307	45.20
1180	8.6662	17.45	0.0762	9.1329	45.20
1181	8.6678	17.45	0.0763	9.1350	45.20
1182	8.6695	17.45	0.0763	9.1372	45.20
1183	8.6711	17.45	0.0763	9.1394	45.20
1184	8.6728	17.45	0.0763	9.1415	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1185	8.6744	17.45	0.0763	9.1437	45.20
1186	8.6761	17.45	0.0763	9.1459	45.20
1187	8.6777	17.45	0.0763	9.1480	45.20
1188	8.6794	17.45	0.0763	9.1502	45.20
1189	8.6810	17.45	0.0763	9.1524	45.20
1190	8.6827	17.45	0.0763	9.1545	45.20
1191	8.6843	17.45	0.0763	9.1567	45.20
1192	8.6860	17.45	0.0764	9.1589	45.20
1193	8.6877	17.45	0.0764	9.1610	45.20
1194	8.6893	17.45	0.0764	9.1632	45.20
1195	8.6910	17.45	0.0764	9.1654	45.20
1196	8.6926	17.45	0.0764	9.1676	45.20
1197	8.6943	17.45	0.0764	9.1697	45.20
1198	8.6960	17.45	0.0764	9.1719	45.20
1199	8.6976	17.45	0.0764	9.1741	45.20
1200	8.6993	17.45	0.0764	9.1763	45.20
1201	8.7009	17.45	0.0764	9.1784	45.20
1202	8.7026	17.45	0.0764	9.1806	45.20
1203	8.7043	17.45	0.0765	9.1828	45.20
1204	8.7059	17.45	0.0765	9.1850	45.20
1205	8.7076	17.45	0.0765	9.1871	45.20
1206	8.7093	17.45	0.0765	9.1893	45.20
1207	8.7109	17.45	0.0765	9.1915	45.20
1208	8.7126	17.45	0.0765	9.1937	45.20
1209	8.7143	17.45	0.0765	9.1959	45.20
1210	8.7159	17.45	0.0765	9.1981	45.20
1211	8.7176	17.45	0.0765	9.2002	45.20
1212	8.7193	17.45	0.0765	9.2024	45.20
1213	8.7210	17.45	0.0765	9.2046	45.20
1214	8.7226	17.45	0.0766	9.2068	45.20
1215	8.7243	17.45	0.0766	9.2090	45.20
1216	8.7260	17.45	0.0766	9.2112	45.20
1217	8.7277	17.45	0.0766	9.2134	45.20
1218	8.7293	17.45	0.0766	9.2156	45.20
1219	8.7310	17.45	0.0766	9.2177	45.20
1220	8.7327	17.45	0.0766	9.2199	45.20
1221	8.7344	17.45	0.0766	9.2221	45.20
1222	8.7360	17.45	0.0766	9.2243	45.20
1223	8.7377	17.45	0.0766	9.2265	45.20
1224	8.7394	17.45	0.0766	9.2287	45.20
1225	8.7411	17.45	0.0767	9.2309	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1226	8.7428	17.45	0.0767	9.2331	45.20
1227	8.7445	17.45	0.0767	9.2353	45.20
1228	8.7461	17.45	0.0767	9.2375	45.20
1229	8.7478	17.45	0.0767	9.2397	45.20
1230	8.7495	17.45	0.0767	9.2419	45.20
1231	8.7512	17.45	0.0767	9.2441	45.20
1232	8.7529	17.45	0.0767	9.2463	45.20
1233	8.7546	17.45	0.0767	9.2485	45.20
1234	8.7563	17.45	0.0767	9.2507	45.20
1235	8.7579	17.45	0.0768	9.2529	45.20
1236	8.7596	17.45	0.0768	9.2551	45.20
1237	8.7613	17.45	0.0768	9.2573	45.20
1238	8.7630	17.45	0.0768	9.2595	45.20
1239	8.7647	17.45	0.0768	9.2617	45.20
1240	8.7664	17.45	0.0768	9.2639	45.20
1241	8.7681	17.45	0.0768	9.2661	45.20
1242	8.7698	17.45	0.0768	9.2683	45.20
1243	8.7715	17.45	0.0768	9.2705	45.20
1244	8.7732	17.45	0.0768	9.2727	45.20
1245	8.7749	17.45	0.0768	9.2749	45.20
1246	8.7766	17.45	0.0769	9.2771	45.20
1247	8.7783	17.45	0.0769	9.2793	45.20
1248	8.7800	17.45	0.0769	9.2816	45.20
1249	8.7817	17.45	0.0769	9.2838	45.20
1250	8.7834	17.45	0.0769	9.2860	45.20
1251	8.7851	17.45	0.0769	9.2882	45.20
1252	8.7868	17.45	0.0769	9.2904	45.20
1253	8.7885	17.45	0.0769	9.2926	45.20
1254	8.7902	17.45	0.0769	9.2948	45.20
1255	8.7919	17.45	0.0769	9.2970	45.20
1256	8.7936	17.45	0.0769	9.2993	45.20
1257	8.7953	17.45	0.0770	9.3015	45.20
1258	8.7970	17.45	0.0770	9.3037	45.20
1259	8.7987	17.45	0.0770	9.3059	45.20
1260	8.8004	17.45	0.0770	9.3081	45.20
1261	8.8021	17.45	0.0770	9.3104	45.20
1262	8.8038	17.45	0.0770	9.3126	45.20
1263	8.8055	17.45	0.0770	9.3148	45.20
1264	8.8072	17.45	0.0770	9.3170	45.20
1265	8.8089	17.45	0.0770	9.3192	45.20
1266	8.8106	17.45	0.0770	9.3215	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1267	8.8123	17.45	0.0770	9.3237	45.20
1268	8.8141	17.45	0.0771	9.3259	45.20
1269	8.8158	17.45	0.0771	9.3281	45.20
1270	8.8175	17.45	0.0771	9.3304	45.20
1271	8.8192	17.45	0.0771	9.3326	45.20
1272	8.8209	17.45	0.0771	9.3348	45.20
1273	8.8226	17.45	0.0771	9.3370	45.20
1274	8.8243	17.45	0.0771	9.3393	45.20
1275	8.8261	17.45	0.0771	9.3415	45.20
1276	8.8278	17.45	0.0771	9.3437	45.20
1277	8.8295	17.45	0.0771	9.3460	45.20
1278	8.8312	17.45	0.0772	9.3482	45.20
1279	8.8329	17.45	0.0772	9.3504	45.20
1280	8.8347	17.45	0.0772	9.3526	45.20
1281	8.8364	17.45	0.0772	9.3549	45.20
1282	8.8381	17.45	0.0772	9.3571	45.20
1283	8.8398	17.45	0.0772	9.3594	45.20
1284	8.8415	17.45	0.0772	9.3616	45.20
1285	8.8433	17.45	0.0772	9.3638	45.20
1286	8.8450	17.45	0.0772	9.3661	45.20
1287	8.8467	17.45	0.0772	9.3683	45.20
1288	8.8484	17.45	0.0772	9.3705	45.20
1289	8.8502	17.45	0.0773	9.3728	45.20
1290	8.8519	17.45	0.0773	9.3750	45.20
1291	8.8536	17.45	0.0773	9.3773	45.20
1292	8.8554	17.45	0.0773	9.3795	45.20
1293	8.8571	17.45	0.0773	9.3817	45.20
1294	8.8588	17.45	0.0773	9.3840	45.20
1295	8.8605	17.45	0.0773	9.3862	45.20
1296	8.8623	17.45	0.0773	9.3885	45.20
1297	8.8640	17.45	0.0773	9.3907	45.20
1298	8.8657	17.45	0.0773	9.3930	45.20
1299	8.8675	17.45	0.0774	9.3952	45.20
1300	8.8692	17.45	0.0774	9.3974	45.20
1301	8.8709	17.45	0.0774	9.3997	45.20
1302	8.8727	17.45	0.0774	9.4019	45.20
1303	8.8744	17.45	0.0774	9.4042	45.20
1304	8.8761	17.45	0.0774	9.4064	45.20
1305	8.8779	17.45	0.0774	9.4087	45.20
1306	8.8796	17.45	0.0774	9.4109	45.20
1307	8.8814	17.45	0.0774	9.4132	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1308	8.8831	17.45	0.0774	9.4154	45.20
1309	8.8848	17.45	0.0774	9.4177	45.20
1310	8.8866	17.45	0.0775	9.4199	45.20
1311	8.8883	17.45	0.0775	9.4222	45.20
1312	8.8901	17.45	0.0775	9.4244	45.20
1313	8.8918	17.45	0.0775	9.4267	45.20
1314	8.8936	17.45	0.0775	9.4290	45.20
1315	8.8953	17.45	0.0775	9.4312	45.20
1316	8.8970	17.45	0.0775	9.4335	45.20
1317	8.8988	17.45	0.0775	9.4357	45.20
1318	8.9005	17.45	0.0775	9.4380	45.20
1319	8.9023	17.45	0.0775	9.4402	45.20
1320	8.9040	17.45	0.0776	9.4425	45.20
1321	8.9058	17.45	0.0776	9.4448	45.20
1322	8.9075	17.45	0.0776	9.4470	45.20
1323	8.9093	17.45	0.0776	9.4493	45.20
1324	8.9110	17.45	0.0776	9.4516	45.20
1325	8.9128	17.45	0.0776	9.4538	45.20
1326	8.9145	17.45	0.0776	9.4561	45.20
1327	8.9163	17.45	0.0776	9.4583	45.20
1328	8.9180	17.45	0.0776	9.4606	45.20
1329	8.9198	17.45	0.0776	9.4629	45.20
1330	8.9215	17.45	0.0776	9.4651	45.20
1331	8.9233	17.45	0.0777	9.4674	45.20
1332	8.9250	17.45	0.0777	9.4697	45.20
1333	8.9268	17.45	0.0777	9.4719	45.20
1334	8.9286	17.45	0.0777	9.4742	45.20
1335	8.9303	17.45	0.0777	9.4765	45.20
1336	8.9321	17.45	0.0777	9.4788	45.20
1337	8.9338	17.45	0.0777	9.4810	45.20
1338	8.9356	17.45	0.0777	9.4833	45.20
1339	8.9374	17.45	0.0777	9.4856	45.20
1340	8.9391	17.45	0.0777	9.4878	45.20
1341	8.9409	17.45	0.0778	9.4901	45.20
1342	8.9426	17.45	0.0778	9.4924	45.20
1343	8.9444	17.45	0.0778	9.4947	45.20
1344	8.9462	17.45	0.0778	9.4969	45.20
1345	8.9479	17.45	0.0778	9.4992	45.20
1346	8.9497	17.45	0.0778	9.5015	45.20
1347	8.9515	17.45	0.0778	9.5038	45.20
1348	8.9532	17.45	0.0778	9.5061	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1349	8.9550	17.45	0.0778	9.5083	45.20
1350	8.9568	17.45	0.0778	9.5106	45.20
1351	8.9585	17.45	0.0778	9.5129	45.20
1352	8.9603	17.45	0.0779	9.5152	45.20
1353	8.9621	17.45	0.0779	9.5175	45.20
1354	8.9638	17.45	0.0779	9.5197	45.20
1355	8.9656	17.45	0.0779	9.5220	45.20
1356	8.9674	17.45	0.0779	9.5243	45.20
1357	8.9692	17.45	0.0779	9.5266	45.20
1358	8.9709	17.45	0.0779	9.5289	45.20
1359	8.9727	17.45	0.0779	9.5312	45.20
1360	8.9745	17.45	0.0779	9.5335	45.20
1361	8.9762	17.45	0.0779	9.5357	45.20
1362	8.9780	17.45	0.0780	9.5380	45.20
1363	8.9798	17.45	0.0780	9.5403	45.20
1364	8.9816	17.45	0.0780	9.5426	45.20
1365	8.9834	17.45	0.0780	9.5449	45.20
1366	8.9851	17.45	0.0780	9.5472	45.20
1367	8.9869	17.45	0.0780	9.5495	45.20
1368	8.9887	17.45	0.0780	9.5518	45.20
1369	8.9905	17.45	0.0780	9.5541	45.20
1370	8.9923	17.45	0.0780	9.5564	45.20
1371	8.9940	17.45	0.0780	9.5587	45.20
1372	8.9958	17.45	0.0781	9.5610	45.20
1373	8.9976	17.45	0.0781	9.5633	45.20
1374	8.9994	17.45	0.0781	9.5655	45.20
1375	9.0012	17.45	0.0781	9.5678	45.20
1376	9.0029	17.45	0.0781	9.5701	45.20
1377	9.0047	17.45	0.0781	9.5724	45.20
1378	9.0065	17.45	0.0781	9.5747	45.20
1379	9.0083	17.45	0.0781	9.5770	45.20
1380	9.0101	17.45	0.0781	9.5793	45.20
1381	9.0119	17.45	0.0781	9.5816	45.20
1382	9.0137	17.45	0.0781	9.5839	45.20
1383	9.0155	17.45	0.0782	9.5862	45.20
1384	9.0172	17.45	0.0782	9.5886	45.20
1385	9.0190	17.45	0.0782	9.5909	45.20
1386	9.0208	17.45	0.0782	9.5932	45.20
1387	9.0226	17.45	0.0782	9.5955	45.20
1388	9.0244	17.45	0.0782	9.5978	45.20
1389	9.0262	17.45	0.0782	9.6001	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1390	9.0280	17.45	0.0782	9.6024	45.20
1391	9.0298	17.45	0.0782	9.6047	45.20
1392	9.0316	17.45	0.0782	9.6070	45.20
1393	9.0334	17.45	0.0783	9.6093	45.20
1394	9.0352	17.45	0.0783	9.6116	45.20
1395	9.0370	17.45	0.0783	9.6139	45.20
1396	9.0388	17.45	0.0783	9.6162	45.20
1397	9.0406	17.45	0.0783	9.6186	45.20
1398	9.0424	17.45	0.0783	9.6209	45.20
1399	9.0442	17.45	0.0783	9.6232	45.20
1400	9.0460	17.45	0.0783	9.6255	45.20
1401	9.0478	17.45	0.0783	9.6278	45.20
1402	9.0496	17.45	0.0783	9.6301	45.20
1403	9.0514	17.45	0.0784	9.6324	45.20
1404	9.0532	17.45	0.0784	9.6348	45.20
1405	9.0550	17.45	0.0784	9.6371	45.20
1406	9.0568	17.45	0.0784	9.6394	45.20
1407	9.0586	17.45	0.0784	9.6417	45.20
1408	9.0604	17.45	0.0784	9.6440	45.20
1409	9.0622	17.45	0.0784	9.6464	45.20
1410	9.0640	17.45	0.0784	9.6487	45.20
1411	9.0658	17.45	0.0784	9.6510	45.20
1412	9.0676	17.45	0.0784	9.6533	45.20
1413	9.0694	17.45	0.0785	9.6556	45.20
1414	9.0712	17.45	0.0785	9.6580	45.20
1415	9.0731	17.45	0.0785	9.6603	45.20
1416	9.0749	17.45	0.0785	9.6626	45.20
1417	9.0767	17.45	0.0785	9.6649	45.20
1418	9.0785	17.45	0.0785	9.6673	45.20
1419	9.0803	17.45	0.0785	9.6696	45.20
1420	9.0821	17.45	0.0785	9.6719	45.20
1421	9.0839	17.45	0.0785	9.6742	45.20
1422	9.0857	17.45	0.0785	9.6766	45.20
1423	9.0876	17.45	0.0786	9.6789	45.20
1424	9.0894	17.45	0.0786	9.6812	45.20
1425	9.0912	17.45	0.0786	9.6836	45.20
1426	9.0930	17.45	0.0786	9.6859	45.20
1427	9.0948	17.45	0.0786	9.6882	45.20
1428	9.0966	17.45	0.0786	9.6906	45.20
1429	9.0985	17.45	0.0786	9.6929	45.20
1430	9.1003	17.45	0.0786	9.6952	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1431	9.1021	17.45	0.0786	9.6976	45.20
1432	9.1039	17.45	0.0786	9.6999	45.20
1433	9.1057	17.45	0.0787	9.7022	45.20
1434	9.1076	17.45	0.0787	9.7046	45.20
1435	9.1094	17.45	0.0787	9.7069	45.20
1436	9.1112	17.45	0.0787	9.7093	45.20
1437	9.1130	17.45	0.0787	9.7116	45.20
1438	9.1149	17.45	0.0787	9.7139	45.20
1439	9.1167	17.45	0.0787	9.7163	45.20
1440	9.1185	17.45	0.0787	9.7186	45.20
1441	9.1203	17.45	0.0787	9.7210	45.20
1442	9.1222	17.45	0.0787	9.7233	45.20
1443	9.1240	17.45	0.0788	9.7256	45.20
1444	9.1258	17.45	0.0788	9.7280	45.20
1445	9.1276	17.45	0.0788	9.7303	45.20
1446	9.1295	17.45	0.0788	9.7327	45.20
1447	9.1313	17.45	0.0788	9.7350	45.20
1448	9.1331	17.45	0.0788	9.7374	45.20
1449	9.1350	17.45	0.0788	9.7397	45.20
1450	9.1368	17.45	0.0788	9.7421	45.20
1451	9.1386	17.45	0.0788	9.7444	45.20
1452	9.1405	17.45	0.0788	9.7468	45.20
1453	9.1423	17.45	0.0789	9.7491	45.20
1454	9.1441	17.45	0.0789	9.7515	45.20
1455	9.1460	17.45	0.0789	9.7538	45.20
1456	9.1478	17.45	0.0789	9.7562	45.20
1457	9.1496	17.45	0.0789	9.7585	45.20
1458	9.1515	17.45	0.0789	9.7609	45.20
1459	9.1533	17.45	0.0789	9.7632	45.20
1460	9.1551	17.45	0.0789	9.7656	45.20
1461	9.1570	17.45	0.0789	9.7679	45.20
1462	9.1588	17.45	0.0789	9.7703	45.20
1463	9.1607	17.45	0.0790	9.7727	45.20
1464	9.1625	17.45	0.0790	9.7750	45.20
1465	9.1643	17.45	0.0790	9.7774	45.20
1466	9.1662	17.45	0.0790	9.7797	45.20
1467	9.1680	17.45	0.0790	9.7821	45.20
1468	9.1699	17.45	0.0790	9.7845	45.20
1469	9.1717	17.45	0.0790	9.7868	45.20
1470	9.1736	17.45	0.0790	9.7892	45.20
1471	9.1754	17.45	0.0790	9.7915	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1472	9.1773	17.45	0.0790	9.7939	45.20
1473	9.1791	17.45	0.0791	9.7963	45.20
1474	9.1809	17.45	0.0791	9.7986	45.20
1475	9.1828	17.45	0.0791	9.8010	45.20
1476	9.1846	17.45	0.0791	9.8034	45.20
1477	9.1865	17.45	0.0791	9.8057	45.20
1478	9.1883	17.45	0.0791	9.8081	45.20
1479	9.1902	17.45	0.0791	9.8105	45.20
1480	9.1920	17.45	0.0791	9.8128	45.20
1481	9.1939	17.45	0.0791	9.8152	45.20
1482	9.1957	17.45	0.0791	9.8176	45.20
1483	9.1976	17.45	0.0791	9.8200	45.20
1484	9.1995	17.45	0.0791	9.8223	45.20
1485	9.2013	17.45	0.0792	9.8247	45.20
1486	9.2032	17.45	0.0792	9.8271	45.20
1487	9.2050	17.45	0.0792	9.8294	45.20
1488	9.2069	17.45	0.0792	9.8318	45.20
1489	9.2087	17.45	0.0792	9.8342	45.20
1490	9.2106	17.45	0.0792	9.8366	45.20
1491	9.2124	17.45	0.0792	9.8390	45.20
1492	9.2143	17.45	0.0792	9.8413	45.20
1493	9.2162	17.45	0.0792	9.8437	45.20
1494	9.2180	17.45	0.0792	9.8461	45.20
1495	9.2199	17.45	0.0792	9.8485	45.20
1496	9.2217	17.45	0.0792	9.8509	45.20
1497	9.2236	17.45	0.0792	9.8532	45.20
1498	9.2255	17.45	0.0793	9.8556	45.20
1499	9.2273	17.45	0.0793	9.8580	45.20
1500	9.2292	17.45	0.0793	9.8604	45.20
1501	9.2311	17.45	0.0793	9.8628	45.20
1502	9.2329	17.45	0.0793	9.8652	45.20
1503	9.2348	17.45	0.0793	9.8675	45.20
1504	9.2366	17.45	0.0793	9.8699	45.20
1505	9.2385	17.45	0.0793	9.8723	45.20
1506	9.2404	17.45	0.0793	9.8747	45.20
1507	9.2422	17.45	0.0793	9.8771	45.20
1508	9.2441	17.45	0.0793	9.8795	45.20
1509	9.2460	17.45	0.0793	9.8819	45.20
1510	9.2479	17.45	0.0794	9.8843	45.20
1511	9.2497	17.45	0.0794	9.8867	45.20
1512	9.2516	17.45	0.0794	9.8891	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1513	9.2535	17.45	0.0794	9.8915	45.20
1514	9.2553	17.45	0.0794	9.8938	45.20
1515	9.2572	17.45	0.0794	9.8962	45.20
1516	9.2591	17.45	0.0794	9.8986	45.20
1517	9.2610	17.45	0.0794	9.9010	45.20
1518	9.2628	17.45	0.0794	9.9034	45.20
1519	9.2647	17.45	0.0794	9.9058	45.20
1520	9.2666	17.45	0.0794	9.9082	45.20
1521	9.2685	17.45	0.0794	9.9106	45.20
1522	9.2703	17.45	0.0795	9.9130	45.20
1523	9.2722	17.45	0.0795	9.9154	45.20
1524	9.2741	17.45	0.0795	9.9178	45.20
1525	9.2760	17.45	0.0795	9.9202	45.20
1526	9.2778	17.45	0.0795	9.9227	45.20
1527	9.2797	17.45	0.0795	9.9251	45.20
1528	9.2816	17.45	0.0795	9.9275	45.20
1529	9.2835	17.45	0.0795	9.9299	45.20
1530	9.2854	17.45	0.0795	9.9323	45.20
1531	9.2873	17.45	0.0795	9.9347	45.20
1532	9.2891	17.45	0.0795	9.9371	45.20
1533	9.2910	17.45	0.0795	9.9395	45.20
1534	9.2929	17.45	0.0796	9.9419	45.20
1535	9.2948	17.45	0.0796	9.9443	45.20
1536	9.2967	17.45	0.0796	9.9467	45.20
1537	9.2986	17.45	0.0796	9.9491	45.20
1538	9.3004	17.45	0.0796	9.9516	45.20
1539	9.3023	17.45	0.0796	9.9540	45.20
1540	9.3042	17.45	0.0796	9.9564	45.20
1541	9.3061	17.45	0.0796	9.9588	45.20
1542	9.3080	17.45	0.0796	9.9612	45.20
1543	9.3099	17.45	0.0796	9.9636	45.20
1544	9.3118	17.45	0.0796	9.9661	45.20
1545	9.3137	17.45	0.0796	9.9685	45.20
1546	9.3156	17.45	0.0797	9.9709	45.20
1547	9.3175	17.45	0.0797	9.9733	45.20
1548	9.3193	17.45	0.0797	9.9757	45.20
1549	9.3212	17.45	0.0797	9.9782	45.20
1550	9.3231	17.45	0.0797	9.9806	45.20
1551	9.3250	17.45	0.0797	9.9830	45.20
1552	9.3269	17.45	0.0797	9.9854	45.20
1553	9.3288	17.45	0.0797	9.9879	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1554	9.3307	17.45	0.0797	9.9903	45.20
1555	9.3326	17.45	0.0797	9.9927	45.20
1556	9.3345	17.45	0.0797	9.9951	45.20
1557	9.3364	17.45	0.0797	9.9976	45.20
1558	9.3383	17.45	0.0798	10.0000	45.20
1559	9.3402	17.45	0.0798	10.0024	45.20
1560	9.3421	17.45	0.0798	10.0049	45.20
1561	9.3440	17.45	0.0798	10.0073	45.20
1562	9.3459	17.45	0.0798	10.0097	45.20
1563	9.3478	17.45	0.0798	10.0122	45.20
1564	9.3497	17.45	0.0798	10.0146	45.20
1565	9.3516	17.45	0.0798	10.0170	45.20
1566	9.3535	17.45	0.0798	10.0195	45.20
1567	9.3554	17.45	0.0798	10.0219	45.20
1568	9.3573	17.45	0.0798	10.0243	45.20
1569	9.3592	17.45	0.0798	10.0268	45.20
1570	9.3611	17.45	0.0799	10.0292	45.20
1571	9.3630	17.45	0.0799	10.0317	45.20
1572	9.3650	17.45	0.0799	10.0341	45.20
1573	9.3669	17.45	0.0799	10.0365	45.20
1574	9.3688	17.45	0.0799	10.0390	45.20
1575	9.3707	17.45	0.0799	10.0414	45.20
1576	9.3726	17.45	0.0799	10.0439	45.20
1577	9.3745	17.45	0.0799	10.0463	45.20
1578	9.3764	17.45	0.0799	10.0487	45.20
1579	9.3783	17.45	0.0799	10.0512	45.20
1580	9.3802	17.45	0.0799	10.0536	45.20
1581	9.3821	17.45	0.0799	10.0561	45.20
1582	9.3841	17.45	0.0800	10.0585	45.20
1583	9.3860	17.45	0.0800	10.0610	45.20
1584	9.3879	17.45	0.0800	10.0634	45.20
1585	9.3898	17.45	0.0800	10.0659	45.20
1586	9.3917	17.45	0.0800	10.0683	45.20
1587	9.3936	17.45	0.0800	10.0708	45.20
1588	9.3956	17.45	0.0800	10.0732	45.20
1589	9.3975	17.45	0.0800	10.0757	45.20
1590	9.3994	17.45	0.0800	10.0782	45.20
1591	9.4013	17.45	0.0800	10.0806	45.20
1592	9.4032	17.45	0.0800	10.0831	45.20
1593	9.4052	17.45	0.0800	10.0855	45.20
1594	9.4071	17.45	0.0801	10.0880	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1595	9.4090	17.45	0.0801	10.0904	45.20
1596	9.4109	17.45	0.0801	10.0929	45.20
1597	9.4128	17.45	0.0801	10.0954	45.20
1598	9.4148	17.45	0.0801	10.0978	45.20
1599	9.4167	17.45	0.0801	10.1003	45.20
1600	9.4186	17.45	0.0801	10.1027	45.20
1601	9.4205	17.45	0.0801	10.1052	45.20
1602	9.4225	17.45	0.0801	10.1077	45.20
1603	9.4244	17.45	0.0801	10.1101	45.20
1604	9.4263	17.45	0.0801	10.1126	45.20
1605	9.4282	17.45	0.0801	10.1151	45.20
1606	9.4302	17.45	0.0802	10.1175	45.20
1607	9.4321	17.45	0.0802	10.1200	45.20
1608	9.4340	17.45	0.0802	10.1225	45.20
1609	9.4360	17.45	0.0802	10.1249	45.20
1610	9.4379	17.45	0.0802	10.1274	45.20
1611	9.4398	17.45	0.0802	10.1299	45.20
1612	9.4418	17.45	0.0802	10.1324	45.20
1613	9.4437	17.45	0.0802	10.1348	45.20
1614	9.4456	17.45	0.0802	10.1373	45.20
1615	9.4476	17.45	0.0802	10.1398	45.20
1616	9.4495	17.45	0.0802	10.1423	45.20
1617	9.4514	17.45	0.0802	10.1447	45.20
1618	9.4534	17.45	0.0803	10.1472	45.20
1619	9.4553	17.45	0.0803	10.1497	45.20
1620	9.4572	17.45	0.0803	10.1522	45.20
1621	9.4592	17.45	0.0803	10.1546	45.20
1622	9.4611	17.45	0.0803	10.1571	45.20
1623	9.4630	17.45	0.0803	10.1596	45.20
1624	9.4650	17.45	0.0803	10.1621	45.20
1625	9.4669	17.45	0.0803	10.1646	45.20
1626	9.4689	17.45	0.0803	10.1671	45.20
1627	9.4708	17.45	0.0803	10.1695	45.20
1628	9.4727	17.45	0.0803	10.1720	45.20
1629	9.4747	17.45	0.0803	10.1745	45.20
1630	9.4766	17.45	0.0804	10.1770	45.20
1631	9.4786	17.45	0.0804	10.1795	45.20
1632	9.4805	17.45	0.0804	10.1820	45.20
1633	9.4825	17.45	0.0804	10.1845	45.20
1634	9.4844	17.45	0.0804	10.1870	45.20
1635	9.4864	17.45	0.0804	10.1895	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1636	9.4883	17.45	0.0804	10.1919	45.20
1637	9.4903	17.45	0.0804	10.1944	45.20
1638	9.4922	17.45	0.0804	10.1969	45.20
1639	9.4941	17.45	0.0804	10.1994	45.20
1640	9.4961	17.45	0.0804	10.2019	45.20
1641	9.4980	17.45	0.0805	10.2044	45.20
1642	9.5000	17.45	0.0805	10.2069	45.20
1643	9.5019	17.45	0.0805	10.2094	45.20
1644	9.5039	17.45	0.0805	10.2119	45.20
1645	9.5059	17.45	0.0805	10.2144	45.20
1646	9.5078	17.45	0.0805	10.2169	45.20
1647	9.5098	17.45	0.0805	10.2194	45.20
1648	9.5117	17.45	0.0805	10.2219	45.20
1649	9.5137	17.45	0.0805	10.2244	45.20
1650	9.5156	17.45	0.0805	10.2269	45.20
1651	9.5176	17.45	0.0805	10.2294	45.20
1652	9.5195	17.45	0.0805	10.2319	45.20
1653	9.5215	17.45	0.0806	10.2344	45.20
1654	9.5234	17.45	0.0806	10.2369	45.20
1655	9.5254	17.45	0.0806	10.2395	45.20
1656	9.5274	17.45	0.0806	10.2420	45.20
1657	9.5293	17.45	0.0806	10.2445	45.20
1658	9.5313	17.45	0.0806	10.2470	45.20
1659	9.5332	17.45	0.0806	10.2495	45.20
1660	9.5352	17.45	0.0806	10.2520	45.20
1661	9.5372	17.45	0.0806	10.2545	45.20
1662	9.5391	17.45	0.0806	10.2570	45.20
1663	9.5411	17.45	0.0806	10.2596	45.20
1664	9.5431	17.45	0.0806	10.2621	45.20
1665	9.5450	17.45	0.0807	10.2646	45.20
1666	9.5470	17.45	0.0807	10.2671	45.20
1667	9.5490	17.45	0.0807	10.2696	45.20
1668	9.5509	17.45	0.0807	10.2721	45.20
1669	9.5529	17.45	0.0807	10.2747	45.20
1670	9.5549	17.45	0.0807	10.2772	45.20
1671	9.5568	17.45	0.0807	10.2797	45.20
1672	9.5588	17.45	0.0807	10.2822	45.20
1673	9.5608	17.45	0.0807	10.2848	45.20
1674	9.5627	17.45	0.0807	10.2873	45.20
1675	9.5647	17.45	0.0807	10.2898	45.20
1676	9.5667	17.45	0.0807	10.2923	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1677	9.5686	17.45	0.0808	10.2949	45.20
1678	9.5706	17.45	0.0808	10.2974	45.20
1679	9.5726	17.45	0.0808	10.2999	45.20
1680	9.5746	17.45	0.0808	10.3024	45.20
1681	9.5765	17.45	0.0808	10.3050	45.20
1682	9.5785	17.45	0.0808	10.3075	45.20
1683	9.5805	17.45	0.0808	10.3100	45.20
1684	9.5825	17.45	0.0808	10.3126	45.20
1685	9.5844	17.45	0.0808	10.3151	45.20
1686	9.5864	17.45	0.0808	10.3176	45.20
1687	9.5884	17.45	0.0808	10.3202	45.20
1688	9.5904	17.45	0.0809	10.3227	45.20
1689	9.5924	17.45	0.0809	10.3252	45.20
1690	9.5943	17.45	0.0809	10.3278	45.20
1691	9.5963	17.45	0.0809	10.3303	45.20
1692	9.5983	17.45	0.0809	10.3329	45.20
1693	9.6003	17.45	0.0809	10.3354	45.20
1694	9.6023	17.45	0.0809	10.3379	45.20
1695	9.6042	17.45	0.0809	10.3405	45.20
1696	9.6062	17.45	0.0809	10.3430	45.20
1697	9.6082	17.45	0.0809	10.3456	45.20
1698	9.6102	17.45	0.0809	10.3481	45.20
1699	9.6122	17.45	0.0809	10.3507	45.20
1700	9.6142	17.45	0.0810	10.3532	45.20
1701	9.6162	17.45	0.0810	10.3558	45.20
1702	9.6181	17.45	0.0810	10.3583	45.20
1703	9.6201	17.45	0.0810	10.3609	45.20
1704	9.6221	17.45	0.0810	10.3634	45.20
1705	9.6241	17.45	0.0810	10.3660	45.20
1706	9.6261	17.45	0.0810	10.3685	45.20
1707	9.6281	17.45	0.0810	10.3711	45.20
1708	9.6301	17.45	0.0810	10.3736	45.20
1709	9.6321	17.45	0.0810	10.3762	45.20
1710	9.6341	17.45	0.0810	10.3787	45.20
1711	9.6361	17.45	0.0810	10.3813	45.20
1712	9.6380	17.45	0.0811	10.3838	45.20
1713	9.6400	17.45	0.0811	10.3864	45.20
1714	9.6420	17.45	0.0811	10.3890	45.20
1715	9.6440	17.45	0.0811	10.3915	45.20
1716	9.6460	17.45	0.0811	10.3941	45.20
1717	9.6480	17.45	0.0811	10.3967	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1718	9.6500	17.45	0.0811	10.3992	45.20
1719	9.6520	17.45	0.0811	10.4018	45.20
1720	9.6540	17.45	0.0811	10.4043	45.20
1721	9.6560	17.45	0.0811	10.4069	45.20
1722	9.6580	17.45	0.0811	10.4095	45.20
1723	9.6600	17.45	0.0812	10.4120	45.20
1724	9.6620	17.45	0.0812	10.4146	45.20
1725	9.6640	17.45	0.0812	10.4172	45.20
1726	9.6660	17.45	0.0812	10.4198	45.20
1727	9.6680	17.45	0.0812	10.4223	45.20
1728	9.6700	17.45	0.0812	10.4249	45.20
1729	9.6720	17.45	0.0812	10.4275	45.20
1730	9.6740	17.45	0.0812	10.4300	45.20
1731	9.6760	17.45	0.0812	10.4326	45.20
1732	9.6780	17.45	0.0812	10.4352	45.20
1733	9.6801	17.45	0.0812	10.4378	45.20
1734	9.6821	17.45	0.0812	10.4403	45.20
1735	9.6841	17.45	0.0813	10.4429	45.20
1736	9.6861	17.45	0.0813	10.4455	45.20
1737	9.6881	17.45	0.0813	10.4481	45.20
1738	9.6901	17.45	0.0813	10.4507	45.20
1739	9.6921	17.45	0.0813	10.4532	45.20
1740	9.6941	17.45	0.0813	10.4558	45.20
1741	9.6961	17.45	0.0813	10.4584	45.20
1742	9.6981	17.45	0.0813	10.4610	45.20
1743	9.7002	17.45	0.0813	10.4636	45.20
1744	9.7022	17.45	0.0813	10.4662	45.20
1745	9.7042	17.45	0.0813	10.4688	45.20
1746	9.7062	17.45	0.0814	10.4714	45.20
1747	9.7082	17.45	0.0814	10.4739	45.20
1748	9.7102	17.45	0.0814	10.4765	45.20
1749	9.7122	17.45	0.0814	10.4791	45.20
1750	9.7143	17.45	0.0814	10.4817	45.20
1751	9.7163	17.45	0.0814	10.4843	45.20
1752	9.7183	17.45	0.0814	10.4869	45.20
1753	9.7203	17.45	0.0814	10.4895	45.20
1754	9.7223	17.45	0.0814	10.4921	45.20
1755	9.7244	17.45	0.0814	10.4947	45.20
1756	9.7264	17.45	0.0814	10.4973	45.20
1757	9.7284	17.45	0.0814	10.4999	45.20
1758	9.7304	17.45	0.0815	10.5025	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1759	9.7324	17.45	0.0815	10.5051	45.20
1760	9.7345	17.45	0.0815	10.5077	45.20
1761	9.7365	17.45	0.0815	10.5103	45.20
1762	9.7385	17.45	0.0815	10.5129	45.20
1763	9.7405	17.45	0.0815	10.5155	45.20
1764	9.7426	17.45	0.0815	10.5181	45.20
1765	9.7446	17.45	0.0815	10.5207	45.20
1766	9.7466	17.45	0.0815	10.5233	45.20
1767	9.7486	17.45	0.0815	10.5259	45.20
1768	9.7507	17.45	0.0815	10.5285	45.20
1769	9.7527	17.45	0.0816	10.5311	45.20
1770	9.7547	17.45	0.0816	10.5338	45.20
1771	9.7568	17.45	0.0816	10.5364	45.20
1772	9.7588	17.45	0.0816	10.5390	45.20
1773	9.7608	17.45	0.0816	10.5416	45.20
1774	9.7629	17.45	0.0816	10.5442	45.20
1775	9.7649	17.45	0.0816	10.5468	45.20
1776	9.7669	17.45	0.0816	10.5494	45.20
1777	9.7690	17.45	0.0816	10.5521	45.20
1778	9.7710	17.45	0.0816	10.5547	45.20
1779	9.7730	17.45	0.0816	10.5573	45.20
1780	9.7751	17.45	0.0816	10.5599	45.20
1781	9.7771	17.45	0.0817	10.5625	45.20
1782	9.7791	17.45	0.0817	10.5652	45.20
1783	9.7812	17.45	0.0817	10.5678	45.20
1784	9.7832	17.45	0.0817	10.5704	45.20
1785	9.7853	17.45	0.0817	10.5730	45.20
1786	9.7873	17.45	0.0817	10.5757	45.20
1787	9.7893	17.45	0.0817	10.5783	45.20
1788	9.7914	17.45	0.0817	10.5809	45.20
1789	9.7934	17.45	0.0817	10.5835	45.20
1790	9.7955	17.45	0.0817	10.5862	45.20
1791	9.7975	17.45	0.0817	10.5888	45.20
1792	9.7996	17.45	0.0818	10.5914	45.20
1793	9.8016	17.45	0.0818	10.5941	45.20
1794	9.8036	17.45	0.0818	10.5967	45.20
1795	9.8057	17.45	0.0818	10.5993	45.20
1796	9.8077	17.45	0.0818	10.6020	45.20
1797	9.8098	17.45	0.0818	10.6046	45.20
1798	9.8118	17.45	0.0818	10.6073	45.20
1799	9.8139	17.45	0.0818	10.6099	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1800	9.8159	17.45	0.0818	10.6125	45.20
1801	9.8180	17.45	0.0818	10.6152	45.20
1802	9.8200	17.45	0.0818	10.6178	45.20
1803	9.8221	17.45	0.0819	10.6205	45.20
1804	9.8241	17.45	0.0819	10.6231	45.20
1805	9.8262	17.45	0.0819	10.6257	45.20
1806	9.8282	17.45	0.0819	10.6284	45.20
1807	9.8303	17.45	0.0819	10.6310	45.20
1808	9.8323	17.45	0.0819	10.6337	45.20
1809	9.8344	17.45	0.0819	10.6363	45.20
1810	9.8364	17.45	0.0819	10.6390	45.20
1811	9.8385	17.45	0.0819	10.6416	45.20
1812	9.8406	17.45	0.0819	10.6443	45.20
1813	9.8426	17.45	0.0819	10.6469	45.20
1814	9.8447	17.45	0.0819	10.6496	45.20
1815	9.8467	17.45	0.0820	10.6522	45.20
1816	9.8488	17.45	0.0820	10.6549	45.20
1817	9.8508	17.45	0.0820	10.6575	45.20
1818	9.8529	17.45	0.0820	10.6602	45.20
1819	9.8550	17.45	0.0820	10.6628	45.20
1820	9.8570	17.45	0.0820	10.6655	45.20
1821	9.8591	17.45	0.0820	10.6681	45.20
1822	9.8611	17.45	0.0820	10.6708	45.20
1823	9.8632	17.45	0.0820	10.6735	45.20
1824	9.8653	17.45	0.0820	10.6761	45.20
1825	9.8673	17.45	0.0820	10.6788	45.20
1826	9.8694	17.45	0.0821	10.6814	45.20
1827	9.8715	17.45	0.0821	10.6841	45.20
1828	9.8735	17.45	0.0821	10.6867	45.20
1829	9.8756	17.45	0.0821	10.6894	45.20
1830	9.8777	17.45	0.0821	10.6921	45.20
1831	9.8797	17.45	0.0821	10.6947	45.20
1832	9.8818	17.45	0.0821	10.6974	45.20
1833	9.8839	17.45	0.0821	10.7001	45.20
1834	9.8859	17.45	0.0821	10.7027	45.20
1835	9.8880	17.45	0.0821	10.7054	45.20
1836	9.8901	17.45	0.0821	10.7081	45.20
1837	9.8921	17.45	0.0822	10.7107	45.20
1838	9.8942	17.45	0.0822	10.7134	45.20
1839	9.8963	17.45	0.0822	10.7161	45.20
1840	9.8983	17.45	0.0822	10.7187	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1841	9.9004	17.45	0.0822	10.7214	45.20
1842	9.9025	17.45	0.0822	10.7241	45.20
1843	9.9046	17.45	0.0822	10.7267	45.20
1844	9.9066	17.45	0.0822	10.7294	45.20
1845	9.9087	17.45	0.0822	10.7321	45.20
1846	9.9108	17.45	0.0822	10.7348	45.20
1847	9.9129	17.45	0.0822	10.7374	45.20
1848	9.9149	17.45	0.0822	10.7401	45.20
1849	9.9170	17.45	0.0823	10.7428	45.20
1850	9.9191	17.45	0.0823	10.7455	45.20
1851	9.9212	17.45	0.0823	10.7481	45.20
1852	9.9232	17.45	0.0823	10.7508	45.20
1853	9.9253	17.45	0.0823	10.7535	45.20
1854	9.9274	17.45	0.0823	10.7562	45.20
1855	9.9295	17.45	0.0823	10.7588	45.20
1856	9.9315	17.45	0.0823	10.7615	45.20
1857	9.9336	17.45	0.0823	10.7642	45.20
1858	9.9357	17.45	0.0823	10.7669	45.20
1859	9.9378	17.45	0.0823	10.7696	45.20
1860	9.9399	17.45	0.0824	10.7723	45.20
1861	9.9420	17.45	0.0824	10.7749	45.20
1862	9.9440	17.45	0.0824	10.7776	45.20
1863	9.9461	17.45	0.0824	10.7803	45.20
1864	9.9482	17.45	0.0824	10.7830	45.20
1865	9.9503	17.45	0.0824	10.7857	45.20
1866	9.9524	17.45	0.0824	10.7884	45.20
1867	9.9545	17.45	0.0824	10.7911	45.20
1868	9.9565	17.45	0.0824	10.7937	45.20
1869	9.9586	17.45	0.0824	10.7964	45.20
1870	9.9607	17.45	0.0824	10.7991	45.20
1871	9.9628	17.45	0.0825	10.8018	45.20
1872	9.9649	17.45	0.0825	10.8045	45.20
1873	9.9670	17.45	0.0825	10.8072	45.20
1874	9.9691	17.45	0.0825	10.8099	45.20
1875	9.9711	17.45	0.0825	10.8126	45.20
1876	9.9732	17.45	0.0825	10.8153	45.20
1877	9.9753	17.45	0.0825	10.8180	45.20
1878	9.9774	17.45	0.0825	10.8207	45.20
1879	9.9795	17.45	0.0825	10.8234	45.20
1880	9.9816	17.45	0.0825	10.8261	45.20
1881	9.9837	17.45	0.0825	10.8288	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1882	9.9858	17.45	0.0825	10.8315	45.20
1883	9.9879	17.45	0.0826	10.8342	45.20
1884	9.9900	17.45	0.0826	10.8369	45.20
1885	9.9921	17.45	0.0826	10.8396	45.20
1886	9.9942	17.45	0.0826	10.8423	45.20
1887	9.9963	17.45	0.0826	10.8450	45.20
1888	9.9983	17.45	0.0826	10.8477	45.20
1889	10.0004	17.45	0.0826	10.8504	45.20
1890	10.0025	17.45	0.0826	10.8531	45.20
1891	10.0046	17.45	0.0826	10.8558	45.20
1892	10.0067	17.45	0.0826	10.8585	45.20
1893	10.0088	17.45	0.0826	10.8612	45.20
1894	10.0109	17.45	0.0827	10.8639	45.20
1895	10.0130	17.45	0.0827	10.8666	45.20
1896	10.0151	17.45	0.0827	10.8693	45.20
1897	10.0172	17.45	0.0827	10.8720	45.20
1898	10.0193	17.45	0.0827	10.8747	45.20
1899	10.0214	17.45	0.0827	10.8774	45.20
1900	10.0235	17.45	0.0827	10.8801	45.20
1901	10.0256	17.45	0.0827	10.8829	45.20
1902	10.0277	17.45	0.0827	10.8856	45.20
1903	10.0298	17.45	0.0827	10.8883	45.20
1904	10.0319	17.45	0.0827	10.8910	45.20
1905	10.0340	17.45	0.0828	10.8937	45.20
1906	10.0362	17.45	0.0828	10.8964	45.20
1907	10.0383	17.45	0.0828	10.8991	45.20
1908	10.0404	17.45	0.0828	10.9019	45.20
1909	10.0425	17.45	0.0828	10.9046	45.20
1910	10.0446	17.45	0.0828	10.9073	45.20
1911	10.0467	17.45	0.0828	10.9100	45.20
1912	10.0488	17.45	0.0828	10.9127	45.20
1913	10.0509	17.45	0.0828	10.9155	45.20
1914	10.0530	17.45	0.0828	10.9182	45.20
1915	10.0551	17.45	0.0828	10.9209	45.20
1916	10.0572	17.45	0.0828	10.9236	45.20
1917	10.0593	17.45	0.0829	10.9263	45.20
1918	10.0614	17.45	0.0829	10.9291	45.20
1919	10.0636	17.45	0.0829	10.9318	45.20
1920	10.0657	17.45	0.0829	10.9345	45.20
1921	10.0678	17.45	0.0829	10.9372	45.20
1922	10.0699	17.45	0.0829	10.9400	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1923	10.0720	17.45	0.0829	10.9427	45.20
1924	10.0741	17.45	0.0829	10.9454	45.20
1925	10.0762	17.45	0.0829	10.9482	45.20
1926	10.0784	17.45	0.0829	10.9509	45.20
1927	10.0805	17.45	0.0829	10.9536	45.20
1928	10.0826	17.45	0.0830	10.9563	45.20
1929	10.0847	17.45	0.0830	10.9591	45.20
1930	10.0868	17.45	0.0830	10.9618	45.20
1931	10.0889	17.45	0.0830	10.9645	45.20
1932	10.0911	17.45	0.0830	10.9673	45.20
1933	10.0932	17.45	0.0830	10.9700	45.20
1934	10.0953	17.45	0.0830	10.9728	45.20
1935	10.0974	17.45	0.0830	10.9755	45.20
1936	10.0995	17.45	0.0830	10.9782	45.20
1937	10.1016	17.45	0.0830	10.9810	45.20
1938	10.1038	17.45	0.0830	10.9837	45.20
1939	10.1059	17.45	0.0831	10.9864	45.20
1940	10.1080	17.45	0.0831	10.9892	45.20
1941	10.1101	17.45	0.0831	10.9919	45.20
1942	10.1123	17.45	0.0831	10.9947	45.20
1943	10.1144	17.45	0.0831	10.9974	45.20
1944	10.1165	17.45	0.0831	11.0001	45.20
1945	10.1186	17.45	0.0831	11.0029	45.20
1946	10.1208	17.45	0.0831	11.0056	45.20
1947	10.1229	17.45	0.0831	11.0084	45.20
1948	10.1250	17.45	0.0831	11.0111	45.20
1949	10.1271	17.45	0.0831	11.0139	45.20
1950	10.1293	17.45	0.0831	11.0166	45.20
1951	10.1314	17.45	0.0832	11.0194	45.20
1952	10.1335	17.45	0.0832	11.0221	45.20
1953	10.1356	17.45	0.0832	11.0249	45.20
1954	10.1378	17.45	0.0832	11.0276	45.20
1955	10.1399	17.45	0.0832	11.0304	45.20
1956	10.1420	17.45	0.0832	11.0331	45.20
1957	10.1442	17.45	0.0832	11.0359	45.20
1958	10.1463	17.45	0.0832	11.0386	45.20
1959	10.1484	17.45	0.0832	11.0414	45.20
1960	10.1506	17.45	0.0832	11.0441	45.20
1961	10.1527	17.45	0.0832	11.0469	45.20
1962	10.1548	17.45	0.0833	11.0496	45.20
1963	10.1570	17.45	0.0833	11.0524	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
1964	10.1591	17.45	0.0833	11.0551	45.20
1965	10.1612	17.45	0.0833	11.0579	45.20
1966	10.1634	17.45	0.0833	11.0607	45.20
1967	10.1655	17.45	0.0833	11.0634	45.20
1968	10.1676	17.45	0.0833	11.0662	45.20
1969	10.1698	17.45	0.0833	11.0689	45.20
1970	10.1719	17.45	0.0833	11.0717	45.20
1971	10.1740	17.45	0.0833	11.0745	45.20
1972	10.1762	17.45	0.0833	11.0772	45.20
1973	10.1783	17.45	0.0834	11.0800	45.20
1974	10.1804	17.45	0.0834	11.0827	45.20
1975	10.1826	17.45	0.0834	11.0855	45.20
1976	10.1847	17.45	0.0834	11.0883	45.20
1977	10.1869	17.45	0.0834	11.0910	45.20
1978	10.1890	17.45	0.0834	11.0938	45.20
1979	10.1911	17.45	0.0834	11.0966	45.20
1980	10.1933	17.45	0.0834	11.0993	45.20
1981	10.1954	17.45	0.0834	11.1021	45.20
1982	10.1976	17.45	0.0834	11.1049	45.20
1983	10.1997	17.45	0.0834	11.1076	45.20
1984	10.2019	17.45	0.0835	11.1104	45.20
1985	10.2040	17.45	0.0835	11.1132	45.20
1986	10.2061	17.45	0.0835	11.1159	45.20
1987	10.2083	17.45	0.0835	11.1187	45.20
1988	10.2104	17.45	0.0835	11.1215	45.20
1989	10.2126	17.45	0.0835	11.1243	45.20
1990	10.2147	17.45	0.0835	11.1270	45.20
1991	10.2169	17.45	0.0835	11.1298	45.20
1992	10.2190	17.45	0.0835	11.1326	45.20
1993	10.2212	17.45	0.0835	11.1354	45.20
1994	10.2233	17.45	0.0835	11.1381	45.20
1995	10.2255	17.45	0.0835	11.1409	45.20
1996	10.2276	17.45	0.0836	11.1437	45.20
1997	10.2298	17.45	0.0836	11.1465	45.20
1998	10.2319	17.45	0.0836	11.1492	45.20
1999	10.2341	17.45	0.0836	11.1520	45.20
2000	10.2362	17.45	0.0836	11.1548	45.20
2001	10.2384	17.45	0.0836	11.1576	45.20
2002	10.2405	17.45	0.0836	11.1604	45.20
2003	10.2427	17.45	0.0836	11.1631	45.20
2004	10.2448	17.45	0.0836	11.1659	45.20

Attachment 7

	X	Y	Z	AA	AB
20					
21	K Upper Plenum	Mass Lower Plenum	Cp Lower Plenum	K Lower Plenum	Mass Channel Box
22	BTU/hr-ft-F	lbm	BTU/lb-F	BTU/hr-ft-F	lbm
2005	10.2470	17.45	0.0836	11.1687	45.20
2006	10.2491	17.45	0.0836	11.1715	45.20
2007	10.2513	17.45	0.0837	11.1743	45.20
2008	10.2534	17.45	0.0837	11.1771	45.20
2009	10.2556	17.45	0.0837	11.1799	45.20
2010	10.2578	17.45	0.0837	11.1826	45.20
2011	10.2599	17.45	0.0837	11.1854	45.20
2012	10.2621	17.45	0.0837	11.1882	45.20
2013	10.2642	17.45	0.0837	11.1910	45.20
2014	10.2664	17.45	0.0837	11.1938	45.20
2015	10.2685	17.45	0.0837	11.1966	45.20
2016	10.2707	17.45	0.0837	11.1994	45.20
2017	10.2729	17.45	0.0837	11.2022	45.20
2018	10.2750	17.45	0.0838	11.2050	45.20
2019	10.2772	17.45	0.0838	11.2078	45.20
2020	10.2793	17.45	0.0838	11.2106	45.20
2021	10.2815	17.45	0.0838	11.2133	45.20
2022	10.2837	17.45	0.0838	11.2161	45.20
2023	10.2858	17.45	0.0838	11.2189	45.20
2024	10.2880	17.45	0.0838	11.2217	45.20

Attachment 7

	AC	AD	AE	AF	AG	AH	
1							
2							
3							
4							
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6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19	x=AV24		$x=(326-(0.242*AJ24)+(3.71*AJ24^{0.719}))*$ 0.000238845896627	$x=(C24-32)*$ 5/9+273.15	$x=(D24-32)*$ 5/9+273.15	$x=(E24-32)*$ 5/9+273.15	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
23	0.0682	41.1100		0.1156	322.038889	322.038889	322.038889
24	0.0682	41.1100		0.1156	322.691439	322.038889	322.038889
25	0.0682	41.1100		0.1156	323.342265	322.039276	322.039512
26	0.0682	41.1100		0.1156	323.99139	322.04005	322.040755
27	0.0682	41.1100		0.1156	324.638839	322.041208	322.042616
28	0.0682	41.1100		0.1156	325.284634	322.04275	322.045093
29	0.0682	41.1100		0.1156	325.928798	322.044675	322.048185
30	0.0682	41.1100		0.1156	326.571351	322.046981	322.051888
31	0.0682	41.1100		0.1156	327.212314	322.049667	322.0562
32	0.0682	41.1100		0.1156	327.851707	322.052732	322.06112
33	0.0682	41.1100		0.1156	328.489549	322.056175	322.066646
34	0.0683	41.1100		0.1156	329.125858	322.059994	322.072775
35	0.0683	41.1100		0.1156	329.760653	322.064189	322.079505
36	0.0683	41.1100		0.1156	330.393951	322.068758	322.086835

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K
37	0.0683	41.1100	0.1156	331.025768	322.073701	322.094762
38	0.0683	41.1100	0.1156	331.65612	322.079015	322.103284
39	0.0683	41.1100	0.1156	332.285024	322.084701	322.1124
40	0.0683	41.1100	0.1156	332.912495	322.090757	322.122107
41	0.0683	41.1100	0.1156	333.538547	322.097182	322.132404
42	0.0683	41.1100	0.1156	334.163195	322.103974	322.143289
43	0.0683	41.1100	0.1156	334.786453	322.111134	322.154759
44	0.0683	41.1100	0.1156	335.408334	322.118659	322.166813
45	0.0683	41.1100	0.1156	336.028852	322.126549	322.179449
46	0.0683	41.1100	0.1156	336.648018	322.134803	322.192665
47	0.0684	41.1100	0.1156	337.265847	322.143419	322.206459
48	0.0684	41.1100	0.1156	337.882349	322.152397	322.22083
49	0.0684	41.1100	0.1156	338.497538	322.161736	322.235776
50	0.0684	41.1100	0.1156	339.111423	322.171435	322.251294
51	0.0684	41.1100	0.1156	339.724017	322.181492	322.267384
52	0.0684	41.1100	0.1156	340.33533	322.191907	322.284043
53	0.0684	41.1100	0.1156	340.945373	322.202679	322.301269
54	0.0684	41.1100	0.1156	341.554156	322.213807	322.319062
55	0.0685	41.1100	0.1156	342.16169	322.225289	322.337418
56	0.0685	41.1100	0.1156	342.767984	322.237126	322.356337
57	0.0685	41.1100	0.1156	343.373048	322.249315	322.375816
58	0.0685	41.1100	0.1156	343.976892	322.261857	322.395855
59	0.0685	41.1100	0.1156	344.579525	322.27475	322.41645
60	0.0685	41.1100	0.1156	345.180956	322.287992	322.437602
61	0.0685	41.1100	0.1156	345.781194	322.301585	322.459307
62	0.0685	41.1100	0.1156	346.380247	322.315525	322.481565
63	0.0686	41.1100	0.1156	346.978124	322.329813	322.504373
64	0.0686	41.1100	0.1156	347.574833	322.344448	322.52773
65	0.0686	41.1100	0.1157	348.170382	322.359428	322.551635
66	0.0686	41.1100	0.1157	348.764781	322.374753	322.576085
67	0.0686	41.1100	0.1157	349.358035	322.390422	322.60108
68	0.0686	41.1100	0.1157	349.950153	322.406434	322.626617
69	0.0686	41.1100	0.1157	350.541143	322.422788	322.652695
70	0.0687	41.1100	0.1157	351.131012	322.439483	322.679312
71	0.0687	41.1100	0.1157	351.719767	322.456519	322.706467
72	0.0687	41.1100	0.1157	352.307416	322.473894	322.734159
73	0.0687	41.1100	0.1157	352.893965	322.491608	322.762385
74	0.0687	41.1100	0.1157	353.479421	322.50966	322.791145
75	0.0687	41.1100	0.1157	354.063792	322.528049	322.820436
76	0.0688	41.1100	0.1157	354.647084	322.546774	322.850257
77	0.0688	41.1100	0.1157	355.229303	322.565835	322.880607

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
78	0.0688	41.1100		0.1157 355.810456	322.58523	322.911484
79	0.0688	41.1100		0.1157 356.390549	322.604959	322.942886
80	0.0688	41.1100		0.1158 356.969589	322.62502	322.974812
81	0.0688	41.1100		0.1158 357.547582	322.645414	323.007261
82	0.0689	41.1100		0.1158 358.124534	322.666139	323.040232
83	0.0689	41.1100		0.1158 358.700451	322.687194	323.073721
84	0.0689	41.1100		0.1158 359.275339	322.708579	323.107729
85	0.0689	41.1100		0.1158 359.849204	322.730292	323.142254
86	0.0689	41.1100		0.1158 360.422051	322.752334	323.177294
87	0.0690	41.1100		0.1158 360.993887	322.774703	323.212847
88	0.0690	41.1100		0.1158 361.564717	322.797399	323.248913
89	0.0690	41.1100		0.1158 362.134547	322.82042	323.28549
90	0.0690	41.1100		0.1158 362.703382	322.843766	323.322577
91	0.0690	41.1100		0.1159 363.271227	322.867436	323.360171
92	0.0690	41.1100		0.1159 363.838088	322.891429	323.398273
93	0.0691	41.1100		0.1159 364.403971	322.915746	323.436879
94	0.0691	41.1100		0.1159 364.96888	322.940383	323.475989
95	0.0691	41.1100		0.1159 365.532821	322.965342	323.515602
96	0.0691	41.1100		0.1159 366.095799	322.990622	323.555716
97	0.0691	41.1100		0.1159 366.657819	323.01622	323.59633
98	0.0692	41.1100		0.1159 367.218886	323.042138	323.637442
99	0.0692	41.1100		0.1160 367.779005	323.068373	323.679051
100	0.0692	41.1100		0.1160 368.338182	323.094926	323.721156
101	0.0692	41.1100		0.1160 368.89642	323.121796	323.763755
102	0.0692	41.1100		0.1160 369.453725	323.148981	323.806847
103	0.0693	41.1100		0.1160 370.010102	323.176481	323.85043
104	0.0693	41.1100		0.1160 370.565556	323.204296	323.894504
105	0.0693	41.1100		0.1160 371.12009	323.232424	323.939067
106	0.0693	41.1100		0.1160 371.673711	323.260866	323.984117
107	0.0693	41.1100		0.1161 372.226422	323.289619	324.029654
108	0.0694	41.1100		0.1161 372.778229	323.318684	324.075675
109	0.0694	41.1100		0.1161 373.329135	323.348059	324.12218
110	0.0694	41.1100		0.1161 373.879146	323.377745	324.169168
111	0.0694	41.1100		0.1161 374.428265	323.40774	324.216637
112	0.0694	41.1100		0.1161 374.976498	323.438044	324.264585
113	0.0695	41.1100		0.1161 375.523849	323.468655	324.313012
114	0.0695	41.1100		0.1162 376.070323	323.499574	324.361916
115	0.0695	41.1100		0.1162 376.615923	323.5308	324.411296
116	0.0695	41.1100		0.1162 377.160654	323.562331	324.461151
117	0.0695	41.1100		0.1162 377.70452	323.594167	324.51148
118	0.0696	41.1100		0.1162 378.247527	323.626308	324.56228

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K
119	0.0696	41.1100		0.1162 378.789677	323.658753	324.613552
120	0.0696	41.1100		0.1163 379.330976	323.691501	324.665293
121	0.0696	41.1100		0.1163 379.871428	323.724551	324.717502
122	0.0696	41.1100		0.1163 380.411036	323.757903	324.770179
123	0.0697	41.1100		0.1163 380.949806	323.791556	324.823322
124	0.0697	41.1100		0.1163 381.487741	323.82551	324.87693
125	0.0697	41.1100		0.1163 382.024845	323.859763	324.931001
126	0.0697	41.1100		0.1164 382.561122	323.894315	324.985534
127	0.0698	41.1100		0.1164 383.096578	323.929166	325.040529
128	0.0698	41.1100		0.1164 383.631215	323.964315	325.095984
129	0.0698	41.1100		0.1164 384.165038	323.999761	325.151897
130	0.0698	41.1100		0.1164 384.698052	324.035503	325.208268
131	0.0698	41.1100		0.1165 385.230259	324.071541	325.265095
132	0.0699	41.1100		0.1165 385.761664	324.107874	325.322377
133	0.0699	41.1100		0.1165 386.292271	324.144502	325.380114
134	0.0699	41.1100		0.1165 386.822085	324.181424	325.438303
135	0.0699	41.1100		0.1165 387.351108	324.218639	325.496944
136	0.0699	41.1100		0.1166 387.879346	324.256147	325.556036
137	0.0700	41.1100		0.1166 388.406802	324.293947	325.615577
138	0.0700	41.1100		0.1166 388.933479	324.332038	325.675566
139	0.0700	41.1100		0.1166 389.459383	324.37042	325.736002
140	0.0700	41.1100		0.1166 389.984516	324.409092	325.796884
141	0.0701	41.1100		0.1167 390.508883	324.448054	325.858211
142	0.0701	41.1100		0.1167 391.032488	324.487304	325.919981
143	0.0701	41.1100		0.1167 391.555335	324.526843	325.982194
144	0.0701	41.1100		0.1167 392.077427	324.566669	326.044849
145	0.0702	41.1100		0.1167 392.598768	324.606783	326.107943
146	0.0702	41.1100		0.1168 393.119363	324.647183	326.171477
147	0.0702	41.1100		0.1168 393.639214	324.687869	326.235449
148	0.0702	41.1100		0.1168 394.158327	324.72884	326.299858
149	0.0702	41.1100		0.1168 394.676704	324.770096	326.364703
150	0.0703	41.1100		0.1169 395.194349	324.811636	326.429983
151	0.0703	41.1100		0.1169 395.711267	324.85346	326.495696
152	0.0703	41.1100		0.1169 396.227462	324.895566	326.561842
153	0.0703	41.1100		0.1169 396.742936	324.937955	326.62842
154	0.0704	41.1100		0.1169 397.257694	324.980625	326.695428
155	0.0704	41.1100		0.1170 397.77174	325.023577	326.762865
156	0.0704	41.1100		0.1170 398.285077	325.066809	326.830731
157	0.0704	41.1100		0.1170 398.797709	325.110321	326.899024
158	0.0704	41.1100		0.1170 399.30964	325.154113	326.967743
159	0.0705	41.1100		0.1171 399.820874	325.198183	327.036888

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
160	0.0705	41.1100		0.1171	400.331414	325.242532	327.106456
161	0.0705	41.1100		0.1171	400.841274	325.287158	327.176448
162	0.0705	41.1100		0.1171	401.350462	325.332062	327.246862
163	0.0706	41.1100		0.1172	401.858982	325.377242	327.317697
164	0.0706	41.1100		0.1172	402.366837	325.422699	327.388951
165	0.0706	41.1100		0.1172	402.874031	325.46843	327.460625
166	0.0706	41.1100		0.1172	403.380568	325.514437	327.532717
167	0.0707	41.1100		0.1173	403.886452	325.560718	327.605226
168	0.0707	41.1100		0.1173	404.391685	325.607273	327.678151
169	0.0707	41.1100		0.1173	404.896272	325.654102	327.751491
170	0.0707	41.1100		0.1173	405.400217	325.701203	327.825245
171	0.0708	41.1100		0.1174	405.903522	325.748577	327.899412
172	0.0708	41.1100		0.1174	406.406191	325.796222	327.973992
173	0.0708	41.1100		0.1174	406.908228	325.844138	328.048982
174	0.0708	41.1100		0.1174	407.409637	325.892326	328.124383
175	0.0709	41.1100		0.1175	407.910422	325.940783	328.200192
176	0.0709	41.1100		0.1175	408.410584	325.98951	328.27641
177	0.0709	41.1100		0.1175	408.91013	326.038506	328.353036
178	0.0709	41.1100		0.1176	409.409061	326.087771	328.430067
179	0.0709	41.1100		0.1176	409.907382	326.137304	328.507504
180	0.0710	41.1100		0.1176	410.405096	326.187105	328.585346
181	0.0710	41.1100		0.1176	410.902207	326.237172	328.663591
182	0.0710	41.1100		0.1177	411.398718	326.287507	328.742238
183	0.0710	41.1100		0.1177	411.894634	326.338107	328.821288
184	0.0711	41.1100		0.1177	412.389957	326.388973	328.900737
185	0.0711	41.1100		0.1177	412.88469	326.440104	328.980587
186	0.0711	41.1100		0.1178	413.378839	326.4915	329.060836
187	0.0711	41.1100		0.1178	413.872406	326.54316	329.141482
188	0.0712	41.1100		0.1178	414.365395	326.595083	329.222526
189	0.0712	41.1100		0.1179	414.857809	326.64727	329.303966
190	0.0712	41.1100		0.1179	415.349653	326.699719	329.385801
191	0.0712	41.1100		0.1179	415.840929	326.752431	329.468031
192	0.0713	41.1100		0.1179	416.331641	326.805404	329.550654
193	0.0713	41.1100		0.1180	416.821793	326.858638	329.633669
194	0.0713	41.1100		0.1180	417.311389	326.912133	329.717077
195	0.0713	41.1100		0.1180	417.800432	326.965889	329.800875
196	0.0714	41.1100		0.1181	418.288925	327.019904	329.885063
197	0.0714	41.1100		0.1181	418.776872	327.074178	329.96964
198	0.0714	41.1100		0.1181	419.264277	327.128712	330.054606
199	0.0714	41.1100		0.1182	419.751144	327.183503	330.139959
200	0.0715	41.1100		0.1182	420.237475	327.238553	330.225698

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
201	0.0715	41.1100		0.1182	420.723275	327.29386	330.311823
202	0.0715	41.1100		0.1182	421.208546	327.349425	330.398333
203	0.0715	41.1100		0.1183	421.693294	327.405245	330.485227
204	0.0716	41.1100		0.1183	422.17752	327.461322	330.572504
205	0.0716	41.1100		0.1183	422.66123	327.517655	330.660164
206	0.0716	41.1100		0.1184	423.144426	327.574243	330.748205
207	0.0716	41.1100		0.1184	423.627111	327.631085	330.836626
208	0.0717	41.1100		0.1184	424.10929	327.688182	330.925428
209	0.0717	41.1100		0.1185	424.590967	327.745533	331.014608
210	0.0717	41.1100		0.1185	425.072143	327.803138	331.104167
211	0.0717	41.1100		0.1185	425.552824	327.860995	331.194103
212	0.0718	41.1100		0.1186	426.033013	327.919105	331.284415
213	0.0718	41.1100		0.1186	426.512713	327.977467	331.375104
214	0.0718	41.1100		0.1186	426.991928	328.036081	331.466167
215	0.0718	41.1100		0.1186	427.470662	328.094946	331.557605
216	0.0719	41.1100		0.1187	427.948917	328.154062	331.649416
217	0.0719	41.1100		0.1187	428.426698	328.213429	331.7416
218	0.0719	41.1100		0.1187	428.904008	328.273046	331.834156
219	0.0719	41.1100		0.1188	429.38085	328.332912	331.927082
220	0.0720	41.1100		0.1188	429.857229	328.393028	332.020379
221	0.0720	41.1100		0.1188	430.333148	328.453392	332.114046
222	0.0720	41.1100		0.1189	430.80861	328.514005	332.208081
223	0.0720	41.1100		0.1189	431.283618	328.574866	332.302485
224	0.0721	41.1100		0.1189	431.758177	328.635975	332.397256
225	0.0721	41.1100		0.1190	432.23229	328.69733	332.492393
226	0.0721	41.1100		0.1190	432.70596	328.758933	332.587896
227	0.0721	41.1100		0.1190	433.179191	328.820782	332.683764
228	0.0721	41.1100		0.1191	433.651987	328.882877	332.779996
229	0.0722	41.1100		0.1191	434.124351	328.945217	332.876592
230	0.0722	41.1100		0.1191	434.596286	329.007803	332.973551
231	0.0722	41.1100		0.1192	435.067797	329.070634	333.070872
232	0.0722	41.1100		0.1192	435.538887	329.133709	333.168554
233	0.0722	41.1100		0.1192	436.00956	329.197029	333.266597
234	0.0722	41.1100		0.1193	436.47982	329.260592	333.365
235	0.0723	41.1100		0.1193	436.94967	329.324398	333.463762
236	0.0723	41.1100		0.1193	437.419114	329.388447	333.562883
237	0.0723	41.1100		0.1194	437.888155	329.452739	333.662361
238	0.0723	41.1100		0.1194	438.356797	329.517274	333.762197
239	0.0723	41.1100		0.1194	438.825044	329.58205	333.862389
240	0.0723	41.1100		0.1195	439.2929	329.647067	333.962937
241	0.0723	41.1100		0.1195	439.760367	329.712326	334.06384

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
242	0.0724	41.1100		0.1195	440.22745	329.777825	334.165098
243	0.0724	41.1100		0.1196	440.694151	329.843565	334.266709
244	0.0724	41.1100		0.1196	441.160476	329.909545	334.368673
245	0.0724	41.1100		0.1196	441.626426	329.975765	334.47099
246	0.0724	41.1100		0.1197	442.092006	330.042224	334.573658
247	0.0724	41.1100		0.1197	442.557219	330.108922	334.676678
248	0.0724	41.1100		0.1197	443.022068	330.175859	334.780048
249	0.0725	41.1100		0.1198	443.486558	330.243034	334.883767
250	0.0725	41.1100		0.1198	443.950691	330.310447	334.987836
251	0.0725	41.1100		0.1198	444.414472	330.378097	335.092253
252	0.0725	41.1100		0.1199	444.877902	330.445985	335.197018
253	0.0725	41.1100		0.1199	445.340987	330.51411	335.302131
254	0.0725	41.1100		0.1199	445.803729	330.582472	335.407589
255	0.0725	41.1100		0.1200	446.266131	330.65107	335.513394
256	0.0726	41.1100		0.1200	446.728198	330.719904	335.619544
257	0.0726	41.1100		0.1200	447.189932	330.788973	335.726039
258	0.0726	41.1100		0.1201	447.651337	330.858278	335.832878
259	0.0726	41.1100		0.1201	448.112416	330.927818	335.94006
260	0.0726	41.1100		0.1201	448.573173	330.997593	336.047586
261	0.0726	41.1100		0.1202	449.033611	331.067602	336.155453
262	0.0727	41.1100		0.1202	449.493733	331.137845	336.263662
263	0.0727	41.1100		0.1203	449.953543	331.208321	336.372212
264	0.0727	41.1100		0.1203	450.413044	331.279032	336.481103
265	0.0727	41.1100		0.1203	450.872239	331.349975	336.590334
266	0.0727	41.1100		0.1204	451.331131	331.421151	336.699903
267	0.0727	41.1100		0.1204	451.789724	331.49256	336.809812
268	0.0727	41.1100		0.1204	452.248021	331.564201	336.920059
269	0.0728	41.1100		0.1205	452.706026	331.636074	337.030643
270	0.0728	41.1100		0.1205	453.16374	331.708178	337.141564
271	0.0728	41.1100		0.1205	453.621169	331.780514	337.252822
272	0.0728	41.1100		0.1206	454.078315	331.853081	337.364415
273	0.0728	41.1100		0.1206	454.53518	331.925879	337.476344
274	0.0728	41.1100		0.1206	454.991769	331.998907	337.588607
275	0.0728	41.1100		0.1207	455.448085	332.072165	337.701205
276	0.0729	41.1100		0.1207	455.90413	332.145653	337.814136
277	0.0729	41.1100		0.1207	456.359907	332.219371	337.9274
278	0.0729	41.1100		0.1208	456.815421	332.293318	338.040997
279	0.0729	41.1100		0.1208	457.270674	332.367494	338.154926
280	0.0729	41.1100		0.1208	457.725668	332.441899	338.269186
281	0.0729	41.1100		0.1209	458.180408	332.516532	338.383777
282	0.0730	41.1100		0.1209	458.634896	332.591394	338.498699

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
283	0.0730	41.1100		0.1210	459.089135	332.666484	338.613951
284	0.0730	41.1100		0.1210	459.543129	332.741801	338.729531
285	0.0730	41.1100		0.1210	459.996879	332.817346	338.845441
286	0.0730	41.1100		0.1211	460.450391	332.893118	338.961679
287	0.0730	41.1100		0.1211	460.903665	332.969116	339.078245
288	0.0730	41.1100		0.1211	461.356705	333.045342	339.195138
289	0.0731	41.1100		0.1212	461.809515	333.121794	339.312358
290	0.0731	41.1100		0.1212	462.262097	333.198472	339.429904
291	0.0731	41.1100		0.1212	462.714454	333.275375	339.547776
292	0.0731	41.1100		0.1213	463.166589	333.352505	339.665973
293	0.0731	41.1100		0.1213	463.618504	333.42986	339.784495
294	0.0731	41.1100		0.1213	464.070204	333.507439	339.903342
295	0.0732	41.1100		0.1214	464.521689	333.585244	340.022512
296	0.0732	41.1100		0.1214	464.972965	333.663274	340.142005
297	0.0732	41.1100		0.1214	465.424032	333.741527	340.261822
298	0.0732	41.1100		0.1215	465.874894	333.820005	340.381961
299	0.0732	41.1100		0.1215	466.325554	333.898707	340.502421
300	0.0732	41.1100		0.1215	466.776014	333.977632	340.623204
301	0.0732	41.1100		0.1216	467.226278	334.056781	340.744307
302	0.0733	41.1100		0.1216	467.676348	334.136153	340.86573
303	0.0733	41.1100		0.1217	468.126226	334.215748	340.987474
304	0.0733	41.1100		0.1217	468.575915	334.295566	341.109537
305	0.0733	41.1100		0.1217	469.025419	334.375606	341.23192
306	0.0733	41.1100		0.1218	469.474739	334.455869	341.354621
307	0.0733	41.1100		0.1218	469.923878	334.536353	341.47764
308	0.0733	41.1100		0.1218	470.372839	334.617059	341.600977
309	0.0734	41.1100		0.1219	470.821624	334.697987	341.724632
310	0.0734	41.1100		0.1219	471.270237	334.779137	341.848603
311	0.0734	41.1100		0.1219	471.718679	334.860507	341.972891
312	0.0734	41.1100		0.1220	472.166952	334.942099	342.097495
313	0.0734	41.1100		0.1220	472.615061	335.023911	342.222414
314	0.0734	41.1100		0.1220	473.063006	335.105943	342.347649
315	0.0735	41.1100		0.1221	473.510791	335.188196	342.473199
316	0.0735	41.1100		0.1221	473.958418	335.270669	342.599062
317	0.0735	41.1100		0.1221	474.405888	335.353362	342.72524
318	0.0735	41.1100		0.1222	474.853206	335.436275	342.851731
319	0.0735	41.1100		0.1222	475.300373	335.519407	342.978535
320	0.0735	41.1100		0.1222	475.747391	335.602758	343.105652
321	0.0735	41.1100		0.1223	476.194262	335.686328	343.233081
322	0.0736	41.1100		0.1223	476.64099	335.770118	343.360822
323	0.0736	41.1100		0.1223	477.087576	335.854126	343.488875

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
324	0.0736	41.1100		0.1224	477.534023	335.938352	343.617238
325	0.0736	41.1100		0.1224	477.980333	336.022796	343.745912
326	0.0736	41.1100		0.1225	478.426507	336.107459	343.874896
327	0.0736	41.1100		0.1225	478.872549	336.192339	344.004191
328	0.0737	41.1100		0.1225	479.31846	336.277438	344.133794
329	0.0737	41.1100		0.1226	479.764243	336.362753	344.263707
330	0.0737	41.1100		0.1226	480.209899	336.448286	344.393928
331	0.0737	41.1100		0.1226	480.655432	336.534036	344.524458
332	0.0737	41.1100		0.1227	481.100842	336.620003	344.655295
333	0.0737	41.1100		0.1227	481.546132	336.706187	344.78644
334	0.0737	41.1100		0.1227	481.991304	336.792587	344.917892
335	0.0738	41.1100		0.1228	482.43636	336.879204	345.049651
336	0.0738	41.1100		0.1228	482.881302	336.966037	345.181717
337	0.0738	41.1100		0.1228	483.326133	337.053085	345.314088
338	0.0738	41.1100		0.1229	483.770853	337.14035	345.446765
339	0.0738	41.1100		0.1229	484.215465	337.22783	345.579747
340	0.0738	41.1100		0.1229	484.65997	337.315526	345.713034
341	0.0738	41.1100		0.1230	485.104372	337.403437	345.846626
342	0.0739	41.1100		0.1230	485.548671	337.491563	345.980522
343	0.0739	41.1100		0.1230	485.992869	337.579904	346.114722
344	0.0739	41.1100		0.1231	486.436968	337.66846	346.249225
345	0.0739	41.1100		0.1231	486.880971	337.757231	346.384032
346	0.0739	41.1100		0.1231	487.324878	337.846216	346.519141
347	0.0739	41.1100		0.1232	487.768691	337.935415	346.654553
348	0.0740	41.1100		0.1232	488.212413	338.024828	346.790266
349	0.0740	41.1100		0.1232	488.656045	338.114456	346.926282
350	0.0740	41.1100		0.1233	489.099588	338.204297	347.062599
351	0.0740	41.1100		0.1233	489.543045	338.294351	347.199216
352	0.0740	41.1100		0.1233	489.986416	338.384619	347.336135
353	0.0740	41.1100		0.1234	490.429704	338.475101	347.473354
354	0.0740	41.1100		0.1234	490.87291	338.565795	347.610873
355	0.0741	41.1100		0.1234	491.316036	338.656703	347.748692
356	0.0741	41.1100		0.1235	491.759082	338.747823	347.88681
357	0.0741	41.1100		0.1235	492.202052	338.839156	348.025227
358	0.0741	41.1100		0.1235	492.644946	338.930701	348.163943
359	0.0741	41.1100		0.1236	493.087765	339.022459	348.302957
360	0.0741	41.1100		0.1236	493.530512	339.114429	348.442269
361	0.0741	41.1100		0.1236	493.973187	339.206611	348.581879
362	0.0742	41.1100		0.1237	494.415792	339.299004	348.721786
363	0.0742	41.1100		0.1237	494.858329	339.39161	348.861991
364	0.0742	41.1100		0.1237	495.300798	339.484427	349.002492

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
365	0.0742	41.1100		0.1238 495.743201	339.577456	349.14329
366	0.0742	41.1100		0.1238 496.18554	339.670695	349.284384
367	0.0742	41.1100		0.1238 496.627816	339.764146	349.425773
368	0.0743	41.1100		0.1239 497.070029	339.857808	349.567458
369	0.0743	41.1100		0.1239 497.512182	339.951681	349.709439
370	0.0743	41.1100		0.1239 497.954275	340.045764	349.851714
371	0.0743	41.1100		0.1240 498.39631	340.140058	349.994284
372	0.0743	41.1100		0.1240 498.838288	340.234563	350.137148
373	0.0743	41.1100		0.1240 499.28021	340.329278	350.280306
374	0.0743	41.1100		0.1241 499.722077	340.424202	350.423757
375	0.0744	41.1100		0.1241 500.163891	340.519337	350.567502
376	0.0744	41.1100		0.1241 500.605652	340.614682	350.71154
377	0.0744	41.1100		0.1242 501.047362	340.710236	350.855871
378	0.0744	41.1100		0.1242 501.489021	340.806	351.000494
379	0.0744	41.1100		0.1242 501.930631	340.901973	351.14541
380	0.0744	41.1100		0.1243 502.372193	340.998156	351.290617
381	0.0744	41.1100		0.1243 502.813708	341.094547	351.436116
382	0.0745	41.1100		0.1243 503.255176	341.191148	351.581906
383	0.0745	41.1100		0.1244 503.696599	341.287958	351.727987
384	0.0745	41.1100		0.1244 504.137978	341.384976	351.874359
385	0.0745	41.1100		0.1244 504.579313	341.482203	352.021021
386	0.0745	41.1100		0.1245 505.020606	341.579638	352.167973
387	0.0745	41.1100		0.1245 505.461857	341.677282	352.315215
388	0.0746	41.1100		0.1245 505.903068	341.775134	352.462747
389	0.0746	41.1100		0.1246 506.344238	341.873194	352.610568
390	0.0746	41.1100		0.1246 506.78537	341.971462	352.758677
391	0.0746	41.1100		0.1246 507.226463	342.069938	352.907076
392	0.0746	41.1100		0.1246 507.667519	342.168621	353.055763
393	0.0746	41.1100		0.1247 508.108538	342.267512	353.204738
394	0.0746	41.1100		0.1247 508.549522	342.366611	353.354001
395	0.0747	41.1100		0.1247 508.99047	342.465917	353.503551
396	0.0747	41.1100		0.1248 509.431384	342.56543	353.653388
397	0.0747	41.1100		0.1248 509.872264	342.66515	353.803513
398	0.0747	41.1100		0.1248 510.313111	342.765076	353.953924
399	0.0747	41.1100		0.1249 510.753926	342.86521	354.104622
400	0.0747	41.1100		0.1249 511.19471	342.96555	354.255606
401	0.0747	41.1100		0.1249 511.635462	343.066097	354.406876
402	0.0748	41.1100		0.1250 512.076184	343.166851	354.558431
403	0.0748	41.1100		0.1250 512.516876	343.26781	354.710272
404	0.0748	41.1100		0.1250 512.957539	343.368976	354.862398
405	0.0748	41.1100		0.1251 513.398173	343.470348	355.014809

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
406	0.0748	41.1100		0.1251	513.838779	343.571926	355.167504
407	0.0748	41.1100		0.1251	514.279358	343.673709	355.320483
408	0.0748	41.1100		0.1252	514.71991	343.775698	355.473747
409	0.0749	41.1100		0.1252	515.160435	343.877893	355.627294
410	0.0749	41.1100		0.1252	515.600934	343.980293	355.781125
411	0.0749	41.1100		0.1252	516.041408	344.082899	355.935239
412	0.0749	41.1100		0.1253	516.481857	344.18571	356.089635
413	0.0749	41.1100		0.1253	516.922281	344.288725	356.244315
414	0.0749	41.1100		0.1253	517.362681	344.391946	356.399277
415	0.0750	41.1100		0.1254	517.803057	344.495372	356.554521
416	0.0750	41.1100		0.1254	518.24341	344.599002	356.710046
417	0.0750	41.1100		0.1254	518.68374	344.702837	356.865854
418	0.0750	41.1100		0.1255	519.124048	344.806876	357.021943
419	0.0750	41.1100		0.1255	519.564333	344.91112	357.178312
420	0.0750	41.1100		0.1255	520.004597	345.015568	357.334963
421	0.0750	41.1100		0.1255	520.444839	345.12022	357.491894
422	0.0751	41.1100		0.1256	520.88506	345.225076	357.649106
423	0.0751	41.1100		0.1256	521.32526	345.330136	357.806598
424	0.0751	41.1100		0.1256	521.765439	345.4354	357.964369
425	0.0751	41.1100		0.1257	522.205598	345.540867	358.12242
426	0.0751	41.1100		0.1257	522.645738	345.646538	358.28075
427	0.0751	41.1100		0.1257	523.085857	345.752413	358.439359
428	0.0751	41.1100		0.1258	523.525958	345.85849	358.598247
429	0.0752	41.1100		0.1258	523.966038	345.964771	358.757414
430	0.0752	41.1100		0.1258	524.4061	346.071255	358.916858
431	0.0752	41.1100		0.1258	524.846144	346.177942	359.076581
432	0.0752	41.1100		0.1259	525.286168	346.284832	359.236581
433	0.0752	41.1100		0.1259	525.726174	346.391924	359.396859
434	0.0752	41.1100		0.1259	526.166163	346.499219	359.557414
435	0.0752	41.1100		0.1260	526.606133	346.606717	359.718246
436	0.0753	41.1100		0.1260	527.046085	346.714417	359.879355
437	0.0753	41.1100		0.1260	527.486019	346.822319	360.04074
438	0.0753	41.1100		0.1261	527.925936	346.930423	360.202402
439	0.0753	41.1100		0.1261	528.365836	347.03873	360.364339
440	0.0753	41.1100		0.1261	528.805718	347.147238	360.526552
441	0.0753	41.1100		0.1261	529.245583	347.255948	360.689041
442	0.0753	41.1100		0.1262	529.685431	347.36486	360.851805
443	0.0754	41.1100		0.1262	530.125262	347.473974	361.014843
444	0.0754	41.1100		0.1262	530.565076	347.583289	361.178157
445	0.0754	41.1100		0.1263	531.004873	347.692805	361.341745
446	0.0754	41.1100		0.1263	531.444653	347.802522	361.505607

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
447	0.0754	41.1100		0.1263	531.884417	347.912441	361.669743
448	0.0754	41.1100		0.1264	532.324164	348.022561	361.834152
449	0.0754	41.1100		0.1264	532.763894	348.132881	361.998836
450	0.0755	41.1100		0.1264	533.203608	348.243403	362.163792
451	0.0755	41.1100		0.1264	533.643305	348.354125	362.329021
452	0.0755	41.1100		0.1265	534.082986	348.465048	362.494523
453	0.0755	41.1100		0.1265	534.52265	348.576171	362.660298
454	0.0755	41.1100		0.1265	534.962298	348.687494	362.826344
455	0.0755	41.1100		0.1266	535.401929	348.799018	362.992663
456	0.0755	41.1100		0.1266	535.841543	348.910742	363.159253
457	0.0756	41.1100		0.1266	536.281141	349.022666	363.326115
458	0.0756	41.1100		0.1266	536.720723	349.134789	363.493248
459	0.0756	41.1100		0.1267	537.160287	349.247113	363.660652
460	0.0756	41.1100		0.1267	537.599835	349.359636	363.828327
461	0.0756	41.1100		0.1267	538.039367	349.472359	363.996272
462	0.0756	41.1100		0.1268	538.478881	349.585281	364.164487
463	0.0756	41.1100		0.1268	538.918379	349.698403	364.332973
464	0.0757	41.1100		0.1268	539.35786	349.811724	364.501728
465	0.0757	41.1100		0.1268	539.797324	349.925244	364.670752
466	0.0757	41.1100		0.1269	540.236771	350.038963	364.840046
467	0.0757	41.1100		0.1269	540.6762	350.15288	365.009609
468	0.0757	41.1100		0.1269	541.115613	350.266997	365.179441
469	0.0757	41.1100		0.1269	541.555008	350.381312	365.349541
470	0.0757	41.1100		0.1270	541.994386	350.495826	365.519909
471	0.0758	41.1100		0.1270	542.433747	350.610538	365.690545
472	0.0758	41.1100		0.1270	542.873089	350.725449	365.861449
473	0.0758	41.1100		0.1271	543.312415	350.840558	366.032621
474	0.0758	41.1100		0.1271	543.751722	350.955865	366.20406
475	0.0758	41.1100		0.1271	544.191011	351.07137	366.375766
476	0.0758	41.1100		0.1271	544.630283	351.187073	366.547738
477	0.0758	41.1100		0.1272	545.069536	351.302973	366.719978
478	0.0759	41.1100		0.1272	545.508771	351.419072	366.892483
479	0.0759	41.1100		0.1272	545.947987	351.535367	367.065255
480	0.0759	41.1100		0.1273	546.387185	351.651861	367.238292
481	0.0759	41.1100		0.1273	546.826364	351.768551	367.411595
482	0.0759	41.1100		0.1273	547.265524	351.885439	367.585163
483	0.0759	41.1100		0.1273	547.704666	352.002524	367.758996
484	0.0759	41.1100		0.1274	548.143788	352.119806	367.933094
485	0.0760	41.1100		0.1274	548.582891	352.237285	368.107457
486	0.0760	41.1100		0.1274	549.021974	352.35496	368.282084
487	0.0760	41.1100		0.1274	549.461038	352.472833	368.456975

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
488	0.0760	41.1100		0.1275	549.900081	352.590901	368.63213
489	0.0760	41.1100		0.1275	550.339105	352.709167	368.807548
490	0.0760	41.1100		0.1275	550.778109	352.827628	368.98323
491	0.0760	41.1100		0.1276	551.217093	352.946286	369.159175
492	0.0761	41.1100		0.1276	551.656056	353.06514	369.335382
493	0.0761	41.1100		0.1276	552.094998	353.18419	369.511853
494	0.0761	41.1100		0.1276	552.533919	353.303435	369.688585
495	0.0761	41.1100		0.1277	552.97282	353.422877	369.86558
496	0.0761	41.1100		0.1277	553.411699	353.542514	370.042837
497	0.0761	41.1100		0.1277	553.850557	353.662347	370.220355
498	0.0761	41.1100		0.1277	554.289393	353.782375	370.398135
499	0.0762	41.1100		0.1278	554.728208	353.902598	370.576176
500	0.0762	41.1100		0.1278	555.167001	354.023017	370.754478
501	0.0762	41.1100		0.1278	555.605771	354.14363	370.93304
502	0.0762	41.1100		0.1279	556.044519	354.264439	371.111863
503	0.0762	41.1100		0.1279	556.483245	354.385442	371.290946
504	0.0762	41.1100		0.1279	556.921948	354.506641	371.470289
505	0.0762	41.1100		0.1279	557.360628	354.628034	371.649892
506	0.0763	41.1100		0.1280	557.799285	354.749621	371.829754
507	0.0763	41.1100		0.1280	558.237919	354.871403	372.009875
508	0.0763	41.1100		0.1280	558.676529	354.993379	372.190255
509	0.0763	41.1100		0.1280	559.115116	355.115549	372.370894
510	0.0763	41.1100		0.1281	559.553679	355.237914	372.551791
511	0.0763	41.1100		0.1281	559.992217	355.360472	372.732947
512	0.0763	41.1100		0.1281	560.430731	355.483224	372.91436
513	0.0764	41.1100		0.1281	560.869221	355.60617	373.096031
514	0.0764	41.1100		0.1282	561.307686	355.72931	373.27796
515	0.0764	41.1100		0.1282	561.746127	355.852643	373.460146
516	0.0764	41.1100		0.1282	562.184542	355.976169	373.642589
517	0.0764	41.1100		0.1283	562.622932	356.099889	373.825288
518	0.0764	41.1100		0.1283	563.061296	356.223802	374.008244
519	0.0764	41.1100		0.1283	563.499635	356.347908	374.191457
520	0.0764	41.1100		0.1283	563.937947	356.472207	374.374925
521	0.0765	41.1100		0.1284	564.376234	356.596698	374.558649
522	0.0765	41.1100		0.1284	564.814494	356.721383	374.742629
523	0.0765	41.1100		0.1284	565.252728	356.84626	374.926864
524	0.0765	41.1100		0.1284	565.690935	356.971329	375.111354
525	0.0765	41.1100		0.1285	566.129115	357.096591	375.296098
526	0.0765	41.1100		0.1285	566.567268	357.222045	375.481097
527	0.0765	41.1100		0.1285	567.005394	357.347692	375.666351
528	0.0766	41.1100		0.1285	567.443492	357.47353	375.851858

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
529	0.0766	41.1100		0.1286	567.881563	357.59956	376.03762
530	0.0766	41.1100		0.1286	568.319605	357.725782	376.223635
531	0.0766	41.1100		0.1286	568.757619	357.852196	376.409903
532	0.0766	41.1100		0.1286	569.195606	357.978801	376.596424
533	0.0766	41.1100		0.1287	569.633563	358.105598	376.783198
534	0.0766	41.1100		0.1287	570.071492	358.232586	376.970225
535	0.0767	41.1100		0.1287	570.509392	358.359765	377.157504
536	0.0767	41.1100		0.1287	570.947262	358.487135	377.345035
537	0.0767	41.1100		0.1288	571.385104	358.614697	377.532818
538	0.0767	41.1100		0.1288	571.822916	358.742449	377.720852
539	0.0767	41.1100		0.1288	572.260698	358.870392	377.909138
540	0.0767	41.1100		0.1288	572.69845	358.998526	378.097675
541	0.0767	41.1100		0.1289	573.136172	359.12685	378.286462
542	0.0768	41.1100		0.1289	573.573864	359.255364	378.475501
543	0.0768	41.1100		0.1289	574.011525	359.384069	378.664789
544	0.0768	41.1100		0.1289	574.449156	359.512964	378.854328
545	0.0768	41.1100		0.1290	574.886756	359.64205	379.044117
546	0.0768	41.1100		0.1290	575.324325	359.771325	379.234155
547	0.0768	41.1100		0.1290	575.761862	359.90079	379.424443
548	0.0768	41.1100		0.1290	576.199368	360.030444	379.61498
549	0.0768	41.1100		0.1291	576.636843	360.160289	379.805766
550	0.0769	41.1100		0.1291	577.074285	360.290323	379.9968
551	0.0769	41.1100		0.1291	577.511696	360.420546	380.188083
552	0.0769	41.1100		0.1291	577.949074	360.550958	380.379614
553	0.0769	41.1100		0.1292	578.38642	360.68156	380.571393
554	0.0769	41.1100		0.1292	578.823734	360.812351	380.763419
555	0.0769	41.1100		0.1292	579.261015	360.94333	380.955693
556	0.0769	41.1100		0.1292	579.698263	361.074499	381.148214
557	0.0770	41.1100		0.1293	580.135477	361.205856	381.340982
558	0.0770	41.1100		0.1293	580.572659	361.337401	381.533997
559	0.0770	41.1100		0.1293	581.009807	361.469136	381.727258
560	0.0770	41.1100		0.1293	581.446922	361.601058	381.920766
561	0.0770	41.1100		0.1294	581.884003	361.733169	382.114519
562	0.0770	41.1100		0.1294	582.321049	361.865467	382.308518
563	0.0770	41.1100		0.1294	582.758062	361.997954	382.502762
564	0.0771	41.1100		0.1294	583.195041	362.130629	382.697252
565	0.0771	41.1100		0.1295	583.631985	362.263491	382.891987
566	0.0771	41.1100		0.1295	584.068894	362.396541	383.086966
567	0.0771	41.1100		0.1295	584.505769	362.529779	383.28219
568	0.0771	41.1100		0.1295	584.942608	362.663204	383.477658
569	0.0771	41.1100		0.1296	585.379413	362.796816	383.67337

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K	
570	0.0771	41.1100		0.1296	585.816182	362.930616	383.869326
571	0.0771	41.1100		0.1296	586.252916	363.064602	384.065525
572	0.0772	41.1100		0.1296	586.689614	363.198776	384.261968
573	0.0772	41.1100		0.1297	587.126277	363.333136	384.458653
574	0.0772	41.1100		0.1297	587.562904	363.467683	384.655582
575	0.0772	41.1100		0.1297	587.999494	363.602417	384.852752
576	0.0772	41.1100		0.1297	588.436049	363.737337	385.050165
577	0.0772	41.1100		0.1298	588.872567	363.872443	385.247821
578	0.0772	41.1100		0.1298	589.309049	364.007736	385.445717
579	0.0773	41.1100		0.1298	589.745493	364.143215	385.643856
580	0.0773	41.1100		0.1298	590.181902	364.27888	385.842236
581	0.0773	41.1100		0.1299	590.618273	364.41473	386.040856
582	0.0773	41.1100		0.1299	591.054607	364.550767	386.239718
583	0.0773	41.1100		0.1299	591.490904	364.686989	386.43882
584	0.0773	41.1100		0.1299	591.927164	364.823397	386.638162
585	0.0773	41.1100		0.1300	592.363386	364.95999	386.837745
586	0.0774	41.1100		0.1300	592.79957	365.096769	387.037567
587	0.0774	41.1100		0.1300	593.235717	365.233732	387.237629
588	0.0774	41.1100		0.1300	593.671826	365.370881	387.43793
589	0.0774	41.1100		0.1301	594.107897	365.508215	387.638471
590	0.0774	41.1100		0.1301	594.543929	365.645733	387.83925
591	0.0774	41.1100		0.1301	594.979923	365.783436	388.040267
592	0.0774	41.1100		0.1301	595.415879	365.921324	388.241524
593	0.0774	41.1100		0.1301	595.851797	366.059397	388.443018
594	0.0775	41.1100		0.1302	596.287675	366.197653	388.64475
595	0.0775	41.1100		0.1302	596.723515	366.336094	388.846719
596	0.0775	41.1100		0.1302	597.159316	366.474719	389.048926
597	0.0775	41.1100		0.1302	597.595078	366.613529	389.251371
598	0.0775	41.1100		0.1303	598.0308	366.752522	389.454052
599	0.0775	41.1100		0.1303	598.466484	366.891698	389.656969
600	0.0775	41.1100		0.1303	598.902128	367.031059	389.860124
601	0.0776	41.1100		0.1303	599.337732	367.170603	390.063514
602	0.0776	41.1100		0.1304	599.773297	367.31033	390.26714
603	0.0776	41.1100		0.1304	600.208822	367.450241	390.471002
604	0.0776	41.1100		0.1304	600.644307	367.590335	390.675099
605	0.0776	41.1100		0.1304	601.079752	367.730612	390.879431
606	0.0776	41.1100		0.1305	601.515157	367.871072	391.083999
607	0.0776	41.1100		0.1305	601.950522	368.011715	391.288801
608	0.0776	41.1100		0.1305	602.385847	368.152541	391.493837
609	0.0777	41.1100		0.1305	602.821131	368.293549	391.699108
610	0.0777	41.1100		0.1306	603.256374	368.43474	391.904613

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
611	0.0777	41.1100	0.1306	603.691577	368.576113	392.110351
612	0.0777	41.1100	0.1306	604.12674	368.717668	392.316323
613	0.0777	41.1100	0.1306	604.561861	368.859406	392.522528
614	0.0777	41.1100	0.1306	604.996942	369.001325	392.728966
615	0.0777	41.1100	0.1307	605.431981	369.143427	392.935637
616	0.0778	41.1100	0.1307	605.866979	369.28571	393.14254
617	0.0778	41.1100	0.1307	606.301937	369.428175	393.349676
618	0.0778	41.1100	0.1307	606.736852	369.570821	393.557043
619	0.0778	41.1100	0.1308	607.171727	369.713649	393.764643
620	0.0778	41.1100	0.1308	607.60656	369.856659	393.972473
621	0.0778	41.1100	0.1308	608.041351	369.999849	394.180536
622	0.0778	41.1100	0.1308	608.476101	370.143221	394.388829
623	0.0778	41.1100	0.1309	608.910809	370.286773	394.597353
624	0.0779	41.1100	0.1309	609.345475	370.430506	394.806107
625	0.0779	41.1100	0.1309	609.780099	370.57442	395.015092
626	0.0779	41.1100	0.1309	610.214681	370.718515	395.224307
627	0.0779	41.1100	0.1309	610.649221	370.86279	395.433752
628	0.0779	41.1100	0.1310	611.083719	371.007246	395.643426
629	0.0779	41.1100	0.1310	611.518174	371.151882	395.85333
630	0.0779	41.1100	0.1310	611.952588	371.296697	396.063463
631	0.0780	41.1100	0.1310	612.386958	371.441693	396.273824
632	0.0780	41.1100	0.1311	612.821287	371.586869	396.484415
633	0.0780	41.1100	0.1311	613.255572	371.732225	396.695233
634	0.0780	41.1100	0.1311	613.689815	371.87776	396.90628
635	0.0780	41.1100	0.1311	614.124016	372.023475	397.117555
636	0.0780	41.1100	0.1312	614.558173	372.16937	397.329057
637	0.0780	41.1100	0.1312	614.992288	372.315443	397.540787
638	0.0780	41.1100	0.1312	615.426359	372.461696	397.752744
639	0.0781	41.1100	0.1312	615.860388	372.608128	397.964928
640	0.0781	41.1100	0.1312	616.294374	372.754739	398.177338
641	0.0781	41.1100	0.1313	616.728316	372.901529	398.389975
642	0.0781	41.1100	0.1313	617.162215	373.048497	398.602838
643	0.0781	41.1100	0.1313	617.596071	373.195644	398.815928
644	0.0781	41.1100	0.1313	618.029884	373.34297	399.029243
645	0.0781	41.1100	0.1314	618.463653	373.490474	399.242783
646	0.0782	41.1100	0.1314	618.897378	373.638156	399.456549
647	0.0782	41.1100	0.1314	619.33106	373.786017	399.670539
648	0.0782	41.1100	0.1314	619.764699	373.934055	399.884755
649	0.0782	41.1100	0.1314	620.198294	374.082271	400.099194
650	0.0782	41.1100	0.1315	620.631845	374.230665	400.313865
651	0.0782	41.1100	0.1315	621.065352	374.379237	400.528773

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
652	0.0782	41.1100	0.1315	621.498816	374.527987	400.743919
653	0.0782	41.1100	0.1315	621.932235	374.676913	400.959302
654	0.0783	41.1100	0.1316	622.365611	374.826018	401.174921
655	0.0783	41.1100	0.1316	622.798942	374.975299	401.390778
656	0.0783	41.1100	0.1316	623.23223	375.124757	401.606871
657	0.0783	41.1100	0.1316	623.665474	375.274393	401.823201
658	0.0783	41.1100	0.1317	624.098673	375.424205	402.039767
659	0.0783	41.1100	0.1317	624.531828	375.574194	402.256569
660	0.0783	41.1100	0.1317	624.964939	375.72436	402.473606
661	0.0783	41.1100	0.1317	625.398005	375.874702	402.690879
662	0.0784	41.1100	0.1317	625.831027	376.02522	402.908388
663	0.0784	41.1100	0.1318	626.264005	376.175915	403.126132
664	0.0784	41.1100	0.1318	626.696938	376.326786	403.34411
665	0.0784	41.1100	0.1318	627.129827	376.477833	403.562323
666	0.0784	41.1100	0.1318	627.562671	376.629056	403.780771
667	0.0784	41.1100	0.1319	627.995471	376.780454	403.999453
668	0.0784	41.1100	0.1319	628.428226	376.932029	404.218369
669	0.0785	41.1100	0.1319	628.860936	377.083779	404.437519
670	0.0785	41.1100	0.1319	629.293602	377.235704	404.656903
671	0.0785	41.1100	0.1319	629.726223	377.387805	404.87652
672	0.0785	41.1100	0.1320	630.158799	377.54008	405.09637
673	0.0785	41.1100	0.1320	630.59133	377.692531	405.316454
674	0.0785	41.1100	0.1320	631.023816	377.845157	405.53677
675	0.0785	41.1100	0.1320	631.456258	377.997958	405.757318
676	0.0785	41.1100	0.1321	631.888654	378.150934	405.9781
677	0.0786	41.1100	0.1321	632.321006	378.304084	406.199113
678	0.0786	41.1100	0.1321	632.753312	378.457409	406.420358
679	0.0786	41.1100	0.1321	633.185574	378.610908	406.641835
680	0.0786	41.1100	0.1321	633.61779	378.764581	406.863544
681	0.0786	41.1100	0.1322	634.049961	378.918429	407.085484
682	0.0786	41.1100	0.1322	634.482087	379.072451	407.307655
683	0.0786	41.1100	0.1322	634.914168	379.226646	407.530057
684	0.0787	41.1100	0.1322	635.346204	379.381015	407.75269
685	0.0787	41.1100	0.1322	635.778194	379.535559	407.975553
686	0.0787	41.1100	0.1323	636.210139	379.690275	408.198647
687	0.0787	41.1100	0.1323	636.642039	379.845165	408.42197
688	0.0787	41.1100	0.1323	637.073893	380.000229	408.645524
689	0.0787	41.1100	0.1323	637.505702	380.155465	408.869307
690	0.0787	41.1100	0.1324	637.937466	380.310875	409.09332
691	0.0787	41.1100	0.1324	638.369184	380.466458	409.317561
692	0.0788	41.1100	0.1324	638.800856	380.622214	409.542032

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
693	0.0788	41.1100	0.1324	639.232484	380.778142	409.766732
694	0.0788	41.1100	0.1324	639.664065	380.934243	409.991661
695	0.0788	41.1100	0.1325	640.095602	381.090517	410.216817
696	0.0788	41.1100	0.1325	640.527093	381.246963	410.442202
697	0.0788	41.1100	0.1325	640.958541	381.403581	410.667815
698	0.0788	41.1100	0.1325	641.389945	381.560371	410.893656
699	0.0788	41.1100	0.1326	641.821307	381.717334	411.119725
700	0.0789	41.1100	0.1326	642.252625	381.874469	411.346021
701	0.0789	41.1100	0.1326	642.6839	382.031775	411.572543
702	0.0789	41.1100	0.1326	643.115131	382.189253	411.799293
703	0.0789	41.1100	0.1326	643.546319	382.346903	412.02627
704	0.0789	41.1100	0.1327	643.977463	382.504724	412.253473
705	0.0789	41.1100	0.1327	644.408564	382.662716	412.480903
706	0.0789	41.1100	0.1327	644.839621	382.82088	412.708559
707	0.0790	41.1100	0.1327	645.270635	382.979215	412.936441
708	0.0790	41.1100	0.1327	645.701605	383.137721	413.164548
709	0.0790	41.1100	0.1328	646.132531	383.296398	413.392881
710	0.0790	41.1100	0.1328	646.563414	383.455246	413.621439
711	0.0790	41.1100	0.1328	646.994253	383.614264	413.850223
712	0.0790	41.1100	0.1328	647.425048	383.773453	414.079231
713	0.0790	41.1100	0.1329	647.855799	383.932813	414.308464
714	0.0790	41.1100	0.1329	648.286507	384.092342	414.537922
715	0.0791	41.1100	0.1329	648.717171	384.252042	414.767603
716	0.0791	41.1100	0.1329	649.147791	384.411913	414.997509
717	0.0791	41.1100	0.1329	649.578367	384.571953	415.227639
718	0.0791	41.1100	0.1330	650.008899	384.732163	415.457993
719	0.0791	41.1100	0.1330	650.439388	384.892543	415.68857
720	0.0791	41.1100	0.1330	650.869833	385.053092	415.91937
721	0.0791	41.1100	0.1330	651.300234	385.213811	416.150393
722	0.0791	41.1100	0.1330	651.730592	385.3747	416.38164
723	0.0791	41.1100	0.1331	652.160907	385.535757	416.613108
724	0.0792	41.1100	0.1331	652.591178	385.696984	416.8448
725	0.0792	41.1100	0.1331	653.021405	385.858381	417.076713
726	0.0792	41.1100	0.1331	653.451589	386.019946	417.308849
727	0.0792	41.1100	0.1332	653.88173	386.18168	417.541207
728	0.0792	41.1100	0.1332	654.311827	386.343582	417.773786
729	0.0792	41.1100	0.1332	654.741881	386.505654	418.006586
730	0.0792	41.1100	0.1332	655.171892	386.667893	418.239608
731	0.0792	41.1100	0.1332	655.601858	386.830302	418.472851
732	0.0792	41.1100	0.1333	656.031782	386.992878	418.706315
733	0.0792	41.1100	0.1333	656.461662	387.155623	418.939999

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
734	0.0793	41.1100	0.1333	656.891499	387.318536	419.173904
735	0.0793	41.1100	0.1333	657.321292	387.481617	419.408028
736	0.0793	41.1100	0.1333	657.751042	387.644865	419.642373
737	0.0793	41.1100	0.1334	658.180748	387.808281	419.876938
738	0.0793	41.1100	0.1334	658.610411	387.971865	420.111723
739	0.0793	41.1100	0.1334	659.04003	388.135617	420.346726
740	0.0793	41.1100	0.1334	659.469606	388.299536	420.581949
741	0.0793	41.1100	0.1334	659.899139	388.463622	420.817391
742	0.0793	41.1100	0.1335	660.328628	388.627875	421.053052
743	0.0793	41.1100	0.1335	660.758074	388.792295	421.288932
744	0.0794	41.1100	0.1335	661.187476	388.956883	421.525029
745	0.0794	41.1100	0.1335	661.616835	389.121637	421.761345
746	0.0794	41.1100	0.1336	662.04615	389.286558	421.997879
747	0.0794	41.1100	0.1336	662.475422	389.451645	422.234631
748	0.0794	41.1100	0.1336	662.90465	389.616899	422.471601
749	0.0794	41.1100	0.1336	663.333835	389.782319	422.708787
750	0.0794	41.1100	0.1336	663.762977	389.947906	422.946191
751	0.0794	41.1100	0.1337	664.192075	390.113658	423.183812
752	0.0794	41.1100	0.1337	664.62113	390.279577	423.42165
753	0.0795	41.1100	0.1337	665.050141	390.445662	423.659704
754	0.0795	41.1100	0.1337	665.479109	390.611912	423.897975
755	0.0795	41.1100	0.1337	665.908033	390.778328	424.136462
756	0.0795	41.1100	0.1338	666.336914	390.94491	424.375165
757	0.0795	41.1100	0.1338	666.765752	391.111657	424.614083
758	0.0795	41.1100	0.1338	667.194546	391.27857	424.853218
759	0.0795	41.1100	0.1338	667.623297	391.445648	425.092567
760	0.0795	41.1100	0.1338	668.052004	391.612891	425.332132
761	0.0795	41.1100	0.1339	668.480668	391.780299	425.571912
762	0.0795	41.1100	0.1339	668.909288	391.947871	425.811906
763	0.0796	41.1100	0.1339	669.337865	392.115609	426.052115
764	0.0796	41.1100	0.1339	669.766398	392.283511	426.292539
765	0.0796	41.1100	0.1339	670.194889	392.451578	426.533176
766	0.0796	41.1100	0.1340	670.623335	392.61981	426.774028
767	0.0796	41.1100	0.1340	671.051739	392.788206	427.015093
768	0.0796	41.1100	0.1340	671.480098	392.956765	427.256372
769	0.0796	41.1100	0.1340	671.908415	393.12549	427.497865
770	0.0796	41.1100	0.1340	672.336688	393.294378	427.73957
771	0.0796	41.1100	0.1341	672.764918	393.46343	427.981489
772	0.0797	41.1100	0.1341	673.193104	393.632646	428.22362
773	0.0797	41.1100	0.1341	673.621247	393.802025	428.465964
774	0.0797	41.1100	0.1341	674.049346	393.971568	428.70852

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
775	0.0797	41.1100	0.1341	674.477402	394.141275	428.951288
776	0.0797	41.1100	0.1342	674.905415	394.311145	429.194269
777	0.0797	41.1100	0.1342	675.333384	394.481178	429.437461
778	0.0797	41.1100	0.1342	675.76131	394.651374	429.680865
779	0.0797	41.1100	0.1342	676.189193	394.821733	429.92448
780	0.0797	41.1100	0.1343	676.617032	394.992255	430.168306
781	0.0797	41.1100	0.1343	677.044828	395.16294	430.412343
782	0.0798	41.1100	0.1343	677.47258	395.333788	430.656591
783	0.0798	41.1100	0.1343	677.900289	395.504798	430.90105
784	0.0798	41.1100	0.1343	678.327955	395.67597	431.145719
785	0.0798	41.1100	0.1344	678.755577	395.847305	431.390598
786	0.0798	41.1100	0.1344	679.183156	396.018803	431.635687
787	0.0798	41.1100	0.1344	679.610692	396.190462	431.880986
788	0.0798	41.1100	0.1344	680.038184	396.362283	432.126495
789	0.0798	41.1100	0.1344	680.465633	396.534266	432.372213
790	0.0798	41.1100	0.1345	680.893039	396.706411	432.61814
791	0.0798	41.1100	0.1345	681.320402	396.878718	432.864276
792	0.0799	41.1100	0.1345	681.747721	397.051186	433.110621
793	0.0799	41.1100	0.1345	682.174996	397.223816	433.357174
794	0.0799	41.1100	0.1345	682.602229	397.396607	433.603936
795	0.0799	41.1100	0.1346	683.029418	397.569559	433.850907
796	0.0799	41.1100	0.1346	683.456564	397.742673	434.098085
797	0.0799	41.1100	0.1346	683.883667	397.915947	434.345471
798	0.0799	41.1100	0.1346	684.310726	398.089382	434.593064
799	0.0799	41.1100	0.1346	684.737742	398.262978	434.840865
800	0.0799	41.1100	0.1347	685.164715	398.436735	435.088873
801	0.0800	41.1100	0.1347	685.591645	398.610652	435.337089
802	0.0800	41.1100	0.1347	686.018531	398.78473	435.585511
803	0.0800	41.1100	0.1347	686.445375	398.958968	435.83414
804	0.0800	41.1100	0.1347	686.872175	399.133367	436.082975
805	0.0800	41.1100	0.1348	687.298931	399.307925	436.332016
806	0.0800	41.1100	0.1348	687.725645	399.482643	436.581263
807	0.0800	41.1100	0.1348	688.152315	399.657522	436.830717
808	0.0800	41.1100	0.1348	688.578942	399.83256	437.080376
809	0.0800	41.1100	0.1348	689.005526	400.007758	437.33024
810	0.0800	41.1100	0.1349	689.432067	400.183116	437.580309
811	0.0801	41.1100	0.1349	689.858565	400.358642	437.830584
812	0.0801	41.1100	0.1349	690.285019	400.534337	438.081064
813	0.0801	41.1100	0.1349	690.711431	400.7102	438.331748
814	0.0801	41.1100	0.1349	691.137799	400.886232	438.582636
815	0.0801	41.1100	0.1350	691.564124	401.062431	438.833729

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
816	0.0801	41.1100	0.1350	691.990406	401.238799	439.085026
817	0.0801	41.1100	0.1350	692.416645	401.415335	439.336527
818	0.0801	41.1100	0.1350	692.842841	401.592039	439.588232
819	0.0801	41.1100	0.1350	693.268993	401.76891	439.84014
820	0.0801	41.1100	0.1351	693.695103	401.945949	440.092251
821	0.0802	41.1100	0.1351	694.121169	402.123156	440.344565
822	0.0802	41.1100	0.1351	694.547193	402.300531	440.597083
823	0.0802	41.1100	0.1351	694.973173	402.478072	440.849803
824	0.0802	41.1100	0.1351	695.399111	402.655782	441.102725
825	0.0802	41.1100	0.1352	695.825005	402.833658	441.35585
826	0.0802	41.1100	0.1352	696.250856	403.011702	441.609177
827	0.0802	41.1100	0.1352	696.676665	403.189913	441.862706
828	0.0802	41.1100	0.1352	697.10243	403.368291	442.116437
829	0.0802	41.1100	0.1352	697.528152	403.546835	442.370369
830	0.0802	41.1100	0.1353	697.953832	403.725547	442.624503
831	0.0803	41.1100	0.1353	698.379468	403.904425	442.878837
832	0.0803	41.1100	0.1353	698.805062	404.08347	443.133373
833	0.0803	41.1100	0.1353	699.230612	404.262681	443.388109
834	0.0803	41.1100	0.1353	699.65612	404.442059	443.643046
835	0.0803	41.1100	0.1353	700.081584	404.621603	443.898184
836	0.0803	41.1100	0.1354	700.507006	404.801314	444.153521
837	0.0803	41.1100	0.1354	700.932385	404.981191	444.409059
838	0.0803	41.1100	0.1354	701.357721	405.161234	444.664796
839	0.0803	41.1100	0.1354	701.783014	405.341442	444.920733
840	0.0804	41.1100	0.1354	702.208264	405.521817	445.176869
841	0.0804	41.1100	0.1355	702.633472	405.702358	445.433205
842	0.0804	41.1100	0.1355	703.058636	405.883064	445.689739
843	0.0804	41.1100	0.1355	703.483758	406.063936	445.946473
844	0.0804	41.1100	0.1355	703.908837	406.244973	446.203405
845	0.0804	41.1100	0.1355	704.333873	406.426176	446.460535
846	0.0804	41.1100	0.1356	704.758866	406.607545	446.717864
847	0.0804	41.1100	0.1356	705.183817	406.789078	446.975391
848	0.0804	41.1100	0.1356	705.608725	406.970777	447.233115
849	0.0804	41.1100	0.1356	706.03359	407.152641	447.491037
850	0.0805	41.1100	0.1356	706.458412	407.33467	447.749157
851	0.0805	41.1100	0.1357	706.883192	407.516864	448.007474
852	0.0805	41.1100	0.1357	707.307928	407.699222	448.265988
853	0.0805	41.1100	0.1357	707.732623	407.881746	448.524699
854	0.0805	41.1100	0.1357	708.157274	408.064434	448.783607
855	0.0805	41.1100	0.1357	708.581883	408.247286	449.042711
856	0.0805	41.1100	0.1358	709.006449	408.430303	449.302012

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
857	0.0805	41.1100	0.1358	709.430973	408.613485	449.561509
858	0.0805	41.1100	0.1358	709.855454	408.796831	449.821201
859	0.0805	41.1100	0.1358	710.279892	408.980341	450.08109
860	0.0806	41.1100	0.1358	710.704288	409.164015	450.341173
861	0.0806	41.1100	0.1359	711.128641	409.347853	450.601453
862	0.0806	41.1100	0.1359	711.552951	409.531855	450.861927
863	0.0806	41.1100	0.1359	711.977219	409.716021	451.122597
864	0.0806	41.1100	0.1359	712.401445	409.90035	451.383461
865	0.0806	41.1100	0.1359	712.825627	410.084843	451.64452
866	0.0806	41.1100	0.1359	713.249768	410.2695	451.905773
867	0.0806	41.1100	0.1360	713.673866	410.45432	452.16722
868	0.0806	41.1100	0.1360	714.097921	410.639304	452.428862
869	0.0806	41.1100	0.1360	714.521934	410.824451	452.690697
870	0.0807	41.1100	0.1360	714.945904	411.009761	452.952726
871	0.0807	41.1100	0.1360	715.369832	411.195235	453.214948
872	0.0807	41.1100	0.1361	715.793718	411.380871	453.477364
873	0.0807	41.1100	0.1361	716.217561	411.56667	453.739973
874	0.0807	41.1100	0.1361	716.641362	411.752632	454.002774
875	0.0807	41.1100	0.1361	717.06512	411.938757	454.265769
876	0.0807	41.1100	0.1361	717.488836	412.125045	454.528955
877	0.0807	41.1100	0.1362	717.91251	412.311495	454.792334
878	0.0807	41.1100	0.1362	718.336141	412.498108	455.055906
879	0.0807	41.1100	0.1362	718.75973	412.684883	455.319669
880	0.0808	41.1100	0.1362	719.183277	412.87182	455.583624
881	0.0808	41.1100	0.1362	719.606781	413.05892	455.84777
882	0.0808	41.1100	0.1363	720.030243	413.246181	456.112108
883	0.0808	41.1100	0.1363	720.453663	413.433605	456.376637
884	0.0808	41.1100	0.1363	720.87704	413.621191	456.641357
885	0.0808	41.1100	0.1363	721.300376	413.808938	456.906267
886	0.0808	41.1100	0.1363	721.723669	413.996848	457.171369
887	0.0808	41.1100	0.1363	722.14692	414.184919	457.436661
888	0.0808	41.1100	0.1364	722.570128	414.373151	457.702142
889	0.0809	41.1100	0.1364	722.993295	414.561546	457.967814
890	0.0809	41.1100	0.1364	723.416419	414.750101	458.233676
891	0.0809	41.1100	0.1364	723.839502	414.938818	458.499728
892	0.0809	41.1100	0.1364	724.262542	415.127696	458.765969
893	0.0809	41.1100	0.1365	724.68554	415.316735	459.032399
894	0.0809	41.1100	0.1365	725.108495	415.505936	459.299018
895	0.0809	41.1100	0.1365	725.531409	415.695297	459.565827
896	0.0809	41.1100	0.1365	725.954281	415.884819	459.832824
897	0.0809	41.1100	0.1365	726.377111	416.074502	460.100009

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
898	0.0809	41.1100		0.1366	726.799898	416.264346	460.367383
899	0.0810	41.1100		0.1366	727.222644	416.454351	460.634945
900	0.0810	41.1100		0.1366	727.645348	416.644515	460.902695
901	0.0810	41.1100		0.1366	728.068009	416.834841	461.170632
902	0.0810	41.1100		0.1366	728.490629	417.025326	461.438758
903	0.0810	41.1100		0.1367	728.913207	417.215972	461.70707
904	0.0810	41.1100		0.1367	729.335743	417.406778	461.97557
905	0.0810	41.1100		0.1367	729.758236	417.597745	462.244257
906	0.0810	41.1100		0.1367	730.180688	417.788871	462.513131
907	0.0810	41.1100		0.1367	730.603099	417.980157	462.782191
908	0.0810	41.1100		0.1367	731.025467	418.171603	463.051438
909	0.0811	41.1100		0.1368	731.447793	418.363208	463.320871
910	0.0811	41.1100		0.1368	731.870078	418.554974	463.590491
911	0.0811	41.1100		0.1368	732.292321	418.746899	463.860296
912	0.0811	41.1100		0.1368	732.714521	418.938983	464.130287
913	0.0811	41.1100		0.1368	733.136681	419.131227	464.400463
914	0.0811	41.1100		0.1369	733.558798	419.32363	464.670825
915	0.0811	41.1100		0.1369	733.980874	419.516192	464.941372
916	0.0811	41.1100		0.1369	734.402908	419.708913	465.212103
917	0.0811	41.1100		0.1369	734.8249	419.901793	465.48302
918	0.0811	41.1100		0.1369	735.24685	420.094832	465.754121
919	0.0812	41.1100		0.1369	735.668759	420.288031	466.025407
920	0.0812	41.1100		0.1370	736.090626	420.481387	466.296877
921	0.0812	41.1100		0.1370	736.512452	420.674903	466.568531
922	0.0812	41.1100		0.1370	736.934236	420.868577	466.840368
923	0.0812	41.1100		0.1370	737.355978	421.062409	467.11239
924	0.0812	41.1100		0.1370	737.777678	421.2564	467.384595
925	0.0812	41.1100		0.1371	738.199337	421.45055	467.656983
926	0.0812	41.1100		0.1371	738.620955	421.644857	467.929554
927	0.0812	41.1100		0.1371	739.042531	421.839323	468.202308
928	0.0812	41.1100		0.1371	739.464065	422.033946	468.475245
929	0.0813	41.1100		0.1371	739.885558	422.228728	468.748365
930	0.0813	41.1100		0.1372	740.30701	422.423668	469.021666
931	0.0813	41.1100		0.1372	740.72842	422.618765	469.295151
932	0.0813	41.1100		0.1372	741.149788	422.81402	469.568817
933	0.0813	41.1100		0.1372	741.571115	423.009433	469.842664
934	0.0813	41.1100		0.1372	741.992401	423.205003	470.116694
935	0.0813	41.1100		0.1372	742.413645	423.40073	470.390905
936	0.0813	41.1100		0.1373	742.834848	423.596615	470.665297
937	0.0813	41.1100		0.1373	743.256009	423.792657	470.93987
938	0.0813	41.1100		0.1373	743.677129	423.988856	471.214624

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
939	0.0814	41.1100	0.1373	744.098208	424.185213	471.489559
940	0.0814	41.1100	0.1373	744.519246	424.381726	471.764675
941	0.0814	41.1100	0.1374	744.940242	424.578397	472.03997
942	0.0814	41.1100	0.1374	745.361197	424.775224	472.315446
943	0.0814	41.1100	0.1374	745.78211	424.972207	472.591102
944	0.0814	41.1100	0.1374	746.202983	425.169348	472.866938
945	0.0814	41.1100	0.1374	746.623814	425.366645	473.142953
946	0.0814	41.1100	0.1374	747.044604	425.564098	473.419148
947	0.0814	41.1100	0.1375	747.465352	425.761708	473.695521
948	0.0814	41.1100	0.1375	747.88606	425.959474	473.972074
949	0.0815	41.1100	0.1375	748.306726	426.157397	474.248806
950	0.0815	41.1100	0.1375	748.727351	426.355475	474.525717
951	0.0815	41.1100	0.1375	749.147936	426.55371	474.802806
952	0.0815	41.1100	0.1376	749.568479	426.7521	475.080073
953	0.0815	41.1100	0.1376	749.988981	426.950646	475.357519
954	0.0815	41.1100	0.1376	750.409441	427.149348	475.635142
955	0.0815	41.1100	0.1376	750.829861	427.348206	475.912943
956	0.0815	41.1100	0.1376	751.25024	427.547219	476.190922
957	0.0815	41.1100	0.1376	751.670578	427.746388	476.469078
958	0.0815	41.1100	0.1377	752.090875	427.945712	476.747411
959	0.0816	41.1100	0.1377	752.51113	428.145192	477.025922
960	0.0816	41.1100	0.1377	752.931345	428.344826	477.304609
961	0.0816	41.1100	0.1377	753.351519	428.544616	477.583473
962	0.0816	41.1100	0.1377	753.771652	428.744561	477.862514
963	0.0816	41.1100	0.1378	754.191744	428.944661	478.141731
964	0.0816	41.1100	0.1378	754.611795	429.144916	478.421123
965	0.0816	41.1100	0.1378	755.031806	429.345325	478.700692
966	0.0816	41.1100	0.1378	755.451775	429.54589	478.980437
967	0.0816	41.1100	0.1378	755.871704	429.746609	479.260357
968	0.0816	41.1100	0.1378	756.291591	429.947482	479.540453
969	0.0817	41.1100	0.1379	756.711438	430.14851	479.820724
970	0.0817	41.1100	0.1379	757.131245	430.349692	480.10117
971	0.0817	41.1100	0.1379	757.55101	430.551029	480.38179
972	0.0817	41.1100	0.1379	757.970735	430.75252	480.662586
973	0.0817	41.1100	0.1379	758.390419	430.954164	480.943556
974	0.0817	41.1100	0.1380	758.810062	431.155963	481.2247
975	0.0817	41.1100	0.1380	759.229665	431.357916	481.506019
976	0.0817	41.1100	0.1380	759.649227	431.560023	481.787511
977	0.0817	41.1100	0.1380	760.068748	431.762283	482.069177
978	0.0817	41.1100	0.1380	760.488229	431.964697	482.351017
979	0.0818	41.1100	0.1380	760.907669	432.167265	482.63303

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
980	0.0818	41.1100		0.1381	761.327068	432.369986	482.915217
981	0.0818	41.1100		0.1381	761.746427	432.57286	483.197576
982	0.0818	41.1100		0.1381	762.165746	432.775888	483.480108
983	0.0818	41.1100		0.1381	762.585023	432.979069	483.762813
984	0.0818	41.1100		0.1381	763.004261	433.182403	484.045691
985	0.0818	41.1100		0.1382	763.423458	433.38589	484.328741
986	0.0818	41.1100		0.1382	763.842614	433.589531	484.611963
987	0.0818	41.1100		0.1382	764.26173	433.793324	484.895357
988	0.0818	41.1100		0.1382	764.680805	433.99727	485.178923
989	0.0819	41.1100		0.1382	765.09984	434.201368	485.46266
990	0.0819	41.1100		0.1382	765.518835	434.405619	485.746569
991	0.0819	41.1100		0.1383	765.937789	434.610023	486.03065
992	0.0819	41.1100		0.1383	766.356703	434.814579	486.314901
993	0.0819	41.1100		0.1383	766.775576	435.019288	486.599323
994	0.0819	41.1100		0.1383	767.194409	435.224149	486.883916
995	0.0819	41.1100		0.1383	767.613202	435.429162	487.168679
996	0.0819	41.1100		0.1383	768.031955	435.634327	487.453613
997	0.0819	41.1100		0.1384	768.450667	435.839644	487.738717
998	0.0819	41.1100		0.1384	768.869339	436.045113	488.023991
999	0.0820	41.1100		0.1384	769.287971	436.250734	488.309435
1000	0.0820	41.1100		0.1384	769.706562	436.456506	488.595049
1001	0.0820	41.1100		0.1384	770.125113	436.662431	488.880831
1002	0.0820	41.1100		0.1385	770.543625	436.868507	489.166784
1003	0.0820	41.1100		0.1385	770.962096	437.074734	489.452905
1004	0.0820	41.1100		0.1385	771.380526	437.281113	489.739196
1005	0.0820	41.1100		0.1385	771.798917	437.487643	490.025655
1006	0.0820	41.1100		0.1385	772.217268	437.694324	490.312282
1007	0.0820	41.1100		0.1385	772.635578	437.901157	490.599078
1008	0.0820	41.1100		0.1386	773.053849	438.10814	490.886043
1009	0.0821	41.1100		0.1386	773.472079	438.315275	491.173175
1010	0.0821	41.1100		0.1386	773.890269	438.52256	491.460475
1011	0.0821	41.1100		0.1386	774.30842	438.729996	491.747943
1012	0.0821	41.1100		0.1386	774.72653	438.937583	492.035579
1013	0.0821	41.1100		0.1386	775.1446	439.145321	492.323382
1014	0.0821	41.1100		0.1387	775.562631	439.353209	492.611352
1015	0.0821	41.1100		0.1387	775.980621	439.561247	492.899489
1016	0.0821	41.1100		0.1387	776.398572	439.769436	493.187793
1017	0.0821	41.1100		0.1387	776.816483	439.977775	493.476263
1018	0.0821	41.1100		0.1387	777.234353	440.186265	493.7649
1019	0.0822	41.1100		0.1388	777.652184	440.394904	494.053703
1020	0.0822	41.1100		0.1388	778.069975	440.603694	494.342673

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1021	0.0822	41.1100		0.1388	778.487727	440.812633	494.631808
1022	0.0822	41.1100		0.1388	778.905438	441.021722	494.921109
1023	0.0822	41.1100		0.1388	779.32311	441.230961	495.210576
1024	0.0822	41.1100		0.1388	779.740742	441.44035	495.500208
1025	0.0822	41.1100		0.1389	780.158334	441.649889	495.790005
1026	0.0822	41.1100		0.1389	780.575886	441.859576	496.079967
1027	0.0822	41.1100		0.1389	780.993399	442.069414	496.370095
1028	0.0822	41.1100		0.1389	781.410872	442.2794	496.660387
1029	0.0823	41.1100		0.1389	781.828305	442.489536	496.950843
1030	0.0823	41.1100		0.1389	782.245699	442.699821	497.241464
1031	0.0823	41.1100		0.1390	782.663053	442.910255	497.532249
1032	0.0823	41.1100		0.1390	783.080367	443.120838	497.823198
1033	0.0823	41.1100		0.1390	783.497642	443.33157	498.114311
1034	0.0823	41.1100		0.1390	783.914877	443.542451	498.405587
1035	0.0823	41.1100		0.1390	784.332073	443.753481	498.697027
1036	0.0823	41.1100		0.1390	784.749229	443.964659	498.98863
1037	0.0823	41.1100		0.1391	785.166346	444.175986	499.280397
1038	0.0823	41.1100		0.1391	785.583423	444.387461	499.572326
1039	0.0824	41.1100		0.1391	786.00046	444.599085	499.864418
1040	0.0824	41.1100		0.1391	786.417458	444.810857	500.156673
1041	0.0824	41.1100		0.1391	786.834417	445.022777	500.44909
1042	0.0824	41.1100		0.1392	787.251336	445.234845	500.74167
1043	0.0824	41.1100		0.1392	787.668216	445.447061	501.034411
1044	0.0824	41.1100		0.1392	788.085057	445.659426	501.327315
1045	0.0824	41.1100		0.1392	788.501858	445.871938	501.62038
1046	0.0824	41.1100		0.1392	788.91862	446.084598	501.913607
1047	0.0824	41.1100		0.1392	789.335342	446.297406	502.206995
1048	0.0824	41.1100		0.1393	789.752025	446.510361	502.500544
1049	0.0825	41.1100		0.1393	790.168669	446.723464	502.794255
1050	0.0825	41.1100		0.1393	790.585273	446.936714	503.088126
1051	0.0825	41.1100		0.1393	791.001839	447.150112	503.382158
1052	0.0825	41.1100		0.1393	791.418365	447.363657	503.676351
1053	0.0825	41.1100		0.1393	791.834851	447.577349	503.970704
1054	0.0825	41.1100		0.1394	792.251299	447.791188	504.265217
1055	0.0825	41.1100		0.1394	792.667707	448.005174	504.55989
1056	0.0825	41.1100		0.1394	793.084077	448.219308	504.854723
1057	0.0825	41.1100		0.1394	793.500407	448.433588	505.149716
1058	0.0825	41.1100		0.1394	793.916698	448.648014	505.444868
1059	0.0826	41.1100		0.1394	794.33295	448.862588	505.740179
1060	0.0826	41.1100		0.1395	794.749162	449.077308	506.03565
1061	0.0826	41.1100		0.1395	795.165336	449.292175	506.331279

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1062	0.0826	41.1100		0.1395	795.581471	449.507188	506.627068
1063	0.0826	41.1100		0.1395	795.997566	449.722347	506.923015
1064	0.0826	41.1100		0.1395	796.413623	449.937653	507.21912
1065	0.0826	41.1100		0.1395	796.829641	450.153104	507.515384
1066	0.0826	41.1100		0.1396	797.245619	450.368702	507.811806
1067	0.0826	41.1100		0.1396	797.661559	450.584446	508.108386
1068	0.0826	41.1100		0.1396	798.07746	450.800336	508.405123
1069	0.0827	41.1100		0.1396	798.493322	451.016372	508.702019
1070	0.0827	41.1100		0.1396	798.909145	451.232553	508.999071
1071	0.0827	41.1100		0.1397	799.324929	451.44888	509.296281
1072	0.0827	41.1100		0.1397	799.740674	451.665353	509.593648
1073	0.0827	41.1100		0.1397	800.15638	451.881971	509.891172
1074	0.0827	41.1100		0.1397	800.572048	452.098734	510.188853
1075	0.0827	41.1100		0.1397	800.987677	452.315643	510.48669
1076	0.0827	41.1100		0.1397	801.403266	452.532697	510.784684
1077	0.0827	41.1100		0.1398	801.818818	452.749896	511.082834
1078	0.0827	41.1100		0.1398	802.23433	452.96724	511.38114
1079	0.0828	41.1100		0.1398	802.649804	453.18473	511.679602
1080	0.0828	41.1100		0.1398	803.065239	453.402364	511.978219
1081	0.0828	41.1100		0.1398	803.480635	453.620143	512.276992
1082	0.0828	41.1100		0.1398	803.895993	453.838066	512.575921
1083	0.0828	41.1100		0.1399	804.311312	454.056135	512.875005
1084	0.0828	41.1100		0.1399	804.726592	454.274348	513.174244
1085	0.0828	41.1100		0.1399	805.141834	454.492705	513.473637
1086	0.0828	41.1100		0.1399	805.557037	454.711207	513.773186
1087	0.0828	41.1100		0.1399	805.972201	454.929853	514.072889
1088	0.0828	41.1100		0.1399	806.387327	455.148643	514.372746
1089	0.0829	41.1100		0.1400	806.802415	455.367577	514.672758
1090	0.0829	41.1100		0.1400	807.217464	455.586656	514.972923
1091	0.0829	41.1100		0.1400	807.632474	455.805878	515.273243
1092	0.0829	41.1100		0.1400	808.047446	456.025244	515.573716
1093	0.0829	41.1100		0.1400	808.462379	456.244754	515.874343
1094	0.0829	41.1100		0.1400	808.877274	456.464408	516.175123
1095	0.0829	41.1100		0.1401	809.292131	456.684205	516.476056
1096	0.0829	41.1100		0.1401	809.706949	456.904146	516.777143
1097	0.0829	41.1100		0.1401	810.121729	457.124231	517.078382
1098	0.0829	41.1100		0.1401	810.53647	457.344458	517.379774
1099	0.0829	41.1100		0.1401	810.951173	457.564829	517.681318
1100	0.0830	41.1100		0.1401	811.365838	457.785344	517.983015
1101	0.0830	41.1100		0.1402	811.780465	458.006001	518.284864
1102	0.0830	41.1100		0.1402	812.195053	458.226801	518.586865

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K	
1103	0.0830	41.1100		0.1402	812.609602	458.447745	518.889017
1104	0.0830	41.1100		0.1402	813.024114	458.668831	519.191322
1105	0.0830	41.1100		0.1402	813.438587	458.89006	519.493778
1106	0.0830	41.1100		0.1402	813.853022	459.111431	519.796385
1107	0.0830	41.1100		0.1403	814.267419	459.332946	520.099144
1108	0.0830	41.1100		0.1403	814.681778	459.554602	520.402053
1109	0.0830	41.1100		0.1403	815.096099	459.776402	520.705114
1110	0.0831	41.1100		0.1403	815.510381	459.998343	521.008325
1111	0.0831	41.1100		0.1403	815.924625	460.220427	521.311686
1112	0.0831	41.1100		0.1403	816.338831	460.442653	521.615198
1113	0.0831	41.1100		0.1404	816.752999	460.665021	521.91886
1114	0.0831	41.1100		0.1404	817.167129	460.887531	522.222672
1115	0.0831	41.1100		0.1404	817.581221	461.110183	522.526634
1116	0.0831	41.1100		0.1404	817.995275	461.332977	522.830746
1117	0.0831	41.1100		0.1404	818.409291	461.555913	523.135007
1118	0.0831	41.1100		0.1404	818.823269	461.778991	523.439418
1119	0.0831	41.1100		0.1405	819.237209	462.00221	523.743978
1120	0.0832	41.1100		0.1405	819.651111	462.22557	524.048686
1121	0.0832	41.1100		0.1405	820.064975	462.449072	524.353544
1122	0.0832	41.1100		0.1405	820.478801	462.672715	524.65855
1123	0.0832	41.1100		0.1405	820.892589	462.8965	524.963705
1124	0.0832	41.1100		0.1405	821.306339	463.120426	525.269008
1125	0.0832	41.1100		0.1406	821.720052	463.344493	525.574459
1126	0.0832	41.1100		0.1406	822.133726	463.5687	525.880059
1127	0.0832	41.1100		0.1406	822.547363	463.793049	526.185806
1128	0.0832	41.1100		0.1406	822.960962	464.017539	526.491701
1129	0.0832	41.1100		0.1406	823.374523	464.242169	526.797744
1130	0.0833	41.1100		0.1406	823.788046	464.46694	527.103933
1131	0.0833	41.1100		0.1407	824.201532	464.691852	527.41027
1132	0.0833	41.1100		0.1407	824.61498	464.916904	527.716755
1133	0.0833	41.1100		0.1407	825.02839	465.142097	528.023386
1134	0.0833	41.1100		0.1407	825.441762	465.36743	528.330163
1135	0.0833	41.1100		0.1407	825.855097	465.592903	528.637087
1136	0.0833	41.1100		0.1407	826.268394	465.818516	528.944158
1137	0.0833	41.1100		0.1408	826.681654	466.04427	529.251375
1138	0.0833	41.1100		0.1408	827.094876	466.270163	529.558738
1139	0.0833	41.1100		0.1408	827.50806	466.496197	529.866247
1140	0.0834	41.1100		0.1408	827.921206	466.72237	530.173901
1141	0.0834	41.1100		0.1408	828.334315	466.948683	530.481701
1142	0.0834	41.1100		0.1408	828.747387	467.175135	530.789647
1143	0.0834	41.1100		0.1409	829.160421	467.401728	531.097737

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1144	0.0834	41.1100		0.1409	829.573417	467.62846	531.405973
1145	0.0834	41.1100		0.1409	829.986376	467.855331	531.714354
1146	0.0834	41.1100		0.1409	830.399298	468.082341	532.022879
1147	0.0834	41.1100		0.1409	830.812182	468.309491	532.33155
1148	0.0834	41.1100		0.1409	831.225028	468.53678	532.640364
1149	0.0834	41.1100		0.1410	831.637837	468.764208	532.949323
1150	0.0834	41.1100		0.1410	832.050609	468.991775	533.258426
1151	0.0835	41.1100		0.1410	832.463343	469.219481	533.567672
1152	0.0835	41.1100		0.1410	832.87604	469.447326	533.877063
1153	0.0835	41.1100		0.1410	833.2887	469.675309	534.186597
1154	0.0835	41.1100		0.1410	833.701322	469.903432	534.496275
1155	0.0835	41.1100		0.1411	834.113907	470.131692	534.806096
1156	0.0835	41.1100		0.1411	834.526454	470.360092	535.11606
1157	0.0835	41.1100		0.1411	834.938965	470.588629	535.426167
1158	0.0835	41.1100		0.1411	835.351438	470.817306	535.736416
1159	0.0835	41.1100		0.1411	835.763874	471.04612	536.046809
1160	0.0835	41.1100		0.1411	836.176272	471.275072	536.357344
1161	0.0836	41.1100		0.1411	836.588634	471.504163	536.668021
1162	0.0836	41.1100		0.1412	837.000958	471.733392	536.978841
1163	0.0836	41.1100		0.1412	837.413245	471.962758	537.289802
1164	0.0836	41.1100		0.1412	837.825495	472.192262	537.600905
1165	0.0836	41.1100		0.1412	838.237708	472.421905	537.91215
1166	0.0836	41.1100		0.1412	838.649883	472.651684	538.223537
1167	0.0836	41.1100		0.1412	839.062022	472.881602	538.535064
1168	0.0836	41.1100		0.1413	839.474123	473.111657	538.846733
1169	0.0836	41.1100		0.1413	839.886188	473.341849	539.158543
1170	0.0836	41.1100		0.1413	840.298215	473.572179	539.470494
1171	0.0837	41.1100		0.1413	840.710206	473.802646	539.782586
1172	0.0837	41.1100		0.1413	841.122159	474.03325	540.094818
1173	0.0837	41.1100		0.1413	841.534075	474.263991	540.407191
1174	0.0837	41.1100		0.1414	841.945955	474.494869	540.719703
1175	0.0837	41.1100		0.1414	842.357797	474.725884	541.032356
1176	0.0837	41.1100		0.1414	842.769603	474.957036	541.345149
1177	0.0837	41.1100		0.1414	843.181371	475.188325	541.658082
1178	0.0837	41.1100		0.1414	843.593103	475.41975	541.971154
1179	0.0837	41.1100		0.1414	844.004798	475.651312	542.284365
1180	0.0837	41.1100		0.1415	844.416456	475.883011	542.597716
1181	0.0838	41.1100		0.1415	844.828077	476.114846	542.911206
1182	0.0838	41.1100		0.1415	845.239661	476.346817	543.224835
1183	0.0838	41.1100		0.1415	845.651208	476.578925	543.538603
1184	0.0838	41.1100		0.1415	846.062719	476.811168	543.852509

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1185	0.0838	41.1100		0.1415	846.474193	477.043548	544.166554
1186	0.0838	41.1100		0.1416	846.88563	477.276064	544.480737
1187	0.0838	41.1100		0.1416	847.297031	477.508716	544.795059
1188	0.0838	41.1100		0.1416	847.708394	477.741503	545.109518
1189	0.0838	41.1100		0.1416	848.119721	477.974427	545.424115
1190	0.0838	41.1100		0.1416	848.531012	478.207486	545.73885
1191	0.0838	41.1100		0.1416	848.942265	478.440681	546.053723
1192	0.0839	41.1100		0.1417	849.353482	478.674011	546.368733
1193	0.0839	41.1100		0.1417	849.764663	478.907477	546.68388
1194	0.0839	41.1100		0.1417	850.175806	479.141078	546.999164
1195	0.0839	41.1100		0.1417	850.586913	479.374814	547.314585
1196	0.0839	41.1100		0.1417	850.997984	479.608685	547.630143
1197	0.0839	41.1100		0.1417	851.409018	479.842692	547.945837
1198	0.0839	41.1100		0.1417	851.820016	480.076834	548.261668
1199	0.0839	41.1100		0.1418	852.230977	480.31111	548.577635
1200	0.0839	41.1100		0.1418	852.641901	480.545522	548.893738
1201	0.0839	41.1100		0.1418	853.052789	480.780068	549.209977
1202	0.0840	41.1100		0.1418	853.46364	481.014749	549.526352
1203	0.0840	41.1100		0.1418	853.874456	481.249564	549.842863
1204	0.0840	41.1100		0.1418	854.285234	481.484514	550.159509
1205	0.0840	41.1100		0.1419	854.695976	481.719599	550.47629
1206	0.0840	41.1100		0.1419	855.106682	481.954818	550.793207
1207	0.0840	41.1100		0.1419	855.517352	482.190171	551.110259
1208	0.0840	41.1100		0.1419	855.927985	482.425658	551.427445
1209	0.0840	41.1100		0.1419	856.338581	482.66128	551.744766
1210	0.0840	41.1100		0.1419	856.749142	482.897035	552.062222
1211	0.0840	41.1100		0.1420	857.159666	483.132925	552.379812
1212	0.0841	41.1100		0.1420	857.570154	483.368948	552.697537
1213	0.0841	41.1100		0.1420	857.980605	483.605105	553.015395
1214	0.0841	41.1100		0.1420	858.39102	483.841396	553.333388
1215	0.0841	41.1100		0.1420	858.801399	484.07782	553.651514
1216	0.0841	41.1100		0.1420	859.211742	484.314379	553.969774
1217	0.0841	41.1100		0.1420	859.622049	484.55107	554.288167
1218	0.0841	41.1100		0.1421	860.032319	484.787895	554.606694
1219	0.0841	41.1100		0.1421	860.442553	485.024853	554.925354
1220	0.0841	41.1100		0.1421	860.852752	485.261945	555.244147
1221	0.0841	41.1100		0.1421	861.262913	485.499169	555.563073
1222	0.0842	41.1100		0.1421	861.673039	485.736527	555.882131
1223	0.0842	41.1100		0.1421	862.083129	485.974017	556.201322
1224	0.0842	41.1100		0.1422	862.493183	486.211641	556.520645
1225	0.0842	41.1100		0.1422	862.9032	486.449397	556.840101

Attachment 7

	AC	AD	AE	AF	AG	AH	
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21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1226	0.0842	41.1100		0.1422	863.313182	486.687286	557.159688
1227	0.0842	41.1100		0.1422	863.723127	486.925308	557.479408
1228	0.0842	41.1100		0.1422	864.133037	487.163462	557.799259
1229	0.0842	41.1100		0.1422	864.54291	487.401749	558.119242
1230	0.0842	41.1100		0.1423	864.952748	487.640168	558.439357
1231	0.0842	41.1100		0.1423	865.36255	487.878719	558.759603
1232	0.0842	41.1100		0.1423	865.772315	488.117403	559.079979
1233	0.0843	41.1100		0.1423	866.182045	488.356219	559.400487
1234	0.0843	41.1100		0.1423	866.591739	488.595167	559.721126
1235	0.0843	41.1100		0.1423	867.001397	488.834246	560.041896
1236	0.0843	41.1100		0.1423	867.411019	489.073458	560.362796
1237	0.0843	41.1100		0.1424	867.820605	489.312802	560.683826
1238	0.0843	41.1100		0.1424	868.230155	489.552277	561.004987
1239	0.0843	41.1100		0.1424	868.63967	489.791884	561.326278
1240	0.0843	41.1100		0.1424	869.049148	490.031623	561.647698
1241	0.0843	41.1100		0.1424	869.458591	490.271493	561.969249
1242	0.0843	41.1100		0.1424	869.867999	490.511495	562.290929
1243	0.0844	41.1100		0.1425	870.27737	490.751628	562.612738
1244	0.0844	41.1100		0.1425	870.686706	490.991892	562.934677
1245	0.0844	41.1100		0.1425	871.096006	491.232287	563.256746
1246	0.0844	41.1100		0.1425	871.50527	491.472814	563.578943
1247	0.0844	41.1100		0.1425	871.914499	491.713471	563.901269
1248	0.0844	41.1100		0.1425	872.323691	491.954259	564.223723
1249	0.0844	41.1100		0.1426	872.732849	492.195179	564.546307
1250	0.0844	41.1100		0.1426	873.14197	492.436229	564.869019
1251	0.0844	41.1100		0.1426	873.551056	492.677409	565.191859
1252	0.0844	41.1100		0.1426	873.960107	492.918721	565.514827
1253	0.0845	41.1100		0.1426	874.369122	493.160163	565.837923
1254	0.0845	41.1100		0.1426	874.778101	493.401735	566.161147
1255	0.0845	41.1100		0.1426	875.187045	493.643438	566.484498
1256	0.0845	41.1100		0.1427	875.595953	493.885271	566.807978
1257	0.0845	41.1100		0.1427	876.004826	494.127234	567.131584
1258	0.0845	41.1100		0.1427	876.413663	494.369327	567.455318
1259	0.0845	41.1100		0.1427	876.822465	494.61155	567.779179
1260	0.0845	41.1100		0.1427	877.231231	494.853904	568.103166
1261	0.0845	41.1100		0.1427	877.639962	495.096387	568.427281
1262	0.0845	41.1100		0.1428	878.048657	495.339	568.751522
1263	0.0845	41.1100		0.1428	878.457317	495.581743	569.075889
1264	0.0846	41.1100		0.1428	878.865942	495.824615	569.400383
1265	0.0846	41.1100		0.1428	879.274531	496.067617	569.725003
1266	0.0846	41.1100		0.1428	879.683085	496.310748	570.049749

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1267	0.0846	41.1100		0.1428	880.091604	496.554009	570.374621
1268	0.0846	41.1100		0.1428	880.500087	496.797399	570.699619
1269	0.0846	41.1100		0.1429	880.908535	497.040918	571.024742
1270	0.0846	41.1100		0.1429	881.316947	497.284567	571.349991
1271	0.0846	41.1100		0.1429	881.725325	497.528344	571.675365
1272	0.0846	41.1100		0.1429	882.133667	497.772251	572.000864
1273	0.0846	41.1100		0.1429	882.541974	498.016286	572.326488
1274	0.0847	41.1100		0.1429	882.950245	498.260451	572.652237
1275	0.0847	41.1100		0.1430	883.358482	498.504744	572.97811
1276	0.0847	41.1100		0.1430	883.766683	498.749165	573.304108
1277	0.0847	41.1100		0.1430	884.174849	498.993716	573.630231
1278	0.0847	41.1100		0.1430	884.58298	499.238394	573.956478
1279	0.0847	41.1100		0.1430	884.991076	499.483202	574.282848
1280	0.0847	41.1100		0.1430	885.399136	499.728137	574.609343
1281	0.0847	41.1100		0.1430	885.807162	499.973201	574.935962
1282	0.0847	41.1100		0.1431	886.215152	500.218393	575.262704
1283	0.0847	41.1100		0.1431	886.623108	500.463713	575.58957
1284	0.0848	41.1100		0.1431	887.031028	500.709161	575.916559
1285	0.0848	41.1100		0.1431	887.438913	500.954737	576.243671
1286	0.0848	41.1100		0.1431	887.846764	501.200441	576.570906
1287	0.0848	41.1100		0.1431	888.254579	501.446273	576.898265
1288	0.0848	41.1100		0.1432	888.662359	501.692232	577.225746
1289	0.0848	41.1100		0.1432	889.070104	501.938319	577.553349
1290	0.0848	41.1100		0.1432	889.477815	502.184534	577.881075
1291	0.0848	41.1100		0.1432	889.88549	502.430876	578.208924
1292	0.0848	41.1100		0.1432	890.293131	502.677346	578.536894
1293	0.0848	41.1100		0.1432	890.700736	502.923942	578.864987
1294	0.0848	41.1100		0.1432	891.108307	503.170666	579.193202
1295	0.0849	41.1100		0.1433	891.515843	503.417517	579.521538
1296	0.0849	41.1100		0.1433	891.923344	503.664495	579.849996
1297	0.0849	41.1100		0.1433	892.33081	503.911601	580.178575
1298	0.0849	41.1100		0.1433	892.738241	504.158833	580.507276
1299	0.0849	41.1100		0.1433	893.145638	504.406192	580.836097
1300	0.0849	41.1100		0.1433	893.552999	504.653677	581.16504
1301	0.0849	41.1100		0.1434	893.960326	504.901289	581.494104
1302	0.0849	41.1100		0.1434	894.367619	505.149028	581.823288
1303	0.0849	41.1100		0.1434	894.774876	505.396894	582.152593
1304	0.0849	41.1100		0.1434	895.182099	505.644885	582.482019
1305	0.0850	41.1100		0.1434	895.589287	505.893003	582.811564
1306	0.0850	41.1100		0.1434	895.99644	506.141248	583.14123
1307	0.0850	41.1100		0.1434	896.403559	506.389618	583.471016

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1308	0.0850	41.1100	0.1435	896.810643	506.638115	583.800922
1309	0.0850	41.1100	0.1435	897.217692	506.886738	584.130947
1310	0.0850	41.1100	0.1435	897.624707	507.135486	584.461092
1311	0.0850	41.1100	0.1435	898.031687	507.384361	584.791357
1312	0.0850	41.1100	0.1435	898.438632	507.633361	585.121741
1313	0.0850	41.1100	0.1435	898.845543	507.882487	585.452243
1314	0.0850	41.1100	0.1436	899.25242	508.131739	585.782865
1315	0.0850	41.1100	0.1436	899.659262	508.381116	586.113606
1316	0.0851	41.1100	0.1436	900.066069	508.630618	586.444465
1317	0.0851	41.1100	0.1436	900.472842	508.880246	586.775443
1318	0.0851	41.1100	0.1436	900.87958	509.129999	587.10654
1319	0.0851	41.1100	0.1436	901.286284	509.379878	587.437754
1320	0.0851	41.1100	0.1436	901.692953	509.629881	587.769087
1321	0.0851	41.1100	0.1437	902.099588	509.88001	588.100538
1322	0.0851	41.1100	0.1437	902.506189	510.130264	588.432107
1323	0.0851	41.1100	0.1437	902.912755	510.380642	588.763793
1324	0.0851	41.1100	0.1437	903.319287	510.631146	589.095597
1325	0.0851	41.1100	0.1437	903.725784	510.881774	589.427518
1326	0.0852	41.1100	0.1437	904.132247	511.132527	589.759557
1327	0.0852	41.1100	0.1437	904.538675	511.383404	590.091713
1328	0.0852	41.1100	0.1438	904.94507	511.634406	590.423985
1329	0.0852	41.1100	0.1438	905.35143	511.885532	590.756375
1330	0.0852	41.1100	0.1438	905.757755	512.136783	591.088881
1331	0.0852	41.1100	0.1438	906.164047	512.388158	591.421504
1332	0.0852	41.1100	0.1438	906.570304	512.639657	591.754244
1333	0.0852	41.1100	0.1438	906.976526	512.89128	592.087099
1334	0.0852	41.1100	0.1439	907.382715	513.143028	592.420071
1335	0.0852	41.1100	0.1439	907.788869	513.394899	592.753159
1336	0.0852	41.1100	0.1439	908.19499	513.646894	593.086362
1337	0.0853	41.1100	0.1439	908.601076	513.899013	593.419682
1338	0.0853	41.1100	0.1439	909.007127	514.151255	593.753117
1339	0.0853	41.1100	0.1439	909.413145	514.403622	594.086667
1340	0.0853	41.1100	0.1439	909.819129	514.656112	594.420333
1341	0.0853	41.1100	0.1440	910.225078	514.908725	594.754114
1342	0.0853	41.1100	0.1440	910.630993	515.161461	595.08801
1343	0.0853	41.1100	0.1440	911.036875	515.414321	595.42202
1344	0.0853	41.1100	0.1440	911.442722	515.667305	595.756146
1345	0.0853	41.1100	0.1440	911.848535	515.920411	596.090386
1346	0.0853	41.1100	0.1440	912.254314	516.173641	596.424741
1347	0.0854	41.1100	0.1440	912.660059	516.426993	596.75921
1348	0.0854	41.1100	0.1441	913.06577	516.680468	597.093793

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K
1349	0.0854	41.1100	0.1441	913.471447	516.934067	597.42849
1350	0.0854	41.1100	0.1441	913.87709	517.187788	597.763301
1351	0.0854	41.1100	0.1441	914.282699	517.441631	598.098226
1352	0.0854	41.1100	0.1441	914.688274	517.695598	598.433264
1353	0.0854	41.1100	0.1441	915.093815	517.949686	598.768416
1354	0.0854	41.1100	0.1442	915.499322	518.203898	599.103681
1355	0.0854	41.1100	0.1442	915.904795	518.458231	599.43906
1356	0.0854	41.1100	0.1442	916.310235	518.712687	599.774551
1357	0.0855	41.1100	0.1442	916.71564	518.967265	600.110156
1358	0.0855	41.1100	0.1442	917.121012	519.221966	600.445873
1359	0.0855	41.1100	0.1442	917.52635	519.476788	600.781703
1360	0.0855	41.1100	0.1442	917.931654	519.731732	601.117645
1361	0.0855	41.1100	0.1443	918.336924	519.986799	601.4537
1362	0.0855	41.1100	0.1443	918.742161	520.241987	601.789867
1363	0.0855	41.1100	0.1443	919.147363	520.497297	602.126146
1364	0.0855	41.1100	0.1443	919.552532	520.752728	602.462538
1365	0.0855	41.1100	0.1443	919.957667	521.008281	602.799041
1366	0.0855	41.1100	0.1443	920.362769	521.263956	603.135655
1367	0.0855	41.1100	0.1443	920.767836	521.519752	603.472381
1368	0.0856	41.1100	0.1444	921.17287	521.775669	603.809219
1369	0.0856	41.1100	0.1444	921.577871	522.031707	604.146168
1370	0.0856	41.1100	0.1444	921.982837	522.287867	604.483228
1371	0.0856	41.1100	0.1444	922.38777	522.544148	604.820399
1372	0.0856	41.1100	0.1444	922.79267	522.80055	605.157681
1373	0.0856	41.1100	0.1444	923.197535	523.057073	605.495074
1374	0.0856	41.1100	0.1444	923.602368	523.313717	605.832577
1375	0.0856	41.1100	0.1445	924.007166	523.570481	606.170191
1376	0.0856	41.1100	0.1445	924.411931	523.827367	606.507915
1377	0.0856	41.1100	0.1445	924.816662	524.084373	606.845749
1378	0.0857	41.1100	0.1445	925.22136	524.341499	607.183693
1379	0.0857	41.1100	0.1445	925.626025	524.598746	607.521748
1380	0.0857	41.1100	0.1445	926.030655	524.856113	607.859912
1381	0.0857	41.1100	0.1446	926.435253	525.113601	608.198185
1382	0.0857	41.1100	0.1446	926.839817	525.371209	608.536568
1383	0.0857	41.1100	0.1446	927.244347	525.628937	608.875061
1384	0.0857	41.1100	0.1446	927.648844	525.886786	609.213663
1385	0.0857	41.1100	0.1446	928.053307	526.144754	609.552374
1386	0.0857	41.1100	0.1446	928.457737	526.402842	609.891193
1387	0.0857	41.1100	0.1446	928.862134	526.66105	610.230122
1388	0.0857	41.1100	0.1447	929.266497	526.919378	610.56916
1389	0.0858	41.1100	0.1447	929.670827	527.177826	610.908306

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1390	0.0858	41.1100		0.1447	930.075124	527.436393	611.24756
1391	0.0858	41.1100		0.1447	930.479387	527.69508	611.586923
1392	0.0858	41.1100		0.1447	930.883617	527.953886	611.926393
1393	0.0858	41.1100		0.1447	931.287813	528.212812	612.265972
1394	0.0858	41.1100		0.1447	931.691976	528.471857	612.605659
1395	0.0858	41.1100		0.1448	932.096106	528.731021	612.945454
1396	0.0858	41.1100		0.1448	932.500203	528.990304	613.285356
1397	0.0858	41.1100		0.1448	932.904266	529.249707	613.625366
1398	0.0858	41.1100		0.1448	933.308297	529.509228	613.965483
1399	0.0859	41.1100		0.1448	933.712293	529.768869	614.305707
1400	0.0859	41.1100		0.1448	934.116257	530.028628	614.646038
1401	0.0859	41.1100		0.1448	934.520188	530.288506	614.986476
1402	0.0859	41.1100		0.1449	934.924085	530.548503	615.327022
1403	0.0859	41.1100		0.1449	935.327949	530.808618	615.667673
1404	0.0859	41.1100		0.1449	935.73178	531.068852	616.008432
1405	0.0859	41.1100		0.1449	936.135578	531.329204	616.349297
1406	0.0859	41.1100		0.1449	936.539343	531.589675	616.690268
1407	0.0859	41.1100		0.1449	936.943075	531.850264	617.031345
1408	0.0859	41.1100		0.1449	937.346773	532.110971	617.372528
1409	0.0859	41.1100		0.1450	937.750439	532.371797	617.713818
1410	0.0860	41.1100		0.1450	938.154071	532.63274	618.055213
1411	0.0860	41.1100		0.1450	938.557671	532.893802	618.396713
1412	0.0860	41.1100		0.1450	938.961237	533.154981	618.738319
1413	0.0860	41.1100		0.1450	939.364771	533.416278	619.080031
1414	0.0860	41.1100		0.1450	939.768271	533.677694	619.421848
1415	0.0860	41.1100		0.1450	940.171738	533.939226	619.76377
1416	0.0860	41.1100		0.1451	940.575173	534.200877	620.105796
1417	0.0860	41.1100		0.1451	940.978574	534.462645	620.447928
1418	0.0860	41.1100		0.1451	941.381943	534.72453	620.790165
1419	0.0860	41.1100		0.1451	941.785278	534.986533	621.132506
1420	0.0861	41.1100		0.1451	942.188581	535.248653	621.474951
1421	0.0861	41.1100		0.1451	942.591851	535.51089	621.817501
1422	0.0861	41.1100		0.1451	942.995088	535.773244	622.160155
1423	0.0861	41.1100		0.1452	943.398292	536.035716	622.502913
1424	0.0861	41.1100		0.1452	943.801463	536.298304	622.845775
1425	0.0861	41.1100		0.1452	944.204602	536.56101	623.188741
1426	0.0861	41.1100		0.1452	944.607707	536.823832	623.53181
1427	0.0861	41.1100		0.1452	945.01078	537.086771	623.874983
1428	0.0861	41.1100		0.1452	945.41382	537.349827	624.218259
1429	0.0861	41.1100		0.1452	945.816827	537.612999	624.561639
1430	0.0861	41.1100		0.1453	946.219801	537.876288	624.905122

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1431	0.0862	41.1100	0.1453	946.622743	538.139694	625.248708
1432	0.0862	41.1100	0.1453	947.025652	538.403215	625.592397
1433	0.0862	41.1100	0.1453	947.428528	538.666853	625.936188
1434	0.0862	41.1100	0.1453	947.831372	538.930608	626.280082
1435	0.0862	41.1100	0.1453	948.234182	539.194478	626.624079
1436	0.0862	41.1100	0.1453	948.636961	539.458465	626.968178
1437	0.0862	41.1100	0.1454	949.039706	539.722567	627.312379
1438	0.0862	41.1100	0.1454	949.442419	539.986785	627.656683
1439	0.0862	41.1100	0.1454	949.845099	540.25112	628.001088
1440	0.0862	41.1100	0.1454	950.247747	540.51557	628.345596
1441	0.0863	41.1100	0.1454	950.650362	540.780136	628.690205
1442	0.0863	41.1100	0.1454	951.052944	541.044817	629.034915
1443	0.0863	41.1100	0.1454	951.455494	541.309614	629.379727
1444	0.0863	41.1100	0.1455	951.858011	541.574526	629.724641
1445	0.0863	41.1100	0.1455	952.260496	541.839554	630.069656
1446	0.0863	41.1100	0.1455	952.662948	542.104697	630.414771
1447	0.0863	41.1100	0.1455	953.065368	542.369955	630.759988
1448	0.0863	41.1100	0.1455	953.467755	542.635329	631.105306
1449	0.0863	41.1100	0.1455	953.87011	542.900817	631.450724
1450	0.0863	41.1100	0.1455	954.272432	543.166421	631.796243
1451	0.0863	41.1100	0.1456	954.674722	543.432139	632.141862
1452	0.0864	41.1100	0.1456	955.076979	543.697973	632.487582
1453	0.0864	41.1100	0.1456	955.479204	543.963921	632.833402
1454	0.0864	41.1100	0.1456	955.881396	544.229984	633.179322
1455	0.0864	41.1100	0.1456	956.283557	544.496161	633.525342
1456	0.0864	41.1100	0.1456	956.685684	544.762453	633.871462
1457	0.0864	41.1100	0.1456	957.08778	545.028859	634.217681
1458	0.0864	41.1100	0.1457	957.489843	545.29538	634.564
1459	0.0864	41.1100	0.1457	957.891873	545.562016	634.910419
1460	0.0864	41.1100	0.1457	958.293871	545.828765	635.256937
1461	0.0864	41.1100	0.1457	958.695837	546.095629	635.603554
1462	0.0864	41.1100	0.1457	959.097771	546.362606	635.95027
1463	0.0865	41.1100	0.1457	959.499673	546.629698	636.297085
1464	0.0865	41.1100	0.1457	959.901542	546.896904	636.643999
1465	0.0865	41.1100	0.1458	960.303379	547.164223	636.991012
1466	0.0865	41.1100	0.1458	960.705183	547.431656	637.338123
1467	0.0865	41.1100	0.1458	961.106956	547.699203	637.685332
1468	0.0865	41.1100	0.1458	961.508696	547.966864	638.03264
1469	0.0865	41.1100	0.1458	961.910404	548.234638	638.380047
1470	0.0865	41.1100	0.1458	962.31208	548.502526	638.727551
1471	0.0865	41.1100	0.1458	962.713723	548.770527	639.075153

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K	
1472	0.0865	41.1100		0.1459	963.115335	549.038642	639.422853
1473	0.0866	41.1100		0.1459	963.516914	549.306869	639.770651
1474	0.0866	41.1100		0.1459	963.918461	549.57521	640.118546
1475	0.0866	41.1100		0.1459	964.319976	549.843664	640.466542
1476	0.0866	41.1100		0.1459	964.721459	550.112231	640.814643
1477	0.0866	41.1100		0.1459	965.12291	550.380911	641.16285
1478	0.0866	41.1100		0.1459	965.524329	550.649704	641.511162
1479	0.0866	41.1100		0.1460	965.925716	550.91861	641.85958
1480	0.0866	41.1100		0.1460	966.32707	551.187628	642.208103
1481	0.0866	41.1100		0.1460	966.728393	551.45676	642.556732
1482	0.0866	41.1100		0.1460	967.129684	551.726003	642.905465
1483	0.0866	41.1100		0.1460	967.530942	551.995359	643.254303
1484	0.0867	41.1100		0.1460	967.932169	552.264828	643.603246
1485	0.0867	41.1100		0.1460	968.333364	552.534409	643.952294
1486	0.0867	41.1100		0.1461	968.734526	552.804102	644.301446
1487	0.0867	41.1100		0.1461	969.135657	553.073908	644.650702
1488	0.0867	41.1100		0.1461	969.536756	553.343825	645.000063
1489	0.0867	41.1100		0.1461	969.937823	553.613855	645.349528
1490	0.0867	41.1100		0.1461	970.338858	553.883997	645.699096
1491	0.0867	41.1100		0.1461	970.739861	554.15425	646.048769
1492	0.0867	41.1100		0.1461	971.140833	554.424615	646.398545
1493	0.0867	41.1100		0.1462	971.541772	554.695093	646.748426
1494	0.0868	41.1100		0.1462	971.94268	554.965681	647.098409
1495	0.0868	41.1100		0.1462	972.343555	555.236382	647.448496
1496	0.0868	41.1100		0.1462	972.744399	555.507194	647.798686
1497	0.0868	41.1100		0.1462	973.145211	555.778117	648.14898
1498	0.0868	41.1100		0.1462	973.545992	556.049152	648.499376
1499	0.0868	41.1100		0.1462	973.94674	556.320298	648.849875
1500	0.0868	41.1100		0.1463	974.347457	556.591555	649.200477
1501	0.0868	41.1100		0.1463	974.748142	556.862924	649.551182
1502	0.0868	41.1100		0.1463	975.148795	557.134403	649.901989
1503	0.0868	41.1100		0.1463	975.549417	557.405994	650.252899
1504	0.0868	41.1100		0.1463	975.950007	557.677695	650.60391
1505	0.0869	41.1100		0.1463	976.350565	557.949508	650.955024
1506	0.0869	41.1100		0.1463	976.751091	558.221431	651.30624
1507	0.0869	41.1100		0.1464	977.151586	558.493465	651.657558
1508	0.0869	41.1100		0.1464	977.552049	558.765609	652.008978
1509	0.0869	41.1100		0.1464	977.952481	559.037864	652.360499
1510	0.0869	41.1100		0.1464	978.352881	559.31023	652.712122
1511	0.0869	41.1100		0.1464	978.753249	559.582706	653.063846
1512	0.0869	41.1100		0.1464	979.153586	559.855292	653.415672

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1513	0.0869	41.1100		0.1464	979.553891	560.127988	653.767598
1514	0.0869	41.1100		0.1464	979.954164	560.400795	654.119626
1515	0.0869	41.1100		0.1465	980.354406	560.673712	654.471755
1516	0.0870	41.1100		0.1465	980.754617	560.946739	654.823984
1517	0.0870	41.1100		0.1465	981.154796	561.219875	655.176314
1518	0.0870	41.1100		0.1465	981.554943	561.493122	655.528745
1519	0.0870	41.1100		0.1465	981.955059	561.766479	655.881276
1520	0.0870	41.1100		0.1465	982.355144	562.039945	656.233907
1521	0.0870	41.1100		0.1465	982.755196	562.313521	656.586639
1522	0.0870	41.1100		0.1466	983.155218	562.587206	656.93947
1523	0.0870	41.1100		0.1466	983.555208	562.861001	657.292402
1524	0.0870	41.1100		0.1466	983.955167	563.134906	657.645433
1525	0.0870	41.1100		0.1466	984.355094	563.40892	657.998564
1526	0.0871	41.1100		0.1466	984.75499	563.683043	658.351795
1527	0.0871	41.1100		0.1466	985.154854	563.957275	658.705125
1528	0.0871	41.1100		0.1466	985.554687	564.231617	659.058555
1529	0.0871	41.1100		0.1467	985.954488	564.506068	659.412083
1530	0.0871	41.1100		0.1467	986.354259	564.780627	659.765711
1531	0.0871	41.1100		0.1467	986.753998	565.055296	660.119438
1532	0.0871	41.1100		0.1467	987.153705	565.330073	660.473264
1533	0.0871	41.1100		0.1467	987.553382	565.604959	660.827188
1534	0.0871	41.1100		0.1467	987.953027	565.879954	661.181211
1535	0.0871	41.1100		0.1467	988.35264	566.155058	661.535332
1536	0.0871	41.1100		0.1468	988.752223	566.43027	661.889552
1537	0.0872	41.1100		0.1468	989.151774	566.70559	662.24387
1538	0.0872	41.1100		0.1468	989.551294	566.981019	662.598286
1539	0.0872	41.1100		0.1468	989.950783	567.256557	662.952801
1540	0.0872	41.1100		0.1468	990.35024	567.532202	663.307413
1541	0.0872	41.1100		0.1468	990.749666	567.807956	663.662123
1542	0.0872	41.1100		0.1468	991.149061	568.083818	664.01693
1543	0.0872	41.1100		0.1469	991.548425	568.359788	664.371836
1544	0.0872	41.1100		0.1469	991.947758	568.635866	664.726838
1545	0.0872	41.1100		0.1469	992.34706	568.912051	665.081938
1546	0.0872	41.1100		0.1469	992.74633	569.188345	665.437135
1547	0.0873	41.1100		0.1469	993.145569	569.464746	665.792429
1548	0.0873	41.1100		0.1469	993.544778	569.741255	666.14782
1549	0.0873	41.1100		0.1469	993.943955	570.017872	666.503308
1550	0.0873	41.1100		0.1469	994.343101	570.294596	666.858893
1551	0.0873	41.1100		0.1470	994.742216	570.571428	667.214574
1552	0.0873	41.1100		0.1470	995.1413	570.848367	667.570352
1553	0.0873	41.1100		0.1470	995.540353	571.125413	667.926226

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1554	0.0873	41.1100		0.1470	995.939374	571.402567	668.282196
1555	0.0873	41.1100		0.1470	996.338365	571.679827	668.638262
1556	0.0873	41.1100		0.1470	996.737325	571.957195	668.994425
1557	0.0873	41.1100		0.1470	997.136254	572.23467	669.350683
1558	0.0874	41.1100		0.1471	997.535152	572.512252	669.707037
1559	0.0874	41.1100		0.1471	997.934019	572.78994	670.063487
1560	0.0874	41.1100		0.1471	998.332854	573.067736	670.420032
1561	0.0874	41.1100		0.1471	998.731659	573.345638	670.776672
1562	0.0874	41.1100		0.1471	999.130433	573.623647	671.133408
1563	0.0874	41.1100		0.1471	999.529177	573.901762	671.490239
1564	0.0874	41.1100		0.1471	999.927889	574.179984	671.847166
1565	0.0874	41.1100		0.1472	1000.32657	574.458313	672.204187
1566	0.0874	41.1100		0.1472	1000.72522	574.736747	672.561303
1567	0.0874	41.1100		0.1472	1001.12384	575.015288	672.918513
1568	0.0874	41.1100		0.1472	1001.52243	575.293936	673.275819
1569	0.0875	41.1100		0.1472	1001.92099	575.572689	673.633219
1570	0.0875	41.1100		0.1472	1002.31951	575.851548	673.990713
1571	0.0875	41.1100		0.1472	1002.71801	576.130514	674.348301
1572	0.0875	41.1100		0.1472	1003.11648	576.409585	674.705984
1573	0.0875	41.1100		0.1473	1003.51491	576.688762	675.06376
1574	0.0875	41.1100		0.1473	1003.91331	576.968045	675.421631
1575	0.0875	41.1100		0.1473	1004.31169	577.247434	675.779595
1576	0.0875	41.1100		0.1473	1004.71003	577.526929	676.137653
1577	0.0875	41.1100		0.1473	1005.10834	577.806528	676.495804
1578	0.0875	41.1100		0.1473	1005.50662	578.086234	676.854049
1579	0.0876	41.1100		0.1473	1005.90487	578.366045	677.212387
1580	0.0876	41.1100		0.1474	1006.30309	578.645961	677.570819
1581	0.0876	41.1100		0.1474	1006.70128	578.925982	677.929343
1582	0.0876	41.1100		0.1474	1007.09944	579.206109	678.287961
1583	0.0876	41.1100		0.1474	1007.49757	579.486341	678.646671
1584	0.0876	41.1100		0.1474	1007.89566	579.766678	679.005475
1585	0.0876	41.1100		0.1474	1008.29373	580.04712	679.36437
1586	0.0876	41.1100		0.1474	1008.69177	580.327666	679.723359
1587	0.0876	41.1100		0.1474	1009.08977	580.608318	680.08244
1588	0.0876	41.1100		0.1475	1009.48775	580.889074	680.441613
1589	0.0876	41.1100		0.1475	1009.88569	581.169935	680.800878
1590	0.0877	41.1100		0.1475	1010.2836	581.450901	681.160235
1591	0.0877	41.1100		0.1475	1010.68149	581.731971	681.519684
1592	0.0877	41.1100		0.1475	1011.07934	582.013146	681.879226
1593	0.0877	41.1100		0.1475	1011.47716	582.294425	682.238858
1594	0.0877	41.1100		0.1475	1011.87495	582.575809	682.598583

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1595	0.0877	41.1100		0.1476	1012.27271	582.857296	682.958399
1596	0.0877	41.1100		0.1476	1012.67044	583.138888	683.318306
1597	0.0877	41.1100		0.1476	1013.06814	583.420584	683.678305
1598	0.0877	41.1100		0.1476	1013.46581	583.702385	684.038395
1599	0.0877	41.1100		0.1476	1013.86345	583.984289	684.398576
1600	0.0877	41.1100		0.1476	1014.26106	584.266297	684.758847
1601	0.0878	41.1100		0.1476	1014.65864	584.548409	685.11921
1602	0.0878	41.1100		0.1477	1015.05618	584.830624	685.479663
1603	0.0878	41.1100		0.1477	1015.4537	585.112944	685.840207
1604	0.0878	41.1100		0.1477	1015.85119	585.395367	686.200842
1605	0.0878	41.1100		0.1477	1016.24864	585.677893	686.561566
1606	0.0878	41.1100		0.1477	1016.64607	585.960523	686.922382
1607	0.0878	41.1100		0.1477	1017.04346	586.243256	687.283287
1608	0.0878	41.1100		0.1477	1017.44083	586.526093	687.644282
1609	0.0878	41.1100		0.1477	1017.83816	586.809033	688.005367
1610	0.0878	41.1100		0.1478	1018.23547	587.092076	688.366542
1611	0.0878	41.1100		0.1478	1018.63274	587.375223	688.727807
1612	0.0879	41.1100		0.1478	1019.02999	587.658472	689.089161
1613	0.0879	41.1100		0.1478	1019.4272	587.941824	689.450605
1614	0.0879	41.1100		0.1478	1019.82439	588.22528	689.812138
1615	0.0879	41.1100		0.1478	1020.22154	588.508838	690.173761
1616	0.0879	41.1100		0.1478	1020.61866	588.792499	690.535472
1617	0.0879	41.1100		0.1479	1021.01575	589.076262	690.897273
1618	0.0879	41.1100		0.1479	1021.41282	589.360128	691.259162
1619	0.0879	41.1100		0.1479	1021.80985	589.644097	691.621141
1620	0.0879	41.1100		0.1479	1022.20685	589.928168	691.983208
1621	0.0879	41.1100		0.1479	1022.60382	590.212342	692.345364
1622	0.0880	41.1100		0.1479	1023.00077	590.496618	692.707608
1623	0.0880	41.1100		0.1479	1023.39768	590.780996	693.06994
1624	0.0880	41.1100		0.1479	1023.79456	591.065477	693.432361
1625	0.0880	41.1100		0.1480	1024.19141	591.350059	693.79487
1626	0.0880	41.1100		0.1480	1024.58823	591.634744	694.157467
1627	0.0880	41.1100		0.1480	1024.98502	591.919531	694.520152
1628	0.0880	41.1100		0.1480	1025.38178	592.204419	694.882925
1629	0.0880	41.1100		0.1480	1025.77851	592.48941	695.245785
1630	0.0880	41.1100		0.1480	1026.17522	592.774502	695.608733
1631	0.0880	41.1100		0.1480	1026.57189	593.059696	695.971769
1632	0.0880	41.1100		0.1481	1026.96853	593.344991	696.334892
1633	0.0881	41.1100		0.1481	1027.36514	593.630389	696.698102
1634	0.0881	41.1100		0.1481	1027.76172	593.915887	697.0614
1635	0.0881	41.1100		0.1481	1028.15827	594.201487	697.424784

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1636	0.0881	41.1100	0.1481	1028.55479	594.487189	697.788256
1637	0.0881	41.1100	0.1481	1028.95128	594.772991	698.151814
1638	0.0881	41.1100	0.1481	1029.34774	595.058895	698.515459
1639	0.0881	41.1100	0.1481	1029.74417	595.3449	698.879191
1640	0.0881	41.1100	0.1482	1030.14057	595.631006	699.243009
1641	0.0881	41.1100	0.1482	1030.53694	595.917213	699.606914
1642	0.0881	41.1100	0.1482	1030.93329	596.203521	699.970905
1643	0.0881	41.1100	0.1482	1031.3296	596.48993	700.334982
1644	0.0882	41.1100	0.1482	1031.72588	596.77644	700.699145
1645	0.0882	41.1100	0.1482	1032.12213	597.06305	701.063394
1646	0.0882	41.1100	0.1482	1032.51835	597.349762	701.427729
1647	0.0882	41.1100	0.1482	1032.91454	597.636573	701.79215
1648	0.0882	41.1100	0.1483	1033.3107	597.923485	702.156657
1649	0.0882	41.1100	0.1483	1033.70684	598.210498	702.521249
1650	0.0882	41.1100	0.1483	1034.10294	598.497611	702.885926
1651	0.0882	41.1100	0.1483	1034.49901	598.784824	703.250689
1652	0.0882	41.1100	0.1483	1034.89505	599.072138	703.615537
1653	0.0882	41.1100	0.1483	1035.29106	599.359552	703.980471
1654	0.0883	41.1100	0.1483	1035.68705	599.647065	704.345489
1655	0.0883	41.1100	0.1484	1036.083	599.934679	704.710592
1656	0.0883	41.1100	0.1484	1036.47892	600.222393	705.07578
1657	0.0883	41.1100	0.1484	1036.87482	600.510207	705.441053
1658	0.0883	41.1100	0.1484	1037.27068	600.79812	705.80641
1659	0.0883	41.1100	0.1484	1037.66652	601.086133	706.171852
1660	0.0883	41.1100	0.1484	1038.06232	601.374246	706.537378
1661	0.0883	41.1100	0.1484	1038.45809	601.662459	706.902988
1662	0.0883	41.1100	0.1484	1038.85384	601.950771	707.268683
1663	0.0883	41.1100	0.1485	1039.24956	602.239182	707.634461
1664	0.0883	41.1100	0.1485	1039.64524	602.527693	708.000324
1665	0.0884	41.1100	0.1485	1040.0409	602.816304	708.36627
1666	0.0884	41.1100	0.1485	1040.43652	603.105013	708.7323
1667	0.0884	41.1100	0.1485	1040.83212	603.393822	709.098414
1668	0.0884	41.1100	0.1485	1041.22769	603.68273	709.464612
1669	0.0884	41.1100	0.1485	1041.62323	603.971736	709.830892
1670	0.0884	41.1100	0.1485	1042.01873	604.260842	710.197257
1671	0.0884	41.1100	0.1486	1042.41421	604.550047	710.563704
1672	0.0884	41.1100	0.1486	1042.80966	604.839351	710.930234
1673	0.0884	41.1100	0.1486	1043.20508	605.128753	711.296848
1674	0.0884	41.1100	0.1486	1043.60047	605.418254	711.663544
1675	0.0884	41.1100	0.1486	1043.99583	605.707854	712.030323
1676	0.0885	41.1100	0.1486	1044.39116	605.997552	712.397185

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbn	BTU/lb-F	K	K	K	
1677	0.0885	41.1100		0.1486	1044.78646	606.287349	712.76413
1678	0.0885	41.1100		0.1487	1045.18173	606.577244	713.131157
1679	0.0885	41.1100		0.1487	1045.57698	606.867238	713.498266
1680	0.0885	41.1100		0.1487	1045.97219	607.15733	713.865458
1681	0.0885	41.1100		0.1487	1046.36737	607.44752	714.232732
1682	0.0885	41.1100		0.1487	1046.76252	607.737809	714.600088
1683	0.0885	41.1100		0.1487	1047.15765	608.028195	714.967526
1684	0.0885	41.1100		0.1487	1047.55274	608.318679	715.335045
1685	0.0885	41.1100		0.1487	1047.94781	608.609262	715.702647
1686	0.0885	41.1100		0.1488	1048.34285	608.899942	716.07033
1687	0.0886	41.1100		0.1488	1048.73785	609.19072	716.438095
1688	0.0886	41.1100		0.1488	1049.13283	609.481596	716.805941
1689	0.0886	41.1100		0.1488	1049.52778	609.772569	717.173869
1690	0.0886	41.1100		0.1488	1049.9227	610.06364	717.541877
1691	0.0886	41.1100		0.1488	1050.31759	610.354809	717.909967
1692	0.0886	41.1100		0.1488	1050.71245	610.646075	718.278138
1693	0.0886	41.1100		0.1488	1051.10728	610.937439	718.64639
1694	0.0886	41.1100		0.1489	1051.50208	611.2289	719.014723
1695	0.0886	41.1100		0.1489	1051.89685	611.520458	719.383137
1696	0.0886	41.1100		0.1489	1052.29159	611.812113	719.751631
1697	0.0886	41.1100		0.1489	1052.6863	612.103866	720.120206
1698	0.0887	41.1100		0.1489	1053.08099	612.395715	720.488861
1699	0.0887	41.1100		0.1489	1053.47564	612.687662	720.857596
1700	0.0887	41.1100		0.1489	1053.87027	612.979705	721.226412
1701	0.0887	41.1100		0.1490	1054.26487	613.271845	721.595308
1702	0.0887	41.1100		0.1490	1054.65943	613.564082	721.964284
1703	0.0887	41.1100		0.1490	1055.05397	613.856416	722.33334
1704	0.0887	41.1100		0.1490	1055.44848	614.148847	722.702475
1705	0.0887	41.1100		0.1490	1055.84296	614.441374	723.071691
1706	0.0887	41.1100		0.1490	1056.23741	614.733997	723.440986
1707	0.0887	41.1100		0.1490	1056.63183	615.026717	723.81036
1708	0.0888	41.1100		0.1490	1057.02622	615.319534	724.179814
1709	0.0888	41.1100		0.1491	1057.42058	615.612447	724.549347
1710	0.0888	41.1100		0.1491	1057.81492	615.905456	724.91896
1711	0.0888	41.1100		0.1491	1058.20922	616.198561	725.288651
1712	0.0888	41.1100		0.1491	1058.6035	616.491762	725.658422
1713	0.0888	41.1100		0.1491	1058.99774	616.785059	726.028272
1714	0.0888	41.1100		0.1491	1059.39196	617.078453	726.3982
1715	0.0888	41.1100		0.1491	1059.78615	617.371942	726.768207
1716	0.0888	41.1100		0.1491	1060.18031	617.665527	727.138293
1717	0.0888	41.1100		0.1492	1060.57444	617.959208	727.508457

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1718	0.0888	41.1100		0.1492	1060.96854	618.252985	727.8787
1719	0.0889	41.1100		0.1492	1061.36261	618.546857	728.249021
1720	0.0889	41.1100		0.1492	1061.75666	618.840825	728.61942
1721	0.0889	41.1100		0.1492	1062.15067	619.134888	728.989897
1722	0.0889	41.1100		0.1492	1062.54465	619.429047	729.360453
1723	0.0889	41.1100		0.1492	1062.93861	619.723301	729.731086
1724	0.0889	41.1100		0.1492	1063.33254	620.01765	730.101797
1725	0.0889	41.1100		0.1493	1063.72643	620.312095	730.472586
1726	0.0889	41.1100		0.1493	1064.1203	620.606635	730.843452
1727	0.0889	41.1100		0.1493	1064.51414	620.90127	731.214397
1728	0.0889	41.1100		0.1493	1064.90795	621.196	731.585418
1729	0.0889	41.1100		0.1493	1065.30174	621.490824	731.956517
1730	0.0890	41.1100		0.1493	1065.69549	621.785744	732.327693
1731	0.0890	41.1100		0.1493	1066.08921	622.080759	732.698946
1732	0.0890	41.1100		0.1493	1066.48291	622.375868	733.070276
1733	0.0890	41.1100		0.1494	1066.87658	622.671073	733.441683
1734	0.0890	41.1100		0.1494	1067.27021	622.966371	733.813167
1735	0.0890	41.1100		0.1494	1067.66382	623.261765	734.184728
1736	0.0890	41.1100		0.1494	1068.0574	623.557253	734.556365
1737	0.0890	41.1100		0.1494	1068.45095	623.852835	734.928079
1738	0.0890	41.1100		0.1494	1068.84448	624.148512	735.29987
1739	0.0890	41.1100		0.1494	1069.23797	624.444283	735.671736
1740	0.0890	41.1100		0.1495	1069.63143	624.740148	736.043679
1741	0.0891	41.1100		0.1495	1070.02487	625.036107	736.415699
1742	0.0891	41.1100		0.1495	1070.41828	625.332161	736.787794
1743	0.0891	41.1100		0.1495	1070.81166	625.628308	737.159965
1744	0.0891	41.1100		0.1495	1071.20501	625.92455	737.532212
1745	0.0891	41.1100		0.1495	1071.59833	626.220885	737.904535
1746	0.0891	41.1100		0.1495	1071.99162	626.517315	738.276934
1747	0.0891	41.1100		0.1495	1072.38488	626.813838	738.649408
1748	0.0891	41.1100		0.1496	1072.77812	627.110454	739.021957
1749	0.0891	41.1100		0.1496	1073.17132	627.407165	739.394582
1750	0.0891	41.1100		0.1496	1073.5645	627.703969	739.767283
1751	0.0891	41.1100		0.1496	1073.95765	628.000866	740.140058
1752	0.0892	41.1100		0.1496	1074.35077	628.297857	740.512909
1753	0.0892	41.1100		0.1496	1074.74386	628.594942	740.885834
1754	0.0892	41.1100		0.1496	1075.13692	628.892119	741.258835
1755	0.0892	41.1100		0.1496	1075.52996	629.18939	741.63191
1756	0.0892	41.1100		0.1497	1075.92296	629.486754	742.00506
1757	0.0892	41.1100		0.1497	1076.31594	629.784211	742.378285
1758	0.0892	41.1100		0.1497	1076.70889	630.081761	742.751584

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1759	0.0892	41.1100		0.1497	1077.1018	630.379405	743.124958
1760	0.0892	41.1100		0.1497	1077.4947	630.677141	743.498406
1761	0.0892	41.1100		0.1497	1077.88756	630.97497	743.871928
1762	0.0893	41.1100		0.1497	1078.28039	631.272891	744.245524
1763	0.0893	41.1100		0.1497	1078.6732	631.570906	744.619195
1764	0.0893	41.1100		0.1498	1079.06597	631.869013	744.992939
1765	0.0893	41.1100		0.1498	1079.45872	632.167213	745.366757
1766	0.0893	41.1100		0.1498	1079.85144	632.465505	745.740649
1767	0.0893	41.1100		0.1498	1080.24413	632.76389	746.114615
1768	0.0893	41.1100		0.1498	1080.63679	633.062367	746.488654
1769	0.0893	41.1100		0.1498	1081.02943	633.360936	746.862767
1770	0.0893	41.1100		0.1498	1081.42203	633.659598	747.236953
1771	0.0893	41.1100		0.1498	1081.81461	633.958352	747.611213
1772	0.0893	41.1100		0.1499	1082.20716	634.257198	747.985545
1773	0.0894	41.1100		0.1499	1082.59968	634.556136	748.359951
1774	0.0894	41.1100		0.1499	1082.99217	634.855166	748.73443
1775	0.0894	41.1100		0.1499	1083.38463	635.154288	749.108982
1776	0.0894	41.1100		0.1499	1083.77707	635.453502	749.483606
1777	0.0894	41.1100		0.1499	1084.16947	635.752807	749.858304
1778	0.0894	41.1100		0.1499	1084.56185	636.052205	750.233074
1779	0.0894	41.1100		0.1499	1084.9542	636.351694	750.607916
1780	0.0894	41.1100		0.1500	1085.34652	636.651275	750.982831
1781	0.0894	41.1100		0.1500	1085.73881	636.950947	751.357819
1782	0.0894	41.1100		0.1500	1086.13108	637.250711	751.732878
1783	0.0894	41.1100		0.1500	1086.52331	637.550566	752.10801
1784	0.0895	41.1100		0.1500	1086.91552	637.850512	752.483214
1785	0.0895	41.1100		0.1500	1087.3077	638.15055	752.85849
1786	0.0895	41.1100		0.1500	1087.69985	638.450679	753.233838
1787	0.0895	41.1100		0.1500	1088.09197	638.750899	753.609257
1788	0.0895	41.1100		0.1501	1088.48407	639.05121	753.984749
1789	0.0895	41.1100		0.1501	1088.87614	639.351613	754.360312
1790	0.0895	41.1100		0.1501	1089.26817	639.652106	754.735946
1791	0.0895	41.1100		0.1501	1089.66018	639.95269	755.111652
1792	0.0895	41.1100		0.1501	1090.05216	640.253365	755.48743
1793	0.0895	41.1100		0.1501	1090.44367	640.554136	755.863278
1794	0.0895	41.1100		0.1501	1090.83187	640.855004	756.239198
1795	0.0896	41.1100		0.1501	1091.21699	641.155966	756.615184
1796	0.0896	41.1100		0.1502	1091.59919	641.457021	756.991233
1797	0.0919	41.1100		0.1502	1091.97859	641.758166	757.367343
1798	0.0957	41.1100		0.1502	1092.35532	642.059399	757.743509
1799	0.0995	41.1100		0.1502	1092.72897	642.360719	758.11973

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1800	0.1032	41.1100	0.1502	1093.09947	642.662124	758.496
1801	0.1069	41.1100	0.1502	1093.46754	642.96361	758.872317
1802	0.1105	41.1100	0.1502	1093.83494	643.265178	759.248679
1803	0.1141	41.1100	0.1502	1094.20156	643.566826	759.625083
1804	0.1177	41.1100	0.1503	1094.56732	643.868553	760.001529
1805	0.1200	41.1100	0.1503	1094.93216	644.17036	760.378017
1806	0.1204	41.1100	0.1503	1095.29603	644.472244	760.754545
1807	0.1208	41.1100	0.1503	1095.65906	644.774207	761.131112
1808	0.1212	41.1100	0.1503	1096.02153	645.076246	761.507716
1809	0.1215	41.1100	0.1503	1096.38346	645.378363	761.884359
1810	0.1219	41.1100	0.1503	1096.74489	645.680555	762.261038
1811	0.1223	41.1100	0.1503	1097.10584	645.982824	762.637753
1812	0.1227	41.1100	0.1503	1097.46635	646.285167	763.014503
1813	0.1231	41.1100	0.1504	1097.82643	646.587587	763.391289
1814	0.1234	41.1100	0.1504	1098.1861	646.890081	763.768109
1815	0.1238	41.1100	0.1504	1098.54538	647.192649	764.144963
1816	0.1242	41.1100	0.1504	1098.90427	647.495292	764.52185
1817	0.1246	41.1100	0.1504	1099.26279	647.798009	764.898771
1818	0.1249	41.1100	0.1504	1099.62094	648.100799	765.275724
1819	0.1253	41.1100	0.1504	1099.97873	648.403663	765.65271
1820	0.1257	41.1100	0.1504	1100.33617	648.7066	766.029727
1821	0.1261	41.1100	0.1504	1100.69326	649.00961	766.406775
1822	0.1264	41.1100	0.1505	1101.05	649.312693	766.783854
1823	0.1268	41.1100	0.1505	1101.40641	649.615848	767.160964
1824	0.1272	41.1100	0.1505	1101.76247	649.919074	767.538104
1825	0.1276	41.1100	0.1505	1102.11821	650.222373	767.915273
1826	0.1279	41.1100	0.1505	1102.4736	650.525743	768.292472
1827	0.1283	41.1100	0.1505	1102.82867	650.829185	768.669699
1828	0.1287	41.1100	0.1505	1103.18341	651.132697	769.046955
1829	0.1291	41.1100	0.1505	1103.53783	651.43628	769.424238
1830	0.1294	41.1100	0.1505	1103.89191	651.739934	769.80155
1831	0.1298	41.1100	0.1506	1104.24568	652.043658	770.178888
1832	0.1302	41.1100	0.1506	1104.59912	652.347452	770.556254
1833	0.1306	41.1100	0.1506	1104.95223	652.651315	770.933646
1834	0.1309	41.1100	0.1506	1105.30503	652.955249	771.311064
1835	0.1313	41.1100	0.1506	1105.65751	653.259251	771.688507
1836	0.1317	41.1100	0.1506	1106.00967	653.563322	772.065976
1837	0.1320	41.1100	0.1506	1106.36152	653.867462	772.44347
1838	0.1324	41.1100	0.1506	1106.71304	654.171671	772.820988
1839	0.1328	41.1100	0.1506	1107.06425	654.475948	773.19853
1840	0.1332	41.1100	0.1507	1107.41515	654.780292	773.576096

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1841	0.1335	41.1100		0.1507	1107.76574	655.084705	773.953686
1842	0.1339	41.1100		0.1507	1108.11601	655.389185	774.331298
1843	0.1343	41.1100		0.1507	1108.46597	655.693732	774.708933
1844	0.1346	41.1100		0.1507	1108.81562	655.998347	775.08659
1845	0.1350	41.1100		0.1507	1109.16496	656.303028	775.464269
1846	0.1354	41.1100		0.1507	1109.51399	656.607775	775.84197
1847	0.1357	41.1100		0.1507	1109.86271	656.912589	776.219691
1848	0.1361	41.1100		0.1507	1110.21113	657.217469	776.597434
1849	0.1365	41.1100		0.1508	1110.55924	657.522415	776.975197
1850	0.1368	41.1100		0.1508	1110.90704	657.827426	777.352979
1851	0.1372	41.1100		0.1508	1111.25454	658.132503	777.730782
1852	0.1376	41.1100		0.1508	1111.60173	658.437644	778.108603
1853	0.1379	41.1100		0.1508	1111.94863	658.742851	778.486444
1854	0.1383	41.1100		0.1508	1112.29522	659.048122	778.864303
1855	0.1387	41.1100		0.1508	1112.6415	659.353458	779.24218
1856	0.1390	41.1100		0.1508	1112.98749	659.658857	779.620075
1857	0.1394	41.1100		0.1508	1113.33318	659.964321	779.997987
1858	0.1397	41.1100		0.1508	1113.67873	660.269848	780.375917
1859	0.1401	41.1100		0.1509	1114.02415	660.575439	780.753863
1860	0.1405	41.1100		0.1509	1114.36944	660.881093	781.131826
1861	0.1408	41.1100		0.1509	1114.71458	661.18681	781.509806
1862	0.1410	41.1100		0.1509	1115.05958	661.492591	781.887802
1863	0.1411	41.1100		0.1509	1115.40443	661.798434	782.265815
1864	0.1412	41.1100		0.1509	1115.74915	662.104341	782.643843
1865	0.1413	41.1100		0.1509	1116.09376	662.41031	783.021887
1866	0.1414	41.1100		0.1509	1116.43826	662.716342	783.399947
1867	0.1415	41.1100		0.1509	1116.78265	663.022437	783.778023
1868	0.1416	41.1100		0.1510	1117.12694	663.328594	784.156114
1869	0.1417	41.1100		0.1510	1117.47112	663.634813	784.53422
1870	0.1418	41.1100		0.1510	1117.8152	663.941095	784.912342
1871	0.1419	41.1100		0.1510	1118.15919	664.247439	785.290478
1872	0.1420	41.1100		0.1510	1118.50308	664.553845	785.66863
1873	0.1421	41.1100		0.1510	1118.84687	664.860312	786.046796
1874	0.1422	41.1100		0.1510	1119.19056	665.166842	786.424977
1875	0.1423	41.1100		0.1510	1119.53416	665.473433	786.803172
1876	0.1424	41.1100		0.1510	1119.87766	665.780086	787.181382
1877	0.1425	41.1100		0.1511	1120.22108	666.086801	787.559606
1878	0.1426	41.1100		0.1511	1120.56439	666.393577	787.937844
1879	0.1428	41.1100		0.1511	1120.90762	666.700415	788.316096
1880	0.1429	41.1100		0.1511	1121.25075	667.007314	788.694362
1881	0.1430	41.1100		0.1511	1121.59379	667.314274	789.072642

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1882	0.1431	41.1100		0.1511	1121.93674	667.621295	789.450936
1883	0.1432	41.1100		0.1511	1122.27959	667.928377	789.829243
1884	0.1433	41.1100		0.1511	1122.62236	668.23552	790.207564
1885	0.1434	41.1100		0.1511	1122.96503	668.542723	790.585897
1886	0.1435	41.1100		0.1511	1123.30761	668.849988	790.964245
1887	0.1436	41.1100		0.1512	1123.6501	669.157313	791.342605
1888	0.1437	41.1100		0.1512	1123.9925	669.464699	791.720978
1889	0.1438	41.1100		0.1512	1124.3348	669.772145	792.099364
1890	0.1439	41.1100		0.1512	1124.67702	670.079651	792.477762
1891	0.1440	41.1100		0.1512	1125.01914	670.387218	792.856174
1892	0.1441	41.1100		0.1512	1125.36118	670.694845	793.234597
1893	0.1442	41.1100		0.1512	1125.70312	671.002532	793.613033
1894	0.1443	41.1100		0.1512	1126.04497	671.310279	793.991482
1895	0.1444	41.1100		0.1512	1126.38673	671.618086	794.369942
1896	0.1445	41.1100		0.1513	1126.72841	671.925952	794.748415
1897	0.1446	41.1100		0.1513	1127.06999	672.233878	795.126899
1898	0.1447	41.1100		0.1513	1127.41148	672.541864	795.505395
1899	0.1448	41.1100		0.1513	1127.75288	672.84991	795.883903
1900	0.1449	41.1100		0.1513	1128.09419	673.158014	796.262422
1901	0.1450	41.1100		0.1513	1128.43541	673.466179	796.640953
1902	0.1451	41.1100		0.1513	1128.77654	673.774402	797.019495
1903	0.1452	41.1100		0.1513	1129.11758	674.082684	797.398049
1904	0.1453	41.1100		0.1513	1129.45853	674.391026	797.776613
1905	0.1454	41.1100		0.1513	1129.79939	674.699427	798.155188
1906	0.1455	41.1100		0.1514	1130.14016	675.007886	798.533775
1907	0.1456	41.1100		0.1514	1130.48084	675.316404	798.912372
1908	0.1457	41.1100		0.1514	1130.82143	675.624981	799.290979
1909	0.1458	41.1100		0.1514	1131.16193	675.933616	799.669597
1910	0.1459	41.1100		0.1514	1131.50234	676.24231	800.048226
1911	0.1460	41.1100		0.1514	1131.84267	676.551063	800.426864
1912	0.1461	41.1100		0.1514	1132.1829	676.859873	800.805513
1913	0.1462	41.1100		0.1514	1132.52305	677.168742	801.184172
1914	0.1463	41.1100		0.1514	1132.8631	677.477669	801.562841
1915	0.1464	41.1100		0.1515	1133.20307	677.786654	801.94152
1916	0.1465	41.1100		0.1515	1133.54282	678.095697	802.320208
1917	0.1466	41.1100		0.1515	1133.88228	678.404798	802.698906
1918	0.1467	41.1100		0.1515	1134.22146	678.713957	803.077613
1919	0.1468	41.1100		0.1515	1134.56037	679.023172	803.456329
1920	0.1471	41.1100		0.1515	1134.899	679.332445	803.835053
1921	0.1475	41.1100		0.1515	1135.23737	679.641775	804.213786
1922	0.1480	41.1100		0.1515	1135.57546	679.951161	804.592526

Attachment 7

	AC	AD	AE	AF	AG	AH
20						
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K
1923	0.1484	41.1100		0.1515 1135.91324	680.260604	804.971273
1924	0.1488	41.1100		0.1515 1136.25072	680.570103	805.350028
1925	0.1492	41.1100		0.1516 1136.58788	680.879658	805.72879
1926	0.1496	41.1100		0.1516 1136.92474	681.189269	806.107558
1927	0.1501	41.1100		0.1516 1137.26129	681.498935	806.486332
1928	0.1505	41.1100		0.1516 1137.59752	681.808657	806.865112
1929	0.1509	41.1100		0.1516 1137.93343	682.118434	807.243897
1930	0.1513	41.1100		0.1516 1138.26903	682.428265	807.622687
1931	0.1517	41.1100		0.1516 1138.60431	682.738151	808.001481
1932	0.1522	41.1100		0.1516 1138.93928	683.048092	808.38028
1933	0.1526	41.1100		0.1516 1139.27393	683.358086	808.759083
1934	0.1530	41.1100		0.1517 1139.60826	683.668134	809.137889
1935	0.1534	41.1100		0.1517 1139.94228	683.978236	809.516698
1936	0.1538	41.1100		0.1517 1140.27598	684.288391	809.89551
1937	0.1542	41.1100		0.1517 1140.60937	684.598599	810.274324
1938	0.1546	41.1100		0.1517 1140.94244	684.90886	810.65314
1939	0.1551	41.1100		0.1517 1141.27521	685.219173	811.031958
1940	0.1555	41.1100		0.1517 1141.60766	685.529539	811.410777
1941	0.1559	41.1100		0.1517 1141.93979	685.839957	811.789598
1942	0.1563	41.1100		0.1517 1142.27162	686.150427	812.168418
1943	0.1567	41.1100		0.1517 1142.60314	686.460949	812.547239
1944	0.1571	41.1100		0.1518 1142.93434	686.771522	812.92606
1945	0.1575	41.1100		0.1518 1143.26524	687.082146	813.30488
1946	0.1579	41.1100		0.1518 1143.59584	687.392821	813.683699
1947	0.1584	41.1100		0.1518 1143.92612	687.703547	814.062517
1948	0.1588	41.1100		0.1518 1144.2561	688.014323	814.441334
1949	0.1592	41.1100		0.1518 1144.58577	688.325149	814.820148
1950	0.1596	41.1100		0.1518 1144.91514	688.636026	815.19896
1951	0.1600	41.1100		0.1518 1145.24421	688.946952	815.57777
1952	0.1604	41.1100		0.1518 1145.57297	689.257927	815.956576
1953	0.1608	41.1100		0.1518 1145.90143	689.568952	816.335379
1954	0.1612	41.1100		0.1519 1146.22959	689.880026	816.714179
1955	0.1616	41.1100		0.1519 1146.55745	690.191149	817.092974
1956	0.1620	41.1100		0.1519 1146.88501	690.50232	817.471765
1957	0.1624	41.1100		0.1519 1147.21228	690.81354	817.850552
1958	0.1629	41.1100		0.1519 1147.53924	691.124807	818.229333
1959	0.1633	41.1100		0.1519 1147.86591	691.436123	818.608109
1960	0.1637	41.1100		0.1519 1148.19228	691.747486	818.986879
1961	0.1641	41.1100		0.1519 1148.51835	692.058897	819.365643
1962	0.1645	41.1100		0.1519 1148.84414	692.370355	819.7444
1963	0.1649	41.1100		0.1519 1149.16962	692.68186	820.123151

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
1964	0.1653	41.1100		0.1520	1149.49482	692.993411	820.501895
1965	0.1657	41.1100		0.1520	1149.81972	693.30501	820.880631
1966	0.1661	41.1100		0.1520	1150.14433	693.616654	821.259359
1967	0.1665	41.1100		0.1520	1150.46866	693.928345	821.63808
1968	0.1669	41.1100		0.1520	1150.79269	694.240081	822.016792
1969	0.1673	41.1100		0.1520	1151.11643	694.551863	822.395495
1970	0.1677	41.1100		0.1520	1151.43988	694.863691	822.774189
1971	0.1681	41.1100		0.1520	1151.76305	695.175563	823.152874
1972	0.1685	41.1100		0.1520	1152.08593	695.487481	823.531549
1973	0.1689	41.1100		0.1520	1152.40853	695.799443	823.910213
1974	0.1693	41.1100		0.1520	1152.73084	696.11145	824.288868
1975	0.1697	41.1100		0.1521	1153.05286	696.423501	824.667512
1976	0.1701	41.1100		0.1521	1153.37464	696.735596	825.046144
1977	0.1705	41.1100		0.1521	1153.69633	697.047735	825.424766
1978	0.1709	41.1100		0.1521	1154.01794	697.359918	825.803376
1979	0.1713	41.1100		0.1521	1154.33946	697.672145	826.181974
1980	0.1717	41.1100		0.1521	1154.66087	697.984415	826.560561
1981	0.1718	41.1100		0.1521	1154.98219	698.296729	826.939136
1982	0.1718	41.1100		0.1521	1155.30339	698.609086	827.3177
1983	0.1719	41.1100		0.1521	1155.62452	698.921487	827.696251
1984	0.1719	41.1100		0.1521	1155.94558	699.233931	828.07479
1985	0.1720	41.1100		0.1522	1156.26658	699.546418	828.453318
1986	0.1720	41.1100		0.1522	1156.58752	699.858948	828.831833
1987	0.1721	41.1100		0.1522	1156.90841	700.171521	829.210336
1988	0.1721	41.1100		0.1522	1157.22924	700.484137	829.588826
1989	0.1722	41.1100		0.1522	1157.55002	700.796797	829.967305
1990	0.1722	41.1100		0.1522	1157.87075	701.109499	830.345771
1991	0.1723	41.1100		0.1522	1158.19144	701.422244	830.724224
1992	0.1723	41.1100		0.1522	1158.51208	701.735031	831.102665
1993	0.1724	41.1100		0.1522	1158.83267	702.047862	831.481094
1994	0.1724	41.1100		0.1522	1159.15322	702.360735	831.85951
1995	0.1724	41.1100		0.1523	1159.47372	702.673651	832.237913
1996	0.1725	41.1100		0.1523	1159.79418	702.986609	832.616304
1997	0.1725	41.1100		0.1523	1160.1146	703.29961	832.994682
1998	0.1726	41.1100		0.1523	1160.43498	703.612653	833.373047
1999	0.1726	41.1100		0.1523	1160.75531	703.925739	833.7514
2000	0.1727	41.1100		0.1523	1161.0756	704.238867	834.12974
2001	0.1727	41.1100		0.1523	1161.39585	704.552037	834.508067
2002	0.1728	41.1100		0.1523	1161.71606	704.865249	834.886381
2003	0.1728	41.1100		0.1523	1162.03622	705.178504	835.264682
2004	0.1729	41.1100		0.1523	1162.35634	705.491801	835.64297

Attachment 7

	AC	AD	AE	AF	AG	AH	
20							
21	Cp Channel Box	Mass Rack	Cp Rack	Fual/Clad CP Temp	Upper Plenum CP Temp	Lower Plenum CP Temp	
22	BTU/lb-F	lbm	BTU/lb-F	K	K	K	
2005	0.1729	41.1100		0.1524	1162.67643	705.80514	836.021245
2006	0.1730	41.1100		0.1524	1162.99647	706.11852	836.399507
2007	0.1730	41.1100		0.1524	1163.31647	706.431943	836.777756
2008	0.1731	41.1100		0.1524	1163.63642	706.745408	837.155992
2009	0.1731	41.1100		0.1524	1163.95634	707.058915	837.534214
2010	0.1732	41.1100		0.1524	1164.27622	707.372463	837.912424
2011	0.1732	41.1100		0.1524	1164.59605	707.686054	838.29062
2012	0.1733	41.1100		0.1524	1164.91584	707.999686	838.668803
2013	0.1733	41.1100		0.1524	1165.23559	708.313359	839.046973
2014	0.1734	41.1100		0.1524	1165.5553	708.627074	839.425129
2015	0.1734	41.1100		0.1524	1165.87497	708.940831	839.803272
2016	0.1735	41.1100		0.1525	1166.1946	709.25463	840.181401
2017	0.1735	41.1100		0.1525	1166.51419	709.568469	840.559517
2018	0.1735	41.1100		0.1525	1166.83373	709.882351	840.937619
2019	0.1736	41.1100		0.1525	1167.15324	710.196273	841.315708
2020	0.1736	41.1100		0.1525	1167.4727	710.510237	841.693784
2021	0.1737	41.1100		0.1525	1167.79212	710.824242	842.071845
2022	0.1737	41.1100		0.1525	1168.11151	711.138289	842.449893
2023	0.1738	41.1100		0.1525	1168.43085	711.452376	842.827927
2024	0.1738	41.1100		0.1525	1168.75015	711.766505	843.205948

Attachment 7

	AI	AJ	AK	AL	AM
1					
2					
3					
4					
5					
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7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19	$x=(F24-32)^*$ 5/9+273.15	$x=(G24-32)^*$ 5/9+273.15			
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
23	322.038889	322.038889			0
24	322.038889	322.038889			0.005
25	322.05136	322.038889			0.01
26	322.07587	322.039043			0.015
27	322.112005	322.039499			0.02
28	322.159368	322.040396			0.025
29	322.217583	322.041868			0.03
30	322.286286	322.044042			0.035
31	322.365131	322.047042			0.04
32	322.453787	322.050981			0.045
33	322.551936	322.055972			0.05
34	322.659273	322.062121			0.055
35	322.775508	322.069527			0.06
36	322.90036	322.078289			0.065

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
37	323.033561	322.088497			0.07
38	323.174855	322.100241			0.075
39	323.323994	322.113604			0.08
40	323.480743	322.128666			0.085
41	323.644874	322.145505			0.09
42	323.816169	322.164194			0.095
43	323.994418	322.184803			0.1
44	324.179419	322.207399			0.105
45	324.37098	322.232046			0.11
46	324.568915	322.258807			0.115
47	324.773044	322.287738			0.12
48	324.983196	322.318897			0.125
49	325.199205	322.352336			0.13
50	325.420911	322.388108			0.135
51	325.648162	322.426261			0.14
52	325.88081	322.466842			0.145
53	326.118713	322.509895			0.15
54	326.361733	322.555464			0.155
55	326.609738	322.603589			0.16
56	326.862602	322.654309			0.165
57	327.120202	322.707662			0.17
58	327.382419	322.763683			0.175
59	327.649139	322.822407			0.18
60	327.920252	322.883865			0.185
61	328.195652	322.948089			0.19
62	328.475236	323.015109			0.195
63	328.758904	323.084952			0.2
64	329.046562	323.157646			0.205
65	329.338116	323.233217			0.21
66	329.633477	323.311688			0.215
67	329.932559	323.393084			0.22
68	330.235278	323.477427			0.225
69	330.541553	323.564737			0.23
70	330.851305	323.655034			0.235
71	331.16446	323.748339			0.24
72	331.480943	323.844669			0.245
73	331.800684	323.944041			0.25
74	332.123614	324.046472			0.255
75	332.449666	324.151977			0.26
76	332.778775	324.260571			0.265
77	333.110879	324.372268			0.27

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
78	333.445918	324.48708			0.275
79	333.783832	324.605021			0.28
80	334.124564	324.726101			0.285
81	334.468059	324.850333			0.29
82	334.814263	324.977725			0.295
83	335.163123	325.108288			0.3
84	335.514589	325.24203			0.305
85	335.868611	325.378961			0.31
86	336.225143	325.519087			0.315
87	336.584136	325.662416			0.32
88	336.945546	325.808955			0.325
89	337.309328	325.958709			0.33
90	337.67544	326.111684			0.335
91	338.043841	326.267886			0.34
92	338.414488	326.427318			0.345
93	338.787344	326.589985			0.35
94	339.16237	326.755891			0.355
95	339.539527	326.925038			0.36
96	339.918781	327.09743			0.365
97	340.300094	327.273068			0.37
98	340.683432	327.451955			0.375
99	341.068763	327.634091			0.38
100	341.456052	327.819479			0.385
101	341.845267	328.008118			0.39
102	342.236378	328.200008			0.395
103	342.629353	328.395151			0.4
104	343.024163	328.593544			0.405
105	343.420779	328.795188			0.41
106	343.819171	329.000082			0.415
107	344.219313	329.208222			0.42
108	344.621178	329.419609			0.425
109	345.024738	329.634239			0.43
110	345.429968	329.852111			0.435
111	345.836842	330.07322			0.44
112	346.245336	330.297565			0.445
113	346.655425	330.525142			0.45
114	347.067087	330.755946			0.455
115	347.480297	330.989974			0.46
116	347.895033	331.227223			0.465
117	348.311272	331.467686			0.47
118	348.728994	331.711359			0.475

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
119	349.148177	331.958237			0.48
120	349.5688	332.208315			0.485
121	349.990843	332.461587			0.49
122	350.414285	332.718047			0.495
123	350.839108	332.977689			0.5
124	351.265292	333.240506			0.505
125	351.692818	333.506492			0.51
126	352.121669	333.77564			0.515
127	352.551825	334.047943			0.52
128	352.98327	334.323392			0.525
129	353.415986	334.601981			0.53
130	353.849957	334.883702			0.535
131	354.285165	335.168547			0.54
132	354.721594	335.456507			0.545
133	355.159228	335.747573			0.55
134	355.598052	336.041738			0.555
135	356.038051	336.338991			0.56
136	356.479208	336.639325			0.565
137	356.92151	336.942728			0.57
138	357.364941	337.249193			0.575
139	357.809488	337.558709			0.58
140	358.255136	337.871265			0.585
141	358.701872	338.186852			0.59
142	359.149682	338.50546			0.595
143	359.598553	338.827077			0.6
144	360.048471	339.151694			0.605
145	360.499425	339.479298			0.61
146	360.951401	339.809879			0.615
147	361.404387	340.143425			0.62
148	361.858371	340.479925			0.625
149	362.313341	340.819367			0.63
150	362.769286	341.161739			0.635
151	363.226193	341.50703			0.64
152	363.684051	341.855226			0.645
153	364.142849	342.206315			0.65
154	364.602577	342.560285			0.655
155	365.063223	342.917123			0.66
156	365.524777	343.276816			0.665
157	365.987228	343.639351			0.67
158	366.450567	344.004715			0.675
159	366.914782	344.372893			0.68

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
160	367.379865	344.743873			0.685
161	367.845804	345.117641			0.69
162	368.312592	345.494183			0.695
163	368.780218	345.873484			0.7
164	369.248675	346.255531			0.705
165	369.717952	346.640309			0.71
166	370.188043	347.027804			0.715
167	370.658937	347.418001			0.72
168	371.130627	347.810885			0.725
169	371.603105	348.206442			0.73
170	372.076361	348.604656			0.735
171	372.550389	349.005512			0.74
172	373.025179	349.408995			0.745
173	373.500725	349.81509			0.75
174	373.977017	350.22378			0.755
175	374.45405	350.635051			0.76
176	374.931814	351.048886			0.765
177	375.410302	351.46527			0.77
178	375.889507	351.884187			0.775
179	376.369422	352.305619			0.78
180	376.850039	352.729552			0.785
181	377.331351	353.155969			0.79
182	377.813351	353.584852			0.795
183	378.296032	354.016186			0.8
184	378.779387	354.449955			0.805
185	379.263409	354.88614			0.81
186	379.748091	355.324725			0.815
187	380.233426	355.765693			0.82
188	380.719408	356.209027			0.825
189	381.206031	356.65471			0.83
190	381.693287	357.102724			0.835
191	382.18117	357.553052			0.84
192	382.669674	358.005676			0.845
193	383.158792	358.460579			0.85
194	383.648518	358.917743			0.855
195	384.138846	359.377151			0.86
196	384.629769	359.838784			0.865
197	385.121282	360.302624			0.87
198	385.613378	360.768653			0.875
199	386.106052	361.236854			0.88
200	386.599297	361.707208			0.885

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
201	387.093107	362.179697			0.89
202	387.587476	362.654303			0.895
203	388.0824	363.131006			0.9
204	388.577871	363.609789			0.905
205	389.073884	364.090633			0.91
206	389.570433	364.573519			0.915
207	390.067513	365.058429			0.92
208	390.565118	365.545344			0.925
209	391.063242	366.034246			0.93
210	391.56188	366.525115			0.935
211	392.061026	367.017932			0.94
212	392.560674	367.512679			0.945
213	393.060819	368.009336			0.95
214	393.561456	368.507885			0.955
215	394.06258	369.008306			0.96
216	394.564183	369.510581			0.965
217	395.066263	370.01469			0.97
218	395.568812	370.520614			0.975
219	396.071825	371.028333			0.98
220	396.575298	371.53783			0.985
221	397.079225	372.049083			0.99
222	397.583601	372.562074			0.995
223	398.088419	373.076783			1
224	398.593676	373.593192			1.005
225	399.099366	374.111281			1.01
226	399.605483	374.631029			1.015
227	400.112023	375.152419			1.02
228	400.618997	375.67543			1.025
229	401.126457	376.200044			1.03
230	401.634395	376.726242			1.035
231	402.142798	377.254008			1.04
232	402.651659	377.783321			1.045
233	403.160968	378.314166			1.05
234	403.670716	378.846523			1.055
235	404.180895	379.380375			1.06
236	404.691495	379.915702			1.065
237	405.20251	380.452486			1.07
238	405.71393	380.990709			1.075
239	406.225749	381.530352			1.08
240	406.737959	382.071396			1.085
241	407.250552	382.613823			1.09

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
242	407.763521	383.157614			1.095
243	408.27686	383.70275			1.1
244	408.790562	384.249212			1.105
245	409.304619	384.796981			1.11
246	409.819025	385.346038			1.115
247	410.333774	385.896366			1.12
248	410.84886	386.447943			1.125
249	411.364275	387.000753			1.13
250	411.880015	387.554775			1.135
251	412.396072	388.10999			1.14
252	412.912441	388.666381			1.145
253	413.429116	389.223928			1.15
254	413.946091	389.782612			1.155
255	414.46336	390.342414			1.16
256	414.980918	390.903315			1.165
257	415.498759	391.465298			1.17
258	416.016876	392.028342			1.175
259	416.535265	392.592429			1.18
260	417.053921	393.157541			1.185
261	417.572836	393.723659			1.19
262	418.092007	394.290764			1.195
263	418.611428	394.858838			1.2
264	419.131092	395.427862			1.205
265	419.650996	395.997818			1.21
266	420.171133	396.568687			1.215
267	420.691498	397.140452			1.22
268	421.212086	397.713093			1.225
269	421.732891	398.286593			1.23
270	422.253909	398.860934			1.235
271	422.775135	399.436097			1.24
272	423.296562	400.012064			1.245
273	423.818186	400.588819			1.25
274	424.340001	401.166342			1.255
275	424.862003	401.744616			1.26
276	425.384186	402.323624			1.265
277	425.906545	402.903347			1.27
278	426.429075	403.483769			1.275
279	426.951772	404.064872			1.28
280	427.474629	404.646639			1.285
281	427.997642	405.229052			1.29
282	428.520806	405.812094			1.295

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
283	429.044115	406.395749			1.3
284	429.567565	406.979999			1.305
285	430.091151	407.564827			1.31
286	430.614868	408.150217			1.315
287	431.13871	408.736152			1.32
288	431.662673	409.322616			1.325
289	432.186752	409.909593			1.33
290	432.710942	410.497065			1.335
291	433.235238	411.085016			1.34
292	433.759635	411.673432			1.345
293	434.284128	412.262295			1.35
294	434.808712	412.851589			1.355
295	435.333382	413.4413			1.36
296	435.858134	414.03141			1.365
297	436.382963	414.621906			1.37
298	436.907864	415.212771			1.375
299	437.432832	415.80399			1.38
300	437.957862	416.395548			1.385
301	438.482949	416.987429			1.39
302	439.00809	417.57962			1.395
303	439.533278	418.172104			1.4
304	440.05851	418.764868			1.405
305	440.58378	419.357897			1.41
306	441.109085	419.951177			1.415
307	441.634418	420.544692			1.42
308	442.159777	421.138429			1.425
309	442.685156	421.732374			1.43
310	443.21055	422.326513			1.435
311	443.735955	422.920833			1.44
312	444.261366	423.515318			1.445
313	444.78678	424.109957			1.45
314	445.312191	424.704735			1.455
315	445.837594	425.29964			1.46
316	446.362987	425.894657			1.465
317	446.888363	426.489775			1.47
318	447.413719	427.084981			1.475
319	447.939051	427.68026			1.48
320	448.464353	428.275602			1.485
321	448.989622	428.870994			1.49
322	449.514854	429.466422			1.495
323	450.040044	430.061876			1.5

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
324	450.565187	430.657343			1.505
325	451.090281	431.252811			1.51
326	451.61532	431.848268			1.515
327	452.140301	432.443703			1.52
328	452.665218	433.039104			1.525
329	453.19007	433.634461			1.53
330	453.71485	434.229761			1.535
331	454.239556	434.824993			1.54
332	454.764183	435.420148			1.545
333	455.288728	436.015213			1.55
334	455.813185	436.610179			1.555
335	456.337553	437.205034			1.56
336	456.861826	437.799769			1.565
337	457.386002	438.394373			1.57
338	457.910075	438.988837			1.575
339	458.434043	439.583149			1.58
340	458.957902	440.177301			1.585
341	459.481647	440.771283			1.59
342	460.005277	441.365085			1.595
343	460.528786	441.958698			1.6
344	461.052172	442.552112			1.605
345	461.57543	443.145319			1.61
346	462.098559	443.738309			1.615
347	462.621553	444.331074			1.62
348	463.144409	444.923605			1.625
349	463.667125	445.515894			1.63
350	464.189697	446.107931			1.635
351	464.712122	446.69971			1.64
352	465.234396	447.291221			1.645
353	465.756516	447.882457			1.65
354	466.27848	448.473409			1.655
355	466.800283	449.064071			1.66
356	467.321924	449.654434			1.665
357	467.843398	450.244491			1.67
358	468.364703	450.834235			1.675
359	468.885837	451.423658			1.68
360	469.406795	452.012754			1.685
361	469.927576	452.601515			1.69
362	470.448176	453.189936			1.695
363	470.968593	453.778008			1.7
364	471.488824	454.365726			1.705

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
365	472.008866	454.953083			1.71
366	472.528716	455.540073			1.715
367	473.048373	456.12669			1.72
368	473.567833	456.712927			1.725
369	474.087094	457.29878			1.73
370	474.606153	457.884241			1.735
371	475.125009	458.469306			1.74
372	475.643658	459.05397			1.745
373	476.162098	459.638225			1.75
374	476.680327	460.222069			1.755
375	477.198343	460.805494			1.76
376	477.716143	461.388497			1.765
377	478.233725	461.971072			1.77
378	478.751088	462.553214			1.775
379	479.268228	463.13492			1.78
380	479.785145	463.716184			1.785
381	480.301836	464.297001			1.79
382	480.818298	464.877369			1.795
383	481.334531	465.457282			1.8
384	481.850532	466.036736			1.805
385	482.366299	466.615728			1.81
386	482.881831	467.194254			1.815
387	483.397125	467.772309			1.82
388	483.912181	468.349891			1.825
389	484.426996	468.926995			1.83
390	484.941568	469.503619			1.835
391	485.455897	470.079759			1.84
392	485.969981	470.655411			1.845
393	486.483817	471.230574			1.85
394	486.997405	471.805243			1.855
395	487.510744	472.379416			1.86
396	488.023831	472.95309			1.865
397	488.536665	473.526263			1.87
398	489.049246	474.098931			1.875
399	489.561571	474.671093			1.88
400	490.07364	475.242746			1.885
401	490.585452	475.813887			1.89
402	491.097004	476.384515			1.895
403	491.608297	476.954627			1.9
404	492.119329	477.524222			1.905
405	492.630098	478.093298			1.91

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
406	493.140605	478.661852			1.915
407	493.650848	479.229882			1.92
408	494.160826	479.797389			1.925
409	494.670537	480.364369			1.93
410	495.179983	480.930821			1.935
411	495.68916	481.496744			1.94
412	496.19807	482.062137			1.945
413	496.70671	482.626998			1.95
414	497.21508	483.191326			1.955
415	497.72318	483.75512			1.96
416	498.231009	484.31838			1.965
417	498.738566	484.881104			1.97
418	499.24585	485.443291			1.975
419	499.752862	486.004941			1.98
420	500.2596	486.566053			1.985
421	500.766064	487.126626			1.99
422	501.272254	487.686661			1.995
423	501.778169	488.246156			2
424	502.283808	488.805111			2.005
425	502.789172	489.363525			2.01
426	503.29426	489.921399			2.015
427	503.799072	490.478733			2.02
428	504.303608	491.035525			2.025
429	504.807866	491.591777			2.03
430	505.311848	492.147488			2.035
431	505.815552	492.702657			2.04
432	506.318979	493.257287			2.045
433	506.822128	493.811376			2.05
434	507.325	494.364924			2.055
435	507.827595	494.917933			2.06
436	508.329911	495.470402			2.065
437	508.83195	496.022332			2.07
438	509.333711	496.573723			2.075
439	509.835194	497.124576			2.08
440	510.336399	497.674892			2.085
441	510.837327	498.22467			2.09
442	511.337977	498.773913			2.095
443	511.83835	499.322619			2.1
444	512.338445	499.870791			2.105
445	512.838264	500.41843			2.11
446	513.337805	500.965535			2.115

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
447	513.83707	501.512107			2.12
448	514.336058	502.058149			2.125
449	514.83477	502.60366			2.13
450	515.333206	503.148643			2.135
451	515.831366	503.693097			2.14
452	516.329251	504.237024			2.145
453	516.826861	504.780426			2.15
454	517.324196	505.323303			2.155
455	517.821256	505.865656			2.16
456	518.318043	506.407487			2.165
457	518.814556	506.948798			2.17
458	519.310796	507.489589			2.175
459	519.806764	508.029862			2.18
460	520.302459	508.569619			2.185
461	520.797882	509.10886			2.19
462	521.293034	509.647588			2.195
463	521.787916	510.185803			2.2
464	522.282527	510.723508			2.205
465	522.776868	511.260703			2.21
466	523.27094	511.797391			2.215
467	523.764744	512.333573			2.22
468	524.258279	512.86925			2.225
469	524.751547	513.404425			2.23
470	525.244549	513.939099			2.235
471	525.737284	514.473274			2.24
472	526.229753	515.006951			2.245
473	526.721958	515.540132			2.25
474	527.213898	516.07282			2.255
475	527.705575	516.605015			2.26
476	528.196988	517.136719			2.265
477	528.68814	517.667935			2.27
478	529.179029	518.198665			2.275
479	529.669658	518.728909			2.28
480	530.160027	519.258671			2.285
481	530.650137	519.787951			2.29
482	531.139987	520.316752			2.295
483	531.62958	520.845076			2.3
484	532.118916	521.372925			2.305
485	532.607995	521.9003			2.31
486	533.096819	522.427204			2.315
487	533.585388	522.953638			2.32

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
488	534.073702	523.479605			2.325
489	534.561764	524.005107			2.33
490	535.049573	524.530145			2.335
491	535.53713	525.054722			2.34
492	536.024436	525.578839			2.345
493	536.511493	526.102499			2.35
494	536.9983	526.625704			2.355
495	537.484858	527.148456			2.36
496	537.97117	527.670756			2.365
497	538.457234	528.192607			2.37
498	538.943053	528.714011			2.375
499	539.428626	529.234971			2.38
500	539.913956	529.755487			2.385
501	540.399042	530.275562			2.39
502	540.883885	530.795199			2.395
503	541.368488	531.314399			2.4
504	541.852849	531.833165			2.405
505	542.336971	532.351498			2.41
506	542.820853	532.869401			2.415
507	543.304498	533.386876			2.42
508	543.787905	533.903924			2.425
509	544.271076	534.420549			2.43
510	544.754012	534.936751			2.435
511	545.236713	535.452534			2.44
512	545.719181	535.967899			2.445
513	546.201415	536.482848			2.45
514	546.683418	536.997384			2.455
515	547.16519	537.511508			2.46
516	547.646732	538.025223			2.465
517	548.128044	538.53853			2.47
518	548.609129	539.051433			2.475
519	549.089986	539.563932			2.48
520	549.570616	540.07603			2.485
521	550.051021	540.58773			2.49
522	550.531201	541.099032			2.495
523	551.011157	541.60994			2.5
524	551.490891	542.120455			2.505
525	551.970402	542.630579			2.51
526	552.449693	543.140315			2.515
527	552.928763	543.649664			2.52
528	553.407614	544.158629			2.525

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
529	553.886246	544.667211			2.53
530	554.364661	545.175413			2.535
531	554.842859	545.683236			2.54
532	555.320841	546.190683			2.545
533	555.798609	546.697755			2.55
534	556.276163	547.204455			2.555
535	556.753503	547.710785			2.56
536	557.230631	548.216746			2.565
537	557.707548	548.722341			2.57
538	558.184255	549.227572			2.575
539	558.660751	549.73244			2.58
540	559.137039	550.236948			2.585
541	559.61312	550.741097			2.59
542	560.088993	551.244889			2.595
543	560.56466	551.748327			2.6
544	561.040122	552.251412			2.605
545	561.51538	552.754146			2.61
546	561.990434	553.256532			2.615
547	562.465285	553.75857			2.62
548	562.939935	554.260263			2.625
549	563.414384	554.761613			2.63
550	563.888632	555.262622			2.635
551	564.362681	555.763291			2.64
552	564.836532	556.263622			2.645
553	565.310186	556.763618			2.65
554	565.783642	557.26328			2.655
555	566.256903	557.762609			2.66
556	566.729968	558.261608			2.665
557	567.202839	558.760279			2.67
558	567.675517	559.258623			2.675
559	568.148002	559.756642			2.68
560	568.620295	560.254338			2.685
561	569.092397	560.751712			2.69
562	569.564309	561.248767			2.695
563	570.036032	561.745504			2.7
564	570.507566	562.241924			2.705
565	570.978912	562.738031			2.71
566	571.450071	563.233824			2.715
567	571.921044	563.729306			2.72
568	572.391832	564.224479			2.725
569	572.862434	564.719345			2.73

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
570	573.332853	565.213904			2.735
571	573.803089	565.708159			2.74
572	574.273142	566.202111			2.745
573	574.743014	566.695762			2.75
574	575.212705	567.189114			2.755
575	575.682216	567.682168			2.76
576	576.151547	568.174925			2.765
577	576.6207	568.667388			2.77
578	577.089675	569.159558			2.775
579	577.558473	569.651436			2.78
580	578.027094	570.143025			2.785
581	578.49554	570.634325			2.79
582	578.963811	571.125338			2.795
583	579.431907	571.616066			2.8
584	579.89983	572.10651			2.805
585	580.367581	572.596672			2.81
586	580.835159	573.086553			2.815
587	581.302566	573.576155			2.82
588	581.769802	574.065479			2.825
589	582.236868	574.554526			2.83
590	582.703765	575.043299			2.835
591	583.170493	575.531798			2.84
592	583.637053	576.020025			2.845
593	584.103446	576.507982			2.85
594	584.569673	576.995669			2.855
595	585.035733	577.483088			2.86
596	585.501629	577.970241			2.865
597	585.96736	578.45713			2.87
598	586.432926	578.943754			2.875
599	586.89833	579.430116			2.88
600	587.363571	579.916217			2.885
601	587.82865	580.402059			2.89
602	588.293568	580.887642			2.895
603	588.758325	581.372968			2.9
604	589.222921	581.858039			2.905
605	589.687359	582.342855			2.91
606	590.151637	582.827419			2.915
607	590.615758	583.31173			2.92
608	591.079721	583.795791			2.925
609	591.543526	584.279603			2.93
610	592.007176	584.763166			2.935

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
611	592.47067	585.246483			2.94
612	592.934008	585.729555			2.945
613	593.397192	586.212382			2.95
614	593.860222	586.694966			2.955
615	594.323099	587.177308			2.96
616	594.785822	587.65941			2.965
617	595.248394	588.141271			2.97
618	595.710814	588.622895			2.975
619	596.173083	589.104281			2.98
620	596.635201	589.585432			2.985
621	597.097169	590.066347			2.99
622	597.558988	590.547029			2.995
623	598.020658	591.027479			3
624	598.48218	591.507696			3.005
625	598.943554	591.987684			3.01
626	599.404781	592.467442			3.015
627	599.865862	592.946972			3.02
628	600.326796	593.426275			3.025
629	600.787584	593.905352			3.03
630	601.248228	594.384204			3.035
631	601.708727	594.862832			3.04
632	602.169082	595.341237			3.045
633	602.629293	595.819421			3.05
634	603.089362	596.297383			3.055
635	603.549288	596.775126			3.06
636	604.009072	597.252651			3.065
637	604.468715	597.729957			3.07
638	604.928216	598.207047			3.075
639	605.387578	598.683922			3.08
640	605.846799	599.160582			3.085
641	606.305881	599.637027			3.09
642	606.764824	600.113261			3.095
643	607.223628	600.589282			3.1
644	607.682295	601.065093			3.105
645	608.140824	601.540693			3.11
646	608.599216	602.016085			3.115
647	609.057471	602.491269			3.12
648	609.51559	602.966246			3.125
649	609.973574	603.441017			3.13
650	610.431422	603.915582			3.135
651	610.889136	604.389943			3.14

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
652	611.346715	604.864101			3.145
653	611.804161	605.338056			3.15
654	612.261473	605.811809			3.155
655	612.718652	606.285362			3.16
656	613.175699	606.758715			3.165
657	613.632614	607.231869			3.17
658	614.089397	607.704825			3.175
659	614.546049	608.177583			3.18
660	615.00257	608.650145			3.185
661	615.458961	609.122511			3.19
662	615.915222	609.594682			3.195
663	616.371354	610.06666			3.2
664	616.827356	610.538444			3.205
665	617.28323	611.010036			3.21
666	617.738976	611.481436			3.215
667	618.194594	611.952646			3.22
668	618.650085	612.423666			3.225
669	619.105448	612.894496			3.23
670	619.560685	613.365138			3.235
671	620.015796	613.835593			3.24
672	620.470781	614.305861			3.245
673	620.925641	614.775942			3.25
674	621.380376	615.245839			3.255
675	621.834986	615.715551			3.26
676	622.289472	616.185079			3.265
677	622.743834	616.654424			3.27
678	623.198072	617.123586			3.275
679	623.652188	617.592567			3.28
680	624.106181	618.061368			3.285
681	624.560052	618.529988			3.29
682	625.0138	618.998428			3.295
683	625.467427	619.46669			3.3
684	625.920933	619.934774			3.305
685	626.374318	620.402681			3.31
686	626.827583	620.870411			3.315
687	627.280728	621.337965			3.32
688	627.733753	621.805344			3.325
689	628.186658	622.272548			3.33
690	628.639444	622.739578			3.335
691	629.092112	623.206435			3.34
692	629.544662	623.67312			3.345

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
693	629.997093	624.139633			3.35
694	630.449407	624.605974			3.355
695	630.901603	625.072145			3.36
696	631.353683	625.538146			3.365
697	631.805646	626.003977			3.37
698	632.257493	626.46964			3.375
699	632.709225	626.935135			3.38
700	633.160842	627.400463			3.385
701	633.612344	627.865624			3.39
702	634.063733	628.330619			3.395
703	634.515008	628.795448			3.4
704	634.966169	629.260113			3.405
705	635.417218	629.724614			3.41
706	635.868155	630.188952			3.415
707	636.31898	630.653128			3.42
708	636.769692	631.117141			3.425
709	637.220294	631.580993			3.43
710	637.670784	632.044684			3.435
711	638.121164	632.508216			3.44
712	638.571434	632.971588			3.445
713	639.021593	633.434801			3.45
714	639.471643	633.897856			3.455
715	639.921583	634.360754			3.46
716	640.371415	634.823494			3.465
717	640.821149	635.286079			3.47
718	641.270786	635.748508			3.475
719	641.720324	636.210785			3.48
720	642.16976	636.672909			3.485
721	642.619094	637.134882			3.49
722	643.068324	637.596705			3.495
723	643.517451	638.058378			3.5
724	643.966475	638.519902			3.505
725	644.415395	638.981278			3.51
726	644.864211	639.442505			3.515
727	645.312924	639.903585			3.52
728	645.761534	640.364518			3.525
729	646.21004	640.825305			3.53
730	646.658444	641.285945			3.535
731	647.106744	641.74644			3.54
732	647.554943	642.20679			3.545
733	648.003039	642.666995			3.55

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
734	648.451033	643.127056			3.555
735	648.898925	643.586973			3.56
736	649.346715	644.046746			3.565
737	649.794405	644.506377			3.57
738	650.241993	644.965865			3.575
739	650.689481	645.425212			3.58
740	651.136868	645.884416			3.585
741	651.584154	646.34348			3.59
742	652.031341	646.802402			3.595
743	652.478427	647.261185			3.6
744	652.925414	647.719827			3.605
745	653.372302	648.178331			3.61
746	653.81909	648.636695			3.615
747	654.26578	649.09492			3.62
748	654.712371	649.553008			3.625
749	655.158863	650.010957			3.63
750	655.605258	650.468769			3.635
751	656.051554	650.926445			3.64
752	656.497753	651.383984			3.645
753	656.943854	651.841387			3.65
754	657.389858	652.298654			3.655
755	657.835765	652.755786			3.66
756	658.281575	653.212783			3.665
757	658.727288	653.669646			3.67
758	659.172905	654.126374			3.675
759	659.618426	654.582969			3.68
760	660.063852	655.039431			3.685
761	660.509181	655.49576			3.69
762	660.954415	655.951957			3.695
763	661.399554	656.408022			3.7
764	661.844598	656.863955			3.705
765	662.289547	657.319757			3.71
766	662.734402	657.775428			3.715
767	663.179162	658.230968			3.72
768	663.623828	658.686379			3.725
769	664.0684	659.14166			3.73
770	664.512879	659.596811			3.735
771	664.957264	660.051834			3.74
772	665.401556	660.506728			3.745
773	665.845754	660.961494			3.75
774	666.289861	661.416132			3.755

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
775	666.733874	661.870643			3.76
776	667.177795	662.325027			3.765
777	667.621624	662.779284			3.77
778	668.065361	663.233415			3.775
779	668.509006	663.687421			3.78
780	668.95256	664.1413			3.785
781	669.396022	664.595055			3.79
782	669.839393	665.048684			3.795
783	670.282673	665.50219			3.8
784	670.725863	665.955571			3.805
785	671.168962	666.408828			3.81
786	671.611971	666.861962			3.815
787	672.054889	667.314973			3.82
788	672.497718	667.767862			3.825
789	672.940457	668.220628			3.83
790	673.383106	668.673272			3.835
791	673.825667	669.125795			3.84
792	674.268138	669.578196			3.845
793	674.71052	670.030476			3.85
794	675.152813	670.482636			3.855
795	675.595018	670.934676			3.86
796	676.037135	671.386595			3.865
797	676.479163	671.838396			3.87
798	676.921104	672.290077			3.875
799	677.362957	672.741639			3.88
800	677.804722	673.193082			3.885
801	678.2464	673.644407			3.89
802	678.687991	674.095615			3.895
803	679.129494	674.546705			3.9
804	679.570911	674.997677			3.905
805	680.012242	675.448533			3.91
806	680.453486	675.899272			3.915
807	680.894643	676.349895			3.92
808	681.335715	676.800402			3.925
809	681.776701	677.250793			3.93
810	682.217601	677.701069			3.935
811	682.658415	678.15123			3.94
812	683.099144	678.601276			3.945
813	683.539789	679.051208			3.95
814	683.980348	679.501025			3.955
815	684.420822	679.950729			3.96

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
816	684.861212	680.40032			3.965
817	685.301517	680.849797			3.97
818	685.741738	681.299162			3.975
819	686.181875	681.748414			3.98
820	686.621928	682.197554			3.985
821	687.061898	682.646581			3.99
822	687.501783	683.095498			3.995
823	687.941586	683.544302			4
824	688.381305	683.992996			4.005
825	688.820941	684.441579			4.01
826	689.260495	684.890052			4.015
827	689.699965	685.338414			4.02
828	690.139354	685.786666			4.025
829	690.578659	686.234809			4.03
830	691.017883	686.682843			4.035
831	691.457025	687.130767			4.04
832	691.896084	687.578583			4.045
833	692.335062	688.02629			4.05
834	692.773959	688.47389			4.055
835	693.212774	688.921381			4.06
836	693.651508	689.368764			4.065
837	694.090161	689.81604			4.07
838	694.528733	690.26321			4.075
839	694.967225	690.710272			4.08
840	695.405635	691.157228			4.085
841	695.843966	691.604077			4.09
842	696.282216	692.050821			4.095
843	696.720386	692.497459			4.1
844	697.158477	692.943991			4.105
845	697.596487	693.390418			4.11
846	698.034418	693.83674			4.115
847	698.47227	694.282958			4.12
848	698.910042	694.729071			4.125
849	699.347735	695.17508			4.13
850	699.785349	695.620986			4.135
851	700.222884	696.066787			4.14
852	700.660341	696.512485			4.145
853	701.097719	696.95808			4.15
854	701.535019	697.403573			4.155
855	701.97224	697.848962			4.16
856	702.409384	698.29425			4.165

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
857	702.846449	698.739435			4.17
858	703.283437	699.184518			4.175
859	703.720347	699.6295			4.18
860	704.15718	700.074381			4.185
861	704.593935	700.51916			4.19
862	705.030614	700.963838			4.195
863	705.467215	701.408416			4.2
864	705.903739	701.852894			4.205
865	706.340187	702.297271			4.21
866	706.776558	702.741549			4.215
867	707.212853	703.185727			4.22
868	707.649071	703.629805			4.225
869	708.085213	704.073784			4.23
870	708.521279	704.517665			4.235
871	708.957269	704.961446			4.24
872	709.393184	705.405129			4.245
873	709.829023	705.848714			4.25
874	710.264786	706.292201			4.255
875	710.700474	706.735591			4.26
876	711.136087	707.178882			4.265
877	711.571625	707.622077			4.27
878	712.007088	708.065174			4.275
879	712.442477	708.508174			4.28
880	712.87779	708.951078			4.285
881	713.31303	709.393886			4.29
882	713.748194	709.836597			4.295
883	714.183285	710.279212			4.3
884	714.618302	710.721732			4.305
885	715.053244	711.164156			4.31
886	715.488113	711.606485			4.315
887	715.922908	712.048718			4.32
888	716.35763	712.490857			4.325
889	716.792278	712.932901			4.33
890	717.226853	713.374851			4.335
891	717.661354	713.816707			4.34
892	718.095783	714.258468			4.345
893	718.530139	714.700136			4.35
894	718.964422	715.14171			4.355
895	719.398632	715.583191			4.36
896	719.83277	716.024579			4.365
897	720.266835	716.465874			4.37

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
898	720.700828	716.907076			4.375
899	721.13475	717.348185			4.38
900	721.568599	717.789202			4.385
901	722.002376	718.230127			4.39
902	722.436081	718.670961			4.395
903	722.869715	719.111702			4.4
904	723.303277	719.552352			4.405
905	723.736768	719.992911			4.41
906	724.170188	720.433379			4.415
907	724.603537	720.873755			4.42
908	725.036814	721.314041			4.425
909	725.470021	721.754237			4.43
910	725.903157	722.194342			4.435
911	726.336222	722.634357			4.44
912	726.769217	723.074283			4.445
913	727.202141	723.514118			4.45
914	727.634995	723.953864			4.455
915	728.067779	724.393521			4.46
916	728.500493	724.833088			4.465
917	728.933137	725.272567			4.47
918	729.365711	725.711957			4.475
919	729.798216	726.151258			4.48
920	730.23065	726.590471			4.485
921	730.663016	727.029596			4.49
922	731.095312	727.468633			4.495
923	731.527539	727.907582			4.5
924	731.959697	728.346443			4.505
925	732.391785	728.785217			4.51
926	732.823805	729.223904			4.515
927	733.255756	729.662504			4.52
928	733.687639	730.101017			4.525
929	734.119453	730.539443			4.53
930	734.551198	730.977782			4.535
931	734.982875	731.416036			4.54
932	735.414485	731.854203			4.545
933	735.846025	732.292284			4.55
934	736.277498	732.730279			4.555
935	736.708904	733.168189			4.56
936	737.140241	733.606013			4.565
937	737.571511	734.043752			4.57
938	738.002713	734.481406			4.575

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
939	738.433847	734.918975			4.58
940	738.864915	735.35646			4.585
941	739.295915	735.793859			4.59
942	739.726848	736.231175			4.595
943	740.157714	736.668406			4.6
944	740.588514	737.105553			4.605
945	741.019246	737.542616			4.61
946	741.449912	737.979596			4.615
947	741.880511	738.416492			4.62
948	742.311044	738.853304			4.625
949	742.74151	739.290034			4.63
950	743.171911	739.72668			4.635
951	743.602245	740.163244			4.64
952	744.032513	740.599725			4.645
953	744.462715	741.036123			4.65
954	744.892851	741.472439			4.655
955	745.322922	741.908673			4.66
956	745.752927	742.344824			4.665
957	746.182866	742.780894			4.67
958	746.61274	743.216882			4.675
959	747.042549	743.652789			4.68
960	747.472292	744.088614			4.685
961	747.901971	744.524358			4.69
962	748.331584	744.960021			4.695
963	748.761132	745.395603			4.7
964	749.190616	745.831104			4.705
965	749.620035	746.266525			4.71
966	750.049389	746.701865			4.715
967	750.478679	747.137125			4.72
968	750.907904	747.572305			4.725
969	751.337065	748.007405			4.73
970	751.766162	748.442424			4.735
971	752.195195	748.877365			4.74
972	752.624164	749.312226			4.745
973	753.053068	749.747007			4.75
974	753.481909	750.181709			4.755
975	753.910687	750.616333			4.76
976	754.3394	751.050877			4.765
977	754.76805	751.485342			4.77
978	755.196637	751.919729			4.775
979	755.62516	752.354038			4.78

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
980	756.05362	752.788268			4.785
981	756.482017	753.22242			4.79
982	756.910351	753.656494			4.795
983	757.338622	754.09049			4.8
984	757.76683	754.524409			4.805
985	758.194975	754.95825			4.81
986	758.623057	755.392013			4.815
987	759.051077	755.825699			4.82
988	759.479035	756.259308			4.825
989	759.90693	756.692841			4.83
990	760.334762	757.126296			4.835
991	760.762533	757.559674			4.84
992	761.190241	757.992976			4.845
993	761.617887	758.426202			4.85
994	762.045471	758.859351			4.855
995	762.472994	759.292424			4.86
996	762.900454	759.725421			4.865
997	763.327853	760.158343			4.87
998	763.755191	760.591188			4.875
999	764.182467	761.023958			4.88
1000	764.609681	761.456653			4.885
1001	765.036834	761.889272			4.89
1002	765.463926	762.321816			4.895
1003	765.890957	762.754285			4.9
1004	766.317926	763.186679			4.905
1005	766.744835	763.618999			4.91
1006	767.171683	764.051244			4.915
1007	767.59847	764.483414			4.92
1008	768.025196	764.91551			4.925
1009	768.451861	765.347531			4.93
1010	768.878466	765.779479			4.935
1011	769.305011	766.211353			4.94
1012	769.731495	766.643153			4.945
1013	770.157919	767.074879			4.95
1014	770.584283	767.506531			4.955
1015	771.010586	767.93811			4.96
1016	771.43683	768.369616			4.965
1017	771.863014	768.801049			4.97
1018	772.289137	769.232409			4.975
1019	772.715201	769.663695			4.98
1020	773.141206	770.094909			4.985

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1021	773.56715	770.52605			4.99
1022	773.993035	770.957119			4.995
1023	774.418861	771.388115			5
1024	774.844627	771.819039			5.005
1025	775.270334	772.249891			5.01
1026	775.695982	772.680671			5.015
1027	776.121571	773.111379			5.02
1028	776.5471	773.542015			5.025
1029	776.972571	773.97258			5.03
1030	777.397983	774.403073			5.035
1031	777.823336	774.833494			5.04
1032	778.24863	775.263845			5.045
1033	778.673865	775.694124			5.05
1034	779.099042	776.124332			5.055
1035	779.524161	776.554469			5.06
1036	779.949221	776.984535			5.065
1037	780.374223	777.414531			5.07
1038	780.799166	777.844456			5.075
1039	781.224052	778.274311			5.08
1040	781.648879	778.704095			5.085
1041	782.073648	779.13381			5.09
1042	782.49836	779.563454			5.095
1043	782.923013	779.993028			5.1
1044	783.347609	780.422532			5.105
1045	783.772147	780.851967			5.11
1046	784.196627	781.281332			5.115
1047	784.62105	781.710627			5.12
1048	785.045416	782.139853			5.125
1049	785.469724	782.56901			5.13
1050	785.893974	782.998098			5.135
1051	786.318168	783.427116			5.14
1052	786.742304	783.856066			5.145
1053	787.166383	784.284947			5.15
1054	787.590405	784.713759			5.155
1055	788.01437	785.142503			5.16
1056	788.438279	785.571178			5.165
1057	788.86213	785.999785			5.17
1058	789.285925	786.428323			5.175
1059	789.709663	786.856794			5.18
1060	790.133345	787.285196			5.185
1061	790.55697	787.713531			5.19

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1062	790.980538	788.141798			5.195
1063	791.404051	788.569997			5.2
1064	791.827507	788.998128			5.205
1065	792.250907	789.426192			5.21
1066	792.67425	789.854189			5.215
1067	793.097538	790.282118			5.22
1068	793.520769	790.709981			5.225
1069	793.943945	791.137776			5.23
1070	794.367065	791.565504			5.235
1071	794.790129	791.993166			5.24
1072	795.213137	792.42076			5.245
1073	795.63609	792.848289			5.25
1074	796.058987	793.27575			5.255
1075	796.481829	793.703146			5.26
1076	796.904615	794.130475			5.265
1077	797.327346	794.557737			5.27
1078	797.750021	794.984934			5.275
1079	798.172642	795.412065			5.28
1080	798.595207	795.83913			5.285
1081	799.017717	796.266129			5.29
1082	799.440172	796.693062			5.295
1083	799.862572	797.11993			5.3
1084	800.284918	797.546733			5.305
1085	800.707208	797.97347			5.31
1086	801.129444	798.400142			5.315
1087	801.551625	798.826748			5.32
1088	801.973752	799.25329			5.325
1089	802.395824	799.679767			5.33
1090	802.817841	800.106179			5.335
1091	803.239804	800.532526			5.34
1092	803.661713	800.958808			5.345
1093	804.083568	801.385026			5.35
1094	804.505368	801.81118			5.355
1095	804.927114	802.237269			5.36
1096	805.348806	802.663293			5.365
1097	805.770444	803.089254			5.37
1098	806.192029	803.515151			5.375
1099	806.613559	803.940984			5.38
1100	807.035036	804.366752			5.385
1101	807.456458	804.792457			5.39
1102	807.877827	805.218099			5.395

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1103	808.299143	805.643677			5.4
1104	808.720405	806.069191			5.405
1105	809.141614	806.494642			5.41
1106	809.562769	806.92003			5.415
1107	809.98387	807.345354			5.42
1108	810.404919	807.770616			5.425
1109	810.825914	808.195814			5.43
1110	811.246856	808.62095			5.435
1111	811.667745	809.046023			5.44
1112	812.088581	809.471033			5.445
1113	812.509364	809.89598			5.45
1114	812.930094	810.320865			5.455
1115	813.350772	810.745687			5.46
1116	813.771396	811.170447			5.465
1117	814.191968	811.595145			5.47
1118	814.612487	812.019781			5.475
1119	815.032954	812.444354			5.48
1120	815.453368	812.868866			5.485
1121	815.873729	813.293316			5.49
1122	816.294038	813.717704			5.495
1123	816.714295	814.14203			5.5
1124	817.1345	814.566295			5.505
1125	817.554652	814.990498			5.51
1126	817.974752	815.414639			5.515
1127	818.3948	815.83872			5.52
1128	818.814796	816.262739			5.525
1129	819.23474	816.686697			5.53
1130	819.654632	817.110594			5.535
1131	820.074472	817.53443			5.54
1132	820.494261	817.958204			5.545
1133	820.913998	818.381919			5.55
1134	821.333683	818.805572			5.555
1135	821.753316	819.229165			5.56
1136	822.172898	819.652697			5.565
1137	822.592428	820.076169			5.57
1138	823.011907	820.49958			5.575
1139	823.431335	820.922931			5.58
1140	823.850711	821.346222			5.585
1141	824.270036	821.769453			5.59
1142	824.689309	822.192624			5.595
1143	825.108532	822.615734			5.6

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1144	825.527703	823.038785			5.605
1145	825.946824	823.461776			5.61
1146	826.365893	823.884708			5.615
1147	826.784912	824.307579			5.62
1148	827.20388	824.730392			5.625
1149	827.622797	825.153145			5.63
1150	828.041663	825.575838			5.635
1151	828.460478	825.998472			5.64
1152	828.879243	826.421047			5.645
1153	829.297957	826.843563			5.65
1154	829.716621	827.26602			5.655
1155	830.135234	827.688418			5.66
1156	830.553797	828.110757			5.665
1157	830.97231	828.533037			5.67
1158	831.390772	828.955258			5.675
1159	831.809184	829.377421			5.68
1160	832.227545	829.799526			5.685
1161	832.645857	830.221571			5.69
1162	833.064119	830.643559			5.695
1163	833.48233	831.065488			5.7
1164	833.900492	831.487359			5.705
1165	834.318604	831.909172			5.71
1166	834.736665	832.330927			5.715
1167	835.154677	832.752623			5.72
1168	835.57264	833.174262			5.725
1169	835.990552	833.595843			5.73
1170	836.408415	834.017366			5.735
1171	836.826229	834.438832			5.74
1172	837.243993	834.86024			5.745
1173	837.661707	835.28159			5.75
1174	838.079372	835.702883			5.755
1175	838.496988	836.124119			5.76
1176	838.914554	836.545297			5.765
1177	839.332071	836.966419			5.77
1178	839.749539	837.387483			5.775
1179	840.166957	837.80849			5.78
1180	840.584327	838.22944			5.785
1181	841.001647	838.650333			5.79
1182	841.418919	839.071169			5.795
1183	841.836141	839.491948			5.8
1184	842.253315	839.912671			5.805

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1185	842.67044	840.333337			5.81
1186	843.087516	840.753947			5.815
1187	843.504543	841.1745			5.82
1188	843.921522	841.594997			5.825
1189	844.338452	842.015438			5.83
1190	844.755333	842.435822			5.835
1191	845.172166	842.85615			5.84
1192	845.588951	843.276422			5.845
1193	846.005686	843.696638			5.85
1194	846.422374	844.116798			5.855
1195	846.839013	844.536903			5.86
1196	847.255604	844.956951			5.865
1197	847.672147	845.376944			5.87
1198	848.088642	845.796881			5.875
1199	848.505088	846.216762			5.88
1200	848.921487	846.636588			5.885
1201	849.337837	847.056359			5.89
1202	849.754139	847.476074			5.895
1203	850.170394	847.895734			5.9
1204	850.5866	848.315339			5.905
1205	851.002759	848.734888			5.91
1206	851.41887	849.154382			5.915
1207	851.834933	849.573822			5.92
1208	852.250949	849.993206			5.925
1209	852.666917	850.412536			5.93
1210	853.082837	850.831811			5.935
1211	853.49871	851.251031			5.94
1212	853.914535	851.670196			5.945
1213	854.330313	852.089307			5.95
1214	854.746044	852.508363			5.955
1215	855.161727	852.927365			5.96
1216	855.577363	853.346313			5.965
1217	855.992952	853.765206			5.97
1218	856.408493	854.184045			5.975
1219	856.823987	854.60283			5.98
1220	857.239435	855.02156			5.985
1221	857.654835	855.440237			5.99
1222	858.070188	855.858859			5.995
1223	858.485494	856.277428			6
1224	858.900754	856.695943			6.005
1225	859.315966	857.114404			6.01

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1226	859.731132	857.532811			6.015
1227	860.146251	857.951165			6.02
1228	860.561323	858.369465			6.025
1229	860.976348	858.787712			6.03
1230	861.391327	859.205905			6.035
1231	861.806259	859.624045			6.04
1232	862.221145	860.042131			6.045
1233	862.635984	860.460164			6.05
1234	863.050777	860.878144			6.055
1235	863.465524	861.296071			6.06
1236	863.880224	861.713945			6.065
1237	864.294878	862.131766			6.07
1238	864.709485	862.549534			6.075
1239	865.124046	862.967249			6.08
1240	865.538561	863.384911			6.085
1241	865.95303	863.802521			6.09
1242	866.367453	864.220078			6.095
1243	866.78183	864.637582			6.1
1244	867.196161	865.055034			6.105
1245	867.610446	865.472433			6.11
1246	868.024685	865.88978			6.115
1247	868.438879	866.307074			6.12
1248	868.853026	866.724317			6.125
1249	869.267128	867.141506			6.13
1250	869.681184	867.558644			6.135
1251	870.095194	867.97573			6.14
1252	870.509158	868.392764			6.145
1253	870.923077	868.809745			6.15
1254	871.336951	869.226675			6.155
1255	871.750779	869.643553			6.16
1256	872.164562	870.060379			6.165
1257	872.578299	870.477154			6.17
1258	872.99199	870.893876			6.175
1259	873.405637	871.310547			6.18
1260	873.819238	871.727167			6.185
1261	874.232794	872.143735			6.19
1262	874.646305	872.560252			6.195
1263	875.05977	872.976717			6.2
1264	875.473191	873.393131			6.205
1265	875.886566	873.809493			6.21
1266	876.299897	874.225805			6.215

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1267	876.713182	874.642065			6.22
1268	877.126423	875.058275			6.225
1269	877.539618	875.474433			6.23
1270	877.952769	875.89054			6.235
1271	878.365875	876.306597			6.24
1272	878.778936	876.722602			6.245
1273	879.191952	877.138557			6.25
1274	879.604924	877.554461			6.255
1275	880.017851	877.970315			6.26
1276	880.430734	878.386118			6.265
1277	880.843572	878.80187			6.27
1278	881.256365	879.217572			6.275
1279	881.669114	879.633223			6.28
1280	882.081819	880.048824			6.285
1281	882.494479	880.464375			6.29
1282	882.907095	880.879875			6.295
1283	883.319666	881.295326			6.3
1284	883.732193	881.710726			6.305
1285	884.144676	882.126076			6.31
1286	884.557115	882.541376			6.315
1287	884.96951	882.956626			6.32
1288	885.38186	883.371826			6.325
1289	885.794167	883.786976			6.33
1290	886.206429	884.202077			6.335
1291	886.618648	884.617128			6.34
1292	887.030822	885.032129			6.345
1293	887.442953	885.44708			6.35
1294	887.855039	885.861982			6.355
1295	888.267082	886.276834			6.36
1296	888.679081	886.691637			6.365
1297	889.091037	887.106391			6.37
1298	889.502948	887.521095			6.375
1299	889.914817	887.935749			6.38
1300	890.326641	888.350355			6.385
1301	890.738422	888.764911			6.39
1302	891.150159	889.179418			6.395
1303	891.561853	889.593877			6.4
1304	891.973503	890.008286			6.405
1305	892.38511	890.422646			6.41
1306	892.796673	890.836957			6.415
1307	893.208193	891.251219			6.42

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1308	893.61967	891.665433			6.425
1309	894.031104	892.079597			6.43
1310	894.442494	892.493713			6.435
1311	894.853841	892.907781			6.44
1312	895.265145	893.321799			6.445
1313	895.676406	893.73577			6.45
1314	896.087624	894.149691			6.455
1315	896.498798	894.563565			6.46
1316	896.90993	894.97739			6.465
1317	897.321019	895.391166			6.47
1318	897.732064	895.804894			6.475
1319	898.143067	896.218574			6.48
1320	898.554027	896.632206			6.485
1321	898.964945	897.04579			6.49
1322	899.375819	897.459325			6.495
1323	899.786651	897.872813			6.5
1324	900.19744	898.286253			6.505
1325	900.608186	898.699644			6.51
1326	901.01889	899.112988			6.515
1327	901.429551	899.526284			6.52
1328	901.840169	899.939532			6.525
1329	902.250746	900.352733			6.53
1330	902.661279	900.765885			6.535
1331	903.07177	901.178991			6.54
1332	903.482219	901.592048			6.545
1333	903.892625	902.005058			6.55
1334	904.302989	902.418021			6.555
1335	904.713311	902.830936			6.56
1336	905.123591	903.243804			6.565
1337	905.533828	903.656625			6.57
1338	905.944023	904.069398			6.575
1339	906.354176	904.482124			6.58
1340	906.764287	904.894803			6.585
1341	907.174355	905.307434			6.59
1342	907.584382	905.720019			6.595
1343	907.994367	906.132557			6.6
1344	908.404309	906.545047			6.605
1345	908.81421	906.957491			6.61
1346	909.224069	907.369888			6.615
1347	909.633886	907.782238			6.62
1348	910.043661	908.194541			6.625

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1349	910.453394	908.606798			6.63
1350	910.863086	909.019007			6.635
1351	911.272736	909.431171			6.64
1352	911.682344	909.843287			6.645
1353	912.091911	910.255357			6.65
1354	912.501436	910.667381			6.655
1355	912.910919	911.079358			6.66
1356	913.320361	911.491289			6.665
1357	913.729761	911.903173			6.67
1358	914.13912	912.315011			6.675
1359	914.548437	912.726803			6.68
1360	914.957713	913.138549			6.685
1361	915.366948	913.550248			6.69
1362	915.776141	913.961901			6.695
1363	916.185293	914.373509			6.7
1364	916.594404	914.78507			6.705
1365	917.003473	915.196585			6.71
1366	917.412502	915.608054			6.715
1367	917.821489	916.019478			6.72
1368	918.230435	916.430856			6.725
1369	918.63934	916.842187			6.73
1370	919.048204	917.253473			6.735
1371	919.457026	917.664714			6.74
1372	919.865808	918.075909			6.745
1373	920.274549	918.487058			6.75
1374	920.683249	918.898161			6.755
1375	921.091908	919.309219			6.76
1376	921.500526	919.720232			6.765
1377	921.909103	920.131199			6.77
1378	922.31764	920.542121			6.775
1379	922.726136	920.952997			6.78
1380	923.134591	921.363828			6.785
1381	923.543005	921.774614			6.79
1382	923.951379	922.185355			6.795
1383	924.359712	922.596051			6.8
1384	924.768004	923.006701			6.805
1385	925.176256	923.417306			6.81
1386	925.584468	923.827867			6.815
1387	925.992638	924.238382			6.82
1388	926.400769	924.648853			6.825
1389	926.808859	925.059278			6.83

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1390	927.216908	925.469659			6.835
1391	927.624918	925.879995			6.84
1392	928.032886	926.290286			6.845
1393	928.440815	926.700532			6.85
1394	928.848703	927.110734			6.855
1395	929.256551	927.520891			6.86
1396	929.664359	927.931004			6.865
1397	930.072127	928.341072			6.87
1398	930.479855	928.751095			6.875
1399	930.887542	929.161074			6.88
1400	931.295189	929.571009			6.885
1401	931.702797	929.980899			6.89
1402	932.110364	930.390745			6.895
1403	932.517891	930.800546			6.9
1404	932.925379	931.210304			6.905
1405	933.332826	931.620017			6.91
1406	933.740234	932.029686			6.915
1407	934.147601	932.439311			6.92
1408	934.554929	932.848892			6.925
1409	934.962217	933.258429			6.93
1410	935.369466	933.667921			6.935
1411	935.776674	934.07737			6.94
1412	936.183843	934.486775			6.945
1413	936.590973	934.896136			6.95
1414	936.998062	935.305453			6.955
1415	937.405112	935.714727			6.96
1416	937.812123	936.123957			6.965
1417	938.219093	936.533143			6.97
1418	938.626025	936.942285			6.975
1419	939.032917	937.351384			6.98
1420	939.439769	937.760439			6.985
1421	939.846582	938.16945			6.99
1422	940.253356	938.578418			6.995
1423	940.66009	938.987343			7
1424	941.066785	939.396224			7.005
1425	941.473441	939.805062			7.01
1426	941.880057	940.213857			7.015
1427	942.286634	940.622608			7.02
1428	942.693172	941.031316			7.025
1429	943.099671	941.439981			7.03
1430	943.50613	941.848602			7.035

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1431	943.912551	942.257181			7.04
1432	944.318932	942.665716			7.045
1433	944.725275	943.074208			7.05
1434	945.131578	943.482658			7.055
1435	945.537842	943.891064			7.06
1436	945.944067	944.299427			7.065
1437	946.350254	944.707748			7.07
1438	946.756401	945.116025			7.075
1439	947.16251	945.52426			7.08
1440	947.56858	945.932452			7.085
1441	947.974611	946.340601			7.09
1442	948.380603	946.748708			7.095
1443	948.786556	947.156772			7.1
1444	949.192471	947.564793			7.105
1445	949.598347	947.972772			7.11
1446	950.004184	948.380708			7.115
1447	950.409982	948.788602			7.12
1448	950.815742	949.196453			7.125
1449	951.221464	949.604261			7.13
1450	951.627147	950.012028			7.135
1451	952.032791	950.419752			7.14
1452	952.438397	950.827433			7.145
1453	952.843964	951.235073			7.15
1454	953.249493	951.64267			7.155
1455	953.654983	952.050225			7.16
1456	954.060435	952.457737			7.165
1457	954.465849	952.865208			7.17
1458	954.871225	953.272637			7.175
1459	955.276562	953.680023			7.18
1460	955.68186	954.087368			7.185
1461	956.087121	954.49467			7.19
1462	956.492343	954.901931			7.195
1463	956.897527	955.309149			7.2
1464	957.302673	955.716326			7.205
1465	957.707781	956.123461			7.21
1466	958.112851	956.530554			7.215
1467	958.517883	956.937605			7.22
1468	958.922876	957.344615			7.225
1469	959.327832	957.751583			7.23
1470	959.732749	958.158509			7.235
1471	960.137629	958.565394			7.24

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1472	960.542471	958.972237			7.245
1473	960.947275	959.379039			7.25
1474	961.35204	959.785799			7.255
1475	961.756769	960.192517			7.26
1476	962.161459	960.599194			7.265
1477	962.566111	961.00583			7.27
1478	962.970726	961.412425			7.275
1479	963.375303	961.818978			7.28
1480	963.779842	962.22549			7.285
1481	964.184343	962.63196			7.29
1482	964.588807	963.038389			7.295
1483	964.993233	963.444778			7.3
1484	965.397622	963.851125			7.305
1485	965.801973	964.257431			7.31
1486	966.206286	964.663695			7.315
1487	966.610562	965.069919			7.32
1488	967.014801	965.476102			7.325
1489	967.419001	965.882244			7.33
1490	967.823165	966.288345			7.335
1491	968.227291	966.694405			7.34
1492	968.63138	967.100424			7.345
1493	969.035431	967.506402			7.35
1494	969.439445	967.91234			7.355
1495	969.843422	968.318236			7.36
1496	970.247361	968.724092			7.365
1497	970.651263	969.129908			7.37
1498	971.055128	969.535682			7.375
1499	971.458955	969.941416			7.38
1500	971.862746	970.34711			7.385
1501	972.266499	970.752763			7.39
1502	972.670215	971.158375			7.395
1503	973.073894	971.563947			7.4
1504	973.477536	971.969479			7.405
1505	973.881141	972.37497			7.41
1506	974.284709	972.78042			7.415
1507	974.68824	973.185831			7.42
1508	975.091734	973.591201			7.425
1509	975.495191	973.99653			7.43
1510	975.898611	974.40182			7.435
1511	976.301994	974.807069			7.44
1512	976.705341	975.212278			7.445

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1513	977.10865	975.617447			7.45
1514	977.511923	976.022576			7.455
1515	977.915159	976.427665			7.46
1516	978.318358	976.832714			7.465
1517	978.72152	977.237722			7.47
1518	979.124646	977.642691			7.475
1519	979.527735	978.04762			7.48
1520	979.930787	978.452509			7.485
1521	980.333803	978.857358			7.49
1522	980.736782	979.262167			7.495
1523	981.139724	979.666936			7.5
1524	981.54263	980.071666			7.505
1525	981.945499	980.476356			7.51
1526	982.348332	980.881006			7.515
1527	982.751129	981.285616			7.52
1528	983.153889	981.690187			7.525
1529	983.556612	982.094718			7.53
1530	983.959299	982.49921			7.535
1531	984.36195	982.903662			7.54
1532	984.764564	983.308074			7.545
1533	985.167142	983.712447			7.55
1534	985.569684	984.116781			7.555
1535	985.972189	984.521075			7.56
1536	986.374658	984.92533			7.565
1537	986.777091	985.329545			7.57
1538	987.179487	985.733721			7.575
1539	987.581848	986.137858			7.58
1540	987.984172	986.541955			7.585
1541	988.38646	986.946013			7.59
1542	988.788712	987.350032			7.595
1543	989.190928	987.754012			7.6
1544	989.593108	988.157953			7.605
1545	989.995252	988.561855			7.61
1546	990.39736	988.965717			7.615
1547	990.799432	989.369541			7.62
1548	991.201467	989.773325			7.625
1549	991.603467	990.177071			7.63
1550	992.005431	990.580777			7.635
1551	992.407359	990.984445			7.64
1552	992.809252	991.388074			7.645
1553	993.211108	991.791663			7.65

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1554	993.612929	992.195215			7.655
1555	994.014713	992.598727			7.66
1556	994.416462	993.0022			7.665
1557	994.818175	993.405635			7.67
1558	995.219853	993.809031			7.675
1559	995.621495	994.212388			7.68
1560	996.023101	994.615707			7.685
1561	996.424671	995.018987			7.69
1562	996.826206	995.422229			7.695
1563	997.227705	995.825432			7.7
1564	997.629169	996.228596			7.705
1565	998.030597	996.631722			7.71
1566	998.431989	997.034809			7.715
1567	998.833346	997.437859			7.72
1568	999.234668	997.840869			7.725
1569	999.635954	998.243841			7.73
1570	1000.0372	998.646775			7.735
1571	1000.43842	999.049671			7.74
1572	1000.8396	999.452528			7.745
1573	1001.24074	999.855347			7.75
1574	1001.64185	1000.25813			7.755
1575	1002.04293	1000.66087			7.76
1576	1002.44396	1001.06358			7.765
1577	1002.84497	1001.46624			7.77
1578	1003.24594	1001.86887			7.775
1579	1003.64687	1002.27146			7.78
1580	1004.04776	1002.67401			7.785
1581	1004.44863	1003.07653			7.79
1582	1004.84945	1003.479			7.795
1583	1005.25025	1003.88144			7.8
1584	1005.651	1004.28384			7.805
1585	1006.05172	1004.6862			7.81
1586	1006.45241	1005.08853			7.815
1587	1006.85306	1005.49081			7.82
1588	1007.25368	1005.89306			7.825
1589	1007.65426	1006.29527			7.83
1590	1008.05481	1006.69745			7.835
1591	1008.45532	1007.09958			7.84
1592	1008.85579	1007.50168			7.845
1593	1009.25624	1007.90374			7.85
1594	1009.65664	1008.30576			7.855

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1595	1010.05701	1008.70775			7.86
1596	1010.45735	1009.10969			7.865
1597	1010.85765	1009.5116			7.87
1598	1011.25792	1009.91348			7.875
1599	1011.65815	1010.31531			7.88
1600	1012.05835	1010.71711			7.885
1601	1012.45851	1011.11887			7.89
1602	1012.85864	1011.52059			7.895
1603	1013.25873	1011.92227			7.9
1604	1013.65879	1012.32392			7.905
1605	1014.05882	1012.72553			7.91
1606	1014.45881	1013.1271			7.915
1607	1014.85876	1013.52864			7.92
1608	1015.25868	1013.93014			7.925
1609	1015.65857	1014.3316			7.93
1610	1016.05842	1014.73302			7.935
1611	1016.45824	1015.13441			7.94
1612	1016.85802	1015.53576			7.945
1613	1017.25777	1015.93707			7.95
1614	1017.65748	1016.33835			7.955
1615	1018.05716	1016.73959			7.96
1616	1018.4568	1017.14079			7.965
1617	1018.85641	1017.54195			7.97
1618	1019.25599	1017.94308			7.975
1619	1019.65553	1018.34417			7.98
1620	1020.05504	1018.74522			7.985
1621	1020.45451	1019.14624			7.99
1622	1020.85395	1019.54722			7.995
1623	1021.25335	1019.94816			8
1624	1021.65272	1020.34907			8.005
1625	1022.05206	1020.74994			8.01
1626	1022.45136	1021.15077			8.015
1627	1022.85062	1021.55156			8.02
1628	1023.24986	1021.95232			8.025
1629	1023.64906	1022.35305			8.03
1630	1024.04822	1022.75373			8.035
1631	1024.44735	1023.15438			8.04
1632	1024.84645	1023.55499			8.045
1633	1025.24551	1023.95557			8.05
1634	1025.64454	1024.35611			8.055
1635	1026.04353	1024.75661			8.06

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1636	1026.44249	1025.15708			8.065
1637	1026.84142	1025.55751			8.07
1638	1027.24031	1025.9579			8.075
1639	1027.63917	1026.35826			8.08
1640	1028.03799	1026.75858			8.085
1641	1028.43678	1027.15886			8.09
1642	1028.83554	1027.55911			8.095
1643	1029.23426	1027.95932			8.1
1644	1029.63295	1028.35949			8.105
1645	1030.03161	1028.75963			8.11
1646	1030.43023	1029.15973			8.115
1647	1030.82882	1029.5598			8.12
1648	1031.22737	1029.95983			8.125
1649	1031.62589	1030.35983			8.13
1650	1032.02438	1030.75978			8.135
1651	1032.42283	1031.1597			8.14
1652	1032.82125	1031.55959			8.145
1653	1033.21964	1031.95944			8.15
1654	1033.61799	1032.35925			8.155
1655	1034.0163	1032.75903			8.16
1656	1034.41459	1033.15877			8.165
1657	1034.81284	1033.55848			8.17
1658	1035.21106	1033.95815			8.175
1659	1035.60924	1034.35778			8.18
1660	1036.00739	1034.75738			8.185
1661	1036.40551	1035.15694			8.19
1662	1036.80359	1035.55647			8.195
1663	1037.20164	1035.95596			8.2
1664	1037.59966	1036.35541			8.205
1665	1037.99764	1036.75483			8.21
1666	1038.39559	1037.15421			8.215
1667	1038.79351	1037.55356			8.22
1668	1039.19139	1037.95287			8.225
1669	1039.58924	1038.35215			8.23
1670	1039.98706	1038.75139			8.235
1671	1040.38484	1039.15059			8.24
1672	1040.78259	1039.54976			8.245
1673	1041.18031	1039.94889			8.25
1674	1041.57799	1040.34799			8.255
1675	1041.97564	1040.74705			8.26
1676	1042.37326	1041.14608			8.265

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1677	1042.77084	1041.54507			8.27
1678	1043.16839	1041.94403			8.275
1679	1043.56591	1042.34295			8.28
1680	1043.96339	1042.74183			8.285
1681	1044.36084	1043.14068			8.29
1682	1044.75826	1043.5395			8.295
1683	1045.15565	1043.93828			8.3
1684	1045.553	1044.33702			8.305
1685	1045.95032	1044.73573			8.31
1686	1046.3476	1045.1344			8.315
1687	1046.74485	1045.53304			8.32
1688	1047.14207	1045.93164			8.325
1689	1047.53926	1046.33021			8.33
1690	1047.93641	1046.72874			8.335
1691	1048.33354	1047.12724			8.34
1692	1048.73062	1047.5257			8.345
1693	1049.12768	1047.92413			8.35
1694	1049.5247	1048.32252			8.355
1695	1049.92169	1048.72088			8.36
1696	1050.31865	1049.1192			8.365
1697	1050.71557	1049.51749			8.37
1698	1051.11246	1049.91574			8.375
1699	1051.50932	1050.31396			8.38
1700	1051.90615	1050.71214			8.385
1701	1052.30294	1051.11029			8.39
1702	1052.6997	1051.5084			8.395
1703	1053.09643	1051.90648			8.4
1704	1053.49312	1052.30452			8.405
1705	1053.88978	1052.70253			8.41
1706	1054.28641	1053.1005			8.415
1707	1054.68301	1053.49844			8.42
1708	1055.07958	1053.89634			8.425
1709	1055.47611	1054.29421			8.43
1710	1055.87261	1054.69204			8.435
1711	1056.26907	1055.08984			8.44
1712	1056.66551	1055.48761			8.445
1713	1057.06191	1055.88534			8.45
1714	1057.45828	1056.28303			8.455
1715	1057.85461	1056.68069			8.46
1716	1058.25092	1057.07832			8.465
1717	1058.64719	1057.47591			8.47

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1718	1059.04343	1057.87347			8.475
1719	1059.43964	1058.27099			8.48
1720	1059.83581	1058.66848			8.485
1721	1060.23195	1059.06593			8.49
1722	1060.62806	1059.46335			8.495
1723	1061.02414	1059.86074			8.5
1724	1061.42018	1060.25809			8.505
1725	1061.8162	1060.6554			8.51
1726	1062.21218	1061.05269			8.515
1727	1062.60813	1061.44993			8.52
1728	1063.00404	1061.84715			8.525
1729	1063.39993	1062.24432			8.53
1730	1063.79578	1062.64147			8.535
1731	1064.1916	1063.03858			8.54
1732	1064.58738	1063.43566			8.545
1733	1064.98314	1063.8327			8.55
1734	1065.37886	1064.22971			8.555
1735	1065.77455	1064.62668			8.56
1736	1066.17021	1065.02362			8.565
1737	1066.56584	1065.42052			8.57
1738	1066.96143	1065.8174			8.575
1739	1067.357	1066.21423			8.58
1740	1067.75253	1066.61104			8.585
1741	1068.14802	1067.00781			8.59
1742	1068.54349	1067.40454			8.595
1743	1068.93893	1067.80124			8.6
1744	1069.33433	1068.19791			8.605
1745	1069.7297	1068.59454			8.61
1746	1070.12504	1068.99114			8.615
1747	1070.52034	1069.38771			8.62
1748	1070.91562	1069.78424			8.625
1749	1071.31086	1070.18074			8.63
1750	1071.70607	1070.5772			8.635
1751	1072.10125	1070.97363			8.64
1752	1072.4964	1071.37003			8.645
1753	1072.89152	1071.76639			8.65
1754	1073.2866	1072.16272			8.655
1755	1073.68165	1072.55902			8.66
1756	1074.07667	1072.95528			8.665
1757	1074.47166	1073.35151			8.67
1758	1074.86662	1073.7477			8.675

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1759	1075.26154	1074.14386			8.68
1760	1075.65644	1074.53999			8.685
1761	1076.0513	1074.93608			8.69
1762	1076.44613	1075.33214			8.695
1763	1076.84093	1075.72817			8.7
1764	1077.23569	1076.12416			8.705
1765	1077.63043	1076.52012			8.71
1766	1078.02513	1076.91604			8.715
1767	1078.4198	1077.31194			8.72
1768	1078.81444	1077.70779			8.725
1769	1079.20905	1078.10362			8.73
1770	1079.60363	1078.49941			8.735
1771	1079.99818	1078.89517			8.74
1772	1080.39269	1079.2909			8.745
1773	1080.78717	1079.68659			8.75
1774	1081.18163	1080.08225			8.755
1775	1081.57605	1080.47787			8.76
1776	1081.97043	1080.87346			8.765
1777	1082.36479	1081.26902			8.77
1778	1082.75912	1081.66455			8.775
1779	1083.15341	1082.06004			8.78
1780	1083.54767	1082.4555			8.785
1781	1083.94191	1082.85092			8.79
1782	1084.33611	1083.24632			8.795
1783	1084.73028	1083.64168			8.8
1784	1085.12441	1084.037			8.805
1785	1085.51852	1084.43229			8.81
1786	1085.91259	1084.82755			8.815
1787	1086.30664	1085.22278			8.82
1788	1086.70065	1085.61798			8.825
1789	1087.09463	1086.01314			8.83
1790	1087.48858	1086.40826			8.835
1791	1087.8825	1086.80336			8.84
1792	1088.27639	1087.19842			8.845
1793	1088.67025	1087.59345			8.85
1794	1089.06382	1087.98845			8.855
1795	1089.45555	1088.38332			8.86
1796	1089.84569	1088.77743			8.865
1797	1090.23395	1089.17047			8.87
1798	1090.61034	1089.56214			8.875
1799	1090.98035	1089.94856			8.88

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1800	1091.34697	1090.3293			8.885
1801	1091.70957	1090.70518			8.89
1802	1092.06895	1091.07651			8.895
1803	1092.426	1091.44375			8.9
1804	1092.78088	1091.80756			8.905
1805	1093.13383	1092.1684			8.91
1806	1093.48857	1092.52663			8.915
1807	1093.84789	1092.88389			8.92
1808	1094.20715	1093.24224			8.925
1809	1094.56662	1093.60125			8.93
1810	1094.92617	1093.96076			8.935
1811	1095.28573	1094.32061			8.94
1812	1095.64524	1094.68068			8.945
1813	1096.00464	1095.04087			8.95
1814	1096.3639	1095.4011			8.955
1815	1096.72299	1095.76129			8.96
1816	1097.08186	1096.12139			8.965
1817	1097.44051	1096.48136			8.97
1818	1097.79892	1096.84117			8.975
1819	1098.15706	1097.20077			8.98
1820	1098.51493	1097.56015			8.985
1821	1098.87252	1097.91929			8.99
1822	1099.22981	1098.27817			8.995
1823	1099.58681	1098.63678			9
1824	1099.94351	1098.9951			9.005
1825	1100.29991	1099.35313			9.01
1826	1100.65599	1099.71087			9.015
1827	1101.01177	1100.06831			9.02
1828	1101.36723	1100.42543			9.025
1829	1101.72238	1100.78225			9.03
1830	1102.07722	1101.13876			9.035
1831	1102.43174	1101.49495			9.04
1832	1102.78595	1101.85082			9.045
1833	1103.13984	1102.20638			9.05
1834	1103.49342	1102.56162			9.055
1835	1103.84668	1102.91655			9.06
1836	1104.19963	1103.27115			9.065
1837	1104.55226	1103.62544			9.07
1838	1104.90458	1103.97941			9.075
1839	1105.25659	1104.33306			9.08
1840	1105.60828	1104.6864			9.085

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1841	1105.95967	1105.03942			9.09
1842	1106.31074	1105.39213			9.095
1843	1106.6615	1105.74452			9.1
1844	1107.01195	1106.09659			9.105
1845	1107.36209	1106.44835			9.11
1846	1107.71193	1106.7998			9.115
1847	1108.06146	1107.15093			9.12
1848	1108.41068	1107.50176			9.125
1849	1108.75959	1107.85227			9.13
1850	1109.1082	1108.20247			9.135
1851	1109.45651	1108.55237			9.14
1852	1109.80451	1108.90195			9.145
1853	1110.15221	1109.25123			9.15
1854	1110.49961	1109.6002			9.155
1855	1110.8467	1109.94886			9.16
1856	1111.1935	1110.29722			9.165
1857	1111.53999	1110.64527			9.17
1858	1111.88619	1110.99302			9.175
1859	1112.23215	1111.34047			9.18
1860	1112.5779	1111.68764			9.185
1861	1112.92343	1112.03455			9.19
1862	1113.26877	1112.38123			9.195
1863	1113.61442	1112.72768			9.2
1864	1113.96013	1113.07412			9.205
1865	1114.30581	1113.42057			9.21
1866	1114.65144	1113.76702			9.215
1867	1114.99702	1114.11344			9.22
1868	1115.34253	1114.45984			9.225
1869	1115.68798	1114.80618			9.23
1870	1116.03335	1115.15247			9.235
1871	1116.37865	1115.4987			9.24
1872	1116.72387	1115.84486			9.245
1873	1117.069	1116.19094			9.25
1874	1117.41405	1116.53695			9.255
1875	1117.75901	1116.88288			9.26
1876	1118.10389	1117.22872			9.265
1877	1118.44868	1117.57448			9.27
1878	1118.79338	1117.92015			9.275
1879	1119.13799	1118.26573			9.28
1880	1119.4825	1118.61122			9.285
1881	1119.82693	1118.95662			9.29

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1882	1120.17127	1119.30193			9.295
1883	1120.51551	1119.64715			9.3
1884	1120.85966	1119.99227			9.305
1885	1121.20372	1120.33731			9.31
1886	1121.54769	1120.68224			9.315
1887	1121.89156	1121.02709			9.32
1888	1122.23534	1121.37184			9.325
1889	1122.57903	1121.7165			9.33
1890	1122.92263	1122.06106			9.335
1891	1123.26614	1122.40553			9.34
1892	1123.60955	1122.74991			9.345
1893	1123.95287	1123.09419			9.35
1894	1124.2961	1123.43838			9.355
1895	1124.63923	1123.78248			9.36
1896	1124.98228	1124.12648			9.365
1897	1125.32523	1124.47039			9.37
1898	1125.66809	1124.8142			9.375
1899	1126.01086	1125.15793			9.38
1900	1126.35353	1125.50155			9.385
1901	1126.69612	1125.84509			9.39
1902	1127.03861	1126.18853			9.395
1903	1127.38101	1126.53188			9.4
1904	1127.72332	1126.87513			9.405
1905	1128.06554	1127.21829			9.41
1906	1128.40766	1127.56136			9.415
1907	1128.7497	1127.90434			9.42
1908	1129.09164	1128.24722			9.425
1909	1129.43349	1128.59001			9.43
1910	1129.77525	1128.9327			9.435
1911	1130.11692	1129.27531			9.44
1912	1130.4585	1129.61782			9.445
1913	1130.79999	1129.96024			9.45
1914	1131.14139	1130.30257			9.455
1915	1131.48269	1130.6448			9.46
1916	1131.82391	1130.98694			9.465
1917	1132.16498	1131.32899			9.47
1918	1132.50588	1131.67093			9.475
1919	1132.84658	1132.01273			9.48
1920	1133.18708	1132.35436			9.485
1921	1133.52696	1132.69582			9.49
1922	1133.86619	1133.03691			9.495

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1923	1134.20503	1133.37752			9.5
1924	1134.54348	1133.71769			9.505
1925	1134.88156	1134.05743			9.51
1926	1135.21927	1134.39677			9.515
1927	1135.55662	1134.73571			9.52
1928	1135.89363	1135.07428			9.525
1929	1136.2303	1135.41249			9.53
1930	1136.56662	1135.75034			9.535
1931	1136.90261	1136.08783			9.54
1932	1137.23827	1136.42498			9.545
1933	1137.57361	1136.76179			9.55
1934	1137.90861	1137.09827			9.555
1935	1138.2433	1137.43441			9.56
1936	1138.57766	1137.77022			9.565
1937	1138.91171	1138.1057			9.57
1938	1139.24544	1138.44086			9.575
1939	1139.57885	1138.7757			9.58
1940	1139.91195	1139.11022			9.585
1941	1140.24474	1139.44442			9.59
1942	1140.57721	1139.77829			9.595
1943	1140.90937	1140.11186			9.6
1944	1141.24123	1140.44511			9.605
1945	1141.57277	1140.77804			9.61
1946	1141.90401	1141.11066			9.615
1947	1142.23494	1141.44297			9.62
1948	1142.56556	1141.77497			9.625
1949	1142.89588	1142.10666			9.63
1950	1143.2259	1142.43804			9.635
1951	1143.55561	1142.76911			9.64
1952	1143.88502	1143.09988			9.645
1953	1144.21413	1143.43034			9.65
1954	1144.54293	1143.76049			9.655
1955	1144.87144	1144.09034			9.66
1956	1145.19965	1144.41989			9.665
1957	1145.52756	1144.74913			9.67
1958	1145.85518	1145.07807			9.675
1959	1146.18249	1145.40672			9.68
1960	1146.50951	1145.73506			9.685
1961	1146.83624	1146.0631			9.69
1962	1147.16267	1146.39085			9.695
1963	1147.48881	1146.71829			9.7

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
1964	1147.81466	1147.04545			9.705
1965	1148.14022	1147.3723			9.71
1966	1148.46548	1147.69886			9.715
1967	1148.79046	1148.02513			9.72
1968	1149.11514	1148.3511			9.725
1969	1149.43954	1148.67678			9.73
1970	1149.76365	1149.00217			9.735
1971	1150.08747	1149.32726			9.74
1972	1150.41101	1149.65207			9.745
1973	1150.73426	1149.97659			9.75
1974	1151.05722	1150.30082			9.755
1975	1151.37991	1150.62476			9.76
1976	1151.70231	1150.94841			9.765
1977	1152.02443	1151.27178			9.77
1978	1152.34636	1151.59486			9.775
1979	1152.66809	1151.9177			9.78
1980	1152.98965	1152.24031			9.785
1981	1153.31104	1152.56272			9.79
1982	1153.63291	1152.88494			9.795
1983	1153.95486	1153.20727			9.8
1984	1154.27682	1153.52967			9.805
1985	1154.59881	1153.85214			9.81
1986	1154.92079	1154.17465			9.815
1987	1155.24278	1154.49718			9.82
1988	1155.56474	1154.81972			9.825
1989	1155.88669	1155.14227			9.83
1990	1156.20862	1155.4648			9.835
1991	1156.53052	1155.78732			9.84
1992	1156.85239	1156.10982			9.845
1993	1157.17422	1156.4323			9.85
1994	1157.49602	1156.75475			9.855
1995	1157.81779	1157.07716			9.86
1996	1158.13952	1157.39954			9.865
1997	1158.46121	1157.72189			9.87
1998	1158.78286	1158.04419			9.875
1999	1159.10446	1158.36646			9.88
2000	1159.42603	1158.68869			9.885
2001	1159.74756	1159.01088			9.89
2002	1160.06905	1159.33303			9.895
2003	1160.39049	1159.65513			9.9
2004	1160.71189	1159.9772			9.905

Attachment 7

	AI	AJ	AK	AL	AM
20					
21	Channel Box CP Temp	Rack CP Temp			Elapsed Time
22	K	K			Hr
2005	1161.03326	1160.29922			9.91
2006	1161.35457	1160.6212			9.915
2007	1161.67585	1160.94314			9.92
2008	1161.99708	1161.26503			9.925
2009	1162.31828	1161.58688			9.93
2010	1162.63943	1161.90869			9.935
2011	1162.96053	1162.23045			9.94
2012	1163.2816	1162.55217			9.945
2013	1163.60262	1162.87385			9.95
2014	1163.9236	1163.19549			9.955
2015	1164.24453	1163.51708			9.96
2016	1164.56543	1163.83863			9.965
2017	1164.88628	1164.16013			9.97
2018	1165.20709	1164.48159			9.975
2019	1165.52786	1164.80301			9.98
2020	1165.84858	1165.12439			9.985
2021	1166.16926	1165.44572			9.99
2022	1166.4899	1165.76701			9.995
2023	1166.8105	1166.08825			10
2024	1167.13105	1166.40945			10.005

	AN	AO	AP	AQ
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19	$x = \frac{\$O\$5 * \$O\$4^2 * \text{EXP}(\$O\$4 / \text{AF32})}{(\text{AF24}^2 * (\text{EXP}(\$O\$4 / \text{AF24}) - 1)^2)}$	$x = \$O\$6 * \text{AF24}$	$x = \frac{\$O\$2 * \$O\$7 * \$O\$8 * \text{EXP}(-\$O\$8 / (\$O\$3 * \text{AF24}))}{(2 * \$O\$3 * \text{AF24}^2)}$	$x = \text{SUM}(\text{AN24}:\text{AP24})$
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
23	2.369E+02	7.826E+00	4.217E-19	244.708
24	2.371E+02	7.841E+00	4.732E-19	244.935
25	2.373E+02	7.857E+00	5.304E-19	245.160
26	2.375E+02	7.873E+00	5.942E-19	245.384
27	2.377E+02	7.889E+00	6.651E-19	245.606
28	2.379E+02	7.904E+00	7.440E-19	245.826
29	2.381E+02	7.920E+00	8.316E-19	246.045
30	2.383E+02	7.936E+00	9.288E-19	246.262
31	2.385E+02	7.951E+00	1.037E-18	246.478
32	2.387E+02	7.967E+00	1.156E-18	246.692
33	2.389E+02	7.982E+00	1.289E-18	246.905
34	2.391E+02	7.998E+00	1.435E-18	247.116
35	2.393E+02	8.013E+00	1.597E-18	247.326
36	2.395E+02	8.029E+00	1.777E-18	247.534

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
37	2.397E+02	8.044E+00	1.975E-18	247.741
38	2.399E+02	8.059E+00	2.194E-18	247.947
39	2.401E+02	8.075E+00	2.435E-18	248.151
40	2.403E+02	8.090E+00	2.702E-18	248.354
41	2.405E+02	8.105E+00	2.995E-18	248.556
42	2.406E+02	8.120E+00	3.319E-18	248.756
43	2.408E+02	8.135E+00	3.675E-18	248.955
44	2.410E+02	8.150E+00	4.067E-18	249.153
45	2.412E+02	8.166E+00	4.498E-18	249.349
46	2.414E+02	8.181E+00	4.972E-18	249.544
47	2.415E+02	8.196E+00	5.492E-18	249.738
48	2.417E+02	8.211E+00	6.064E-18	249.930
49	2.419E+02	8.225E+00	6.691E-18	250.122
50	2.421E+02	8.240E+00	7.378E-18	250.312
51	2.422E+02	8.255E+00	8.132E-18	250.501
52	2.424E+02	8.270E+00	8.957E-18	250.689
53	2.426E+02	8.285E+00	9.861E-18	250.875
54	2.428E+02	8.300E+00	1.085E-17	251.061
55	2.429E+02	8.315E+00	1.193E-17	251.245
56	2.431E+02	8.329E+00	1.311E-17	251.428
57	2.433E+02	8.344E+00	1.441E-17	251.610
58	2.434E+02	8.359E+00	1.582E-17	251.791
59	2.436E+02	8.373E+00	1.736E-17	251.971
60	2.438E+02	8.388E+00	1.904E-17	252.150
61	2.439E+02	8.402E+00	2.087E-17	252.327
62	2.441E+02	8.417E+00	2.287E-17	252.504
63	2.442E+02	8.432E+00	2.505E-17	252.680
64	2.444E+02	8.446E+00	2.742E-17	252.854
65	2.446E+02	8.461E+00	3.000E-17	253.028
66	2.447E+02	8.475E+00	3.280E-17	253.200
67	2.449E+02	8.489E+00	3.585E-17	253.371
68	2.450E+02	8.504E+00	3.917E-17	253.542
69	2.452E+02	8.518E+00	4.277E-17	253.711
70	2.453E+02	8.532E+00	4.669E-17	253.880
71	2.455E+02	8.547E+00	5.093E-17	254.047
72	2.457E+02	8.561E+00	5.554E-17	254.214
73	2.458E+02	8.575E+00	6.054E-17	254.379
74	2.460E+02	8.590E+00	6.596E-17	254.544
75	2.461E+02	8.604E+00	7.183E-17	254.708
76	2.463E+02	8.618E+00	7.819E-17	254.870
77	2.464E+02	8.632E+00	8.507E-17	255.032

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
78	2.465E+02	8.646E+00	9.252E-17	255.193
79	2.467E+02	8.660E+00	1.006E-16	255.353
80	2.468E+02	8.674E+00	1.093E-16	255.512
81	2.470E+02	8.688E+00	1.187E-16	255.670
82	2.471E+02	8.702E+00	1.289E-16	255.828
83	2.473E+02	8.716E+00	1.399E-16	255.984
84	2.474E+02	8.730E+00	1.517E-16	256.140
85	2.475E+02	8.744E+00	1.645E-16	256.294
86	2.477E+02	8.758E+00	1.783E-16	256.448
87	2.478E+02	8.772E+00	1.932E-16	256.601
88	2.480E+02	8.786E+00	2.093E-16	256.753
89	2.481E+02	8.800E+00	2.266E-16	256.905
90	2.482E+02	8.814E+00	2.452E-16	257.055
91	2.484E+02	8.827E+00	2.653E-16	257.205
92	2.485E+02	8.841E+00	2.868E-16	257.354
93	2.486E+02	8.855E+00	3.101E-16	257.502
94	2.488E+02	8.869E+00	3.350E-16	257.649
95	2.489E+02	8.882E+00	3.619E-16	257.796
96	2.490E+02	8.896E+00	3.908E-16	257.942
97	2.492E+02	8.910E+00	4.218E-16	258.087
98	2.493E+02	8.923E+00	4.550E-16	258.231
99	2.494E+02	8.937E+00	4.908E-16	258.375
100	2.496E+02	8.951E+00	5.291E-16	258.517
101	2.497E+02	8.964E+00	5.703E-16	258.659
102	2.498E+02	8.978E+00	6.144E-16	258.800
103	2.499E+02	8.991E+00	6.618E-16	258.941
104	2.501E+02	9.005E+00	7.125E-16	259.081
105	2.502E+02	9.018E+00	7.668E-16	259.220
106	2.503E+02	9.032E+00	8.250E-16	259.358
107	2.505E+02	9.045E+00	8.873E-16	259.496
108	2.506E+02	9.059E+00	9.540E-16	259.633
109	2.507E+02	9.072E+00	1.025E-15	259.769
110	2.508E+02	9.085E+00	1.102E-15	259.905
111	2.509E+02	9.099E+00	1.183E-15	260.039
112	2.511E+02	9.112E+00	1.270E-15	260.174
113	2.512E+02	9.125E+00	1.364E-15	260.307
114	2.513E+02	9.139E+00	1.463E-15	260.440
115	2.514E+02	9.152E+00	1.570E-15	260.572
116	2.515E+02	9.165E+00	1.683E-15	260.704
117	2.517E+02	9.178E+00	1.804E-15	260.834
118	2.518E+02	9.191E+00	1.934E-15	260.965

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
119	2.519E+02	9.205E+00	2.072E-15	261.094
120	2.520E+02	9.218E+00	2.219E-15	261.223
121	2.521E+02	9.231E+00	2.376E-15	261.352
122	2.522E+02	9.244E+00	2.543E-15	261.479
123	2.523E+02	9.257E+00	2.721E-15	261.606
124	2.525E+02	9.270E+00	2.910E-15	261.733
125	2.526E+02	9.283E+00	3.112E-15	261.858
126	2.527E+02	9.296E+00	3.327E-15	261.984
127	2.528E+02	9.309E+00	3.556E-15	262.108
128	2.529E+02	9.322E+00	3.800E-15	262.232
129	2.530E+02	9.335E+00	4.059E-15	262.356
130	2.531E+02	9.348E+00	4.334E-15	262.479
131	2.532E+02	9.361E+00	4.627E-15	262.601
132	2.533E+02	9.374E+00	4.938E-15	262.723
133	2.535E+02	9.387E+00	5.268E-15	262.844
134	2.536E+02	9.400E+00	5.619E-15	262.964
135	2.537E+02	9.413E+00	5.992E-15	263.084
136	2.538E+02	9.425E+00	6.388E-15	263.203
137	2.539E+02	9.438E+00	6.808E-15	263.322
138	2.540E+02	9.451E+00	7.254E-15	263.441
139	2.541E+02	9.464E+00	7.726E-15	263.558
140	2.542E+02	9.477E+00	8.228E-15	263.676
141	2.543E+02	9.489E+00	8.760E-15	263.792
142	2.544E+02	9.502E+00	9.323E-15	263.908
143	2.545E+02	9.515E+00	9.920E-15	264.024
144	2.546E+02	9.527E+00	1.055E-14	264.139
145	2.547E+02	9.540E+00	1.122E-14	264.254
146	2.548E+02	9.553E+00	1.193E-14	264.368
147	2.549E+02	9.565E+00	1.269E-14	264.481
148	2.550E+02	9.578E+00	1.348E-14	264.594
149	2.551E+02	9.591E+00	1.432E-14	264.706
150	2.552E+02	9.603E+00	1.521E-14	264.818
151	2.553E+02	9.616E+00	1.616E-14	264.930
152	2.554E+02	9.628E+00	1.715E-14	265.041
153	2.555E+02	9.641E+00	1.820E-14	265.151
154	2.556E+02	9.653E+00	1.932E-14	265.261
155	2.557E+02	9.666E+00	2.049E-14	265.371
156	2.558E+02	9.678E+00	2.174E-14	265.480
157	2.559E+02	9.691E+00	2.305E-14	265.588
158	2.560E+02	9.703E+00	2.444E-14	265.697
159	2.561E+02	9.716E+00	2.590E-14	265.804

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
160	2.562E+02	9.728E+00	2.745E-14	265.911
161	2.563E+02	9.740E+00	2.908E-14	266.018
162	2.564E+02	9.753E+00	3.080E-14	266.124
163	2.565E+02	9.765E+00	3.261E-14	266.230
164	2.566E+02	9.778E+00	3.453E-14	266.335
165	2.567E+02	9.790E+00	3.655E-14	266.440
166	2.567E+02	9.802E+00	3.867E-14	266.545
167	2.568E+02	9.814E+00	4.092E-14	266.648
168	2.569E+02	9.827E+00	4.328E-14	266.752
169	2.570E+02	9.839E+00	4.577E-14	266.855
170	2.571E+02	9.851E+00	4.840E-14	266.958
171	2.572E+02	9.863E+00	5.116E-14	267.060
172	2.573E+02	9.876E+00	5.407E-14	267.162
173	2.574E+02	9.888E+00	5.713E-14	267.263
174	2.575E+02	9.900E+00	6.036E-14	267.364
175	2.576E+02	9.912E+00	6.375E-14	267.465
176	2.576E+02	9.924E+00	6.732E-14	267.565
177	2.577E+02	9.937E+00	7.108E-14	267.665
178	2.578E+02	9.949E+00	7.503E-14	267.764
179	2.579E+02	9.961E+00	7.918E-14	267.863
180	2.580E+02	9.973E+00	8.355E-14	267.961
181	2.581E+02	9.985E+00	8.814E-14	268.060
182	2.582E+02	9.997E+00	9.297E-14	268.157
183	2.582E+02	1.001E+01	9.804E-14	268.255
184	2.583E+02	1.002E+01	1.034E-13	268.352
185	2.584E+02	1.003E+01	1.090E-13	268.448
186	2.585E+02	1.005E+01	1.148E-13	268.544
187	2.586E+02	1.006E+01	1.210E-13	268.640
188	2.587E+02	1.007E+01	1.275E-13	268.736
189	2.587E+02	1.008E+01	1.343E-13	268.831
190	2.588E+02	1.009E+01	1.414E-13	268.925
191	2.589E+02	1.010E+01	1.489E-13	269.020
192	2.590E+02	1.012E+01	1.568E-13	269.113
193	2.591E+02	1.013E+01	1.650E-13	269.207
194	2.592E+02	1.014E+01	1.736E-13	269.300
195	2.592E+02	1.015E+01	1.827E-13	269.393
196	2.593E+02	1.016E+01	1.922E-13	269.486
197	2.594E+02	1.018E+01	2.021E-13	269.578
198	2.595E+02	1.019E+01	2.126E-13	269.669
199	2.596E+02	1.020E+01	2.235E-13	269.761
200	2.596E+02	1.021E+01	2.350E-13	269.852

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
201	2.597E+02	1.022E+01	2.470E-13	269.943
202	2.598E+02	1.024E+01	2.595E-13	270.033
203	2.599E+02	1.025E+01	2.727E-13	270.123
204	2.600E+02	1.026E+01	2.865E-13	270.213
205	2.600E+02	1.027E+01	3.009E-13	270.302
206	2.601E+02	1.028E+01	3.160E-13	270.391
207	2.602E+02	1.029E+01	3.318E-13	270.480
208	2.603E+02	1.031E+01	3.483E-13	270.568
209	2.603E+02	1.032E+01	3.656E-13	270.656
210	2.604E+02	1.033E+01	3.837E-13	270.744
211	2.605E+02	1.034E+01	4.026E-13	270.832
212	2.606E+02	1.035E+01	4.224E-13	270.919
213	2.606E+02	1.036E+01	4.431E-13	271.005
214	2.607E+02	1.038E+01	4.648E-13	271.092
215	2.608E+02	1.039E+01	4.874E-13	271.178
216	2.609E+02	1.040E+01	5.110E-13	271.264
217	2.609E+02	1.041E+01	5.357E-13	271.349
218	2.610E+02	1.042E+01	5.615E-13	271.435
219	2.611E+02	1.043E+01	5.884E-13	271.520
220	2.612E+02	1.045E+01	6.166E-13	271.604
221	2.612E+02	1.046E+01	6.460E-13	271.689
222	2.613E+02	1.047E+01	6.767E-13	271.773
223	2.614E+02	1.048E+01	7.088E-13	271.856
224	2.614E+02	1.049E+01	7.422E-13	271.940
225	2.615E+02	1.050E+01	7.772E-13	272.023
226	2.616E+02	1.051E+01	8.136E-13	272.106
227	2.617E+02	1.053E+01	8.517E-13	272.188
228	2.617E+02	1.054E+01	8.914E-13	272.271
229	2.618E+02	1.055E+01	9.328E-13	272.353
230	2.619E+02	1.056E+01	9.760E-13	272.434
231	2.619E+02	1.057E+01	1.021E-12	272.516
232	2.620E+02	1.058E+01	1.068E-12	272.597
233	2.621E+02	1.060E+01	1.117E-12	272.678
234	2.622E+02	1.061E+01	1.168E-12	272.758
235	2.622E+02	1.062E+01	1.221E-12	272.839
236	2.623E+02	1.063E+01	1.277E-12	272.919
237	2.624E+02	1.064E+01	1.335E-12	272.999
238	2.624E+02	1.065E+01	1.395E-12	273.078
239	2.625E+02	1.066E+01	1.458E-12	273.157
240	2.626E+02	1.067E+01	1.523E-12	273.236
241	2.626E+02	1.069E+01	1.591E-12	273.315

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
242	2.627E+02	1.070E+01	1.662E-12	273.394
243	2.628E+02	1.071E+01	1.736E-12	273.472
244	2.628E+02	1.072E+01	1.813E-12	273.550
245	2.629E+02	1.073E+01	1.893E-12	273.628
246	2.630E+02	1.074E+01	1.977E-12	273.705
247	2.630E+02	1.075E+01	2.064E-12	273.782
248	2.631E+02	1.077E+01	2.154E-12	273.859
249	2.632E+02	1.078E+01	2.248E-12	273.936
250	2.632E+02	1.079E+01	2.346E-12	274.013
251	2.633E+02	1.080E+01	2.448E-12	274.089
252	2.634E+02	1.081E+01	2.554E-12	274.165
253	2.634E+02	1.082E+01	2.664E-12	274.241
254	2.635E+02	1.083E+01	2.779E-12	274.316
255	2.635E+02	1.084E+01	2.898E-12	274.391
256	2.636E+02	1.086E+01	3.022E-12	274.466
257	2.637E+02	1.087E+01	3.151E-12	274.541
258	2.637E+02	1.088E+01	3.285E-12	274.616
259	2.638E+02	1.089E+01	3.424E-12	274.690
260	2.639E+02	1.090E+01	3.569E-12	274.764
261	2.639E+02	1.091E+01	3.719E-12	274.838
262	2.640E+02	1.092E+01	3.876E-12	274.912
263	2.641E+02	1.093E+01	4.038E-12	274.985
264	2.641E+02	1.095E+01	4.207E-12	275.059
265	2.642E+02	1.096E+01	4.383E-12	275.132
266	2.642E+02	1.097E+01	4.565E-12	275.204
267	2.643E+02	1.098E+01	4.754E-12	275.277
268	2.644E+02	1.099E+01	4.951E-12	275.349
269	2.644E+02	1.100E+01	5.155E-12	275.421
270	2.645E+02	1.101E+01	5.367E-12	275.493
271	2.645E+02	1.102E+01	5.587E-12	275.565
272	2.646E+02	1.103E+01	5.815E-12	275.637
273	2.647E+02	1.105E+01	6.052E-12	275.708
274	2.647E+02	1.106E+01	6.299E-12	275.779
275	2.648E+02	1.107E+01	6.554E-12	275.850
276	2.648E+02	1.108E+01	6.819E-12	275.921
277	2.649E+02	1.109E+01	7.094E-12	275.991
278	2.650E+02	1.110E+01	7.380E-12	276.061
279	2.650E+02	1.111E+01	7.676E-12	276.131
280	2.651E+02	1.112E+01	7.983E-12	276.201
281	2.651E+02	1.113E+01	8.302E-12	276.271
282	2.652E+02	1.114E+01	8.632E-12	276.340

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
283	2.653E+02	1.116E+01	8.975E-12	276.410
284	2.653E+02	1.117E+01	9.331E-12	276.479
285	2.654E+02	1.118E+01	9.699E-12	276.548
286	2.654E+02	1.119E+01	1.008E-11	276.616
287	2.655E+02	1.120E+01	1.048E-11	276.685
288	2.655E+02	1.121E+01	1.089E-11	276.753
289	2.656E+02	1.122E+01	1.131E-11	276.821
290	2.657E+02	1.123E+01	1.175E-11	276.889
291	2.657E+02	1.124E+01	1.221E-11	276.957
292	2.658E+02	1.125E+01	1.269E-11	277.025
293	2.658E+02	1.127E+01	1.318E-11	277.092
294	2.659E+02	1.128E+01	1.369E-11	277.159
295	2.659E+02	1.129E+01	1.421E-11	277.226
296	2.660E+02	1.130E+01	1.476E-11	277.293
297	2.660E+02	1.131E+01	1.532E-11	277.360
298	2.661E+02	1.132E+01	1.591E-11	277.426
299	2.662E+02	1.133E+01	1.652E-11	277.492
300	2.662E+02	1.134E+01	1.714E-11	277.559
301	2.663E+02	1.135E+01	1.779E-11	277.625
302	2.663E+02	1.136E+01	1.847E-11	277.690
303	2.664E+02	1.138E+01	1.916E-11	277.756
304	2.664E+02	1.139E+01	1.989E-11	277.821
305	2.665E+02	1.140E+01	2.063E-11	277.887
306	2.665E+02	1.141E+01	2.141E-11	277.952
307	2.666E+02	1.142E+01	2.221E-11	278.017
308	2.667E+02	1.143E+01	2.303E-11	278.081
309	2.667E+02	1.144E+01	2.389E-11	278.146
310	2.668E+02	1.145E+01	2.478E-11	278.210
311	2.668E+02	1.146E+01	2.570E-11	278.275
312	2.669E+02	1.147E+01	2.665E-11	278.339
313	2.669E+02	1.148E+01	2.763E-11	278.403
314	2.670E+02	1.150E+01	2.864E-11	278.467
315	2.670E+02	1.151E+01	2.969E-11	278.530
316	2.671E+02	1.152E+01	3.078E-11	278.594
317	2.671E+02	1.153E+01	3.190E-11	278.657
318	2.672E+02	1.154E+01	3.307E-11	278.720
319	2.672E+02	1.155E+01	3.427E-11	278.783
320	2.673E+02	1.156E+01	3.551E-11	278.846
321	2.673E+02	1.157E+01	3.679E-11	278.909
322	2.674E+02	1.158E+01	3.812E-11	278.971
323	2.674E+02	1.159E+01	3.950E-11	279.034

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
324	2.675E+02	1.160E+01	4.091E-11	279.096
325	2.675E+02	1.161E+01	4.238E-11	279.158
326	2.676E+02	1.163E+01	4.390E-11	279.220
327	2.676E+02	1.164E+01	4.546E-11	279.282
328	2.677E+02	1.165E+01	4.708E-11	279.343
329	2.677E+02	1.166E+01	4.876E-11	279.405
330	2.678E+02	1.167E+01	5.048E-11	279.466
331	2.678E+02	1.168E+01	5.227E-11	279.527
332	2.679E+02	1.169E+01	5.411E-11	279.588
333	2.679E+02	1.170E+01	5.602E-11	279.649
334	2.680E+02	1.171E+01	5.799E-11	279.710
335	2.680E+02	1.172E+01	6.002E-11	279.770
336	2.681E+02	1.173E+01	6.212E-11	279.831
337	2.681E+02	1.174E+01	6.429E-11	279.891
338	2.682E+02	1.176E+01	6.653E-11	279.951
339	2.682E+02	1.177E+01	6.884E-11	280.011
340	2.683E+02	1.178E+01	7.123E-11	280.071
341	2.683E+02	1.179E+01	7.369E-11	280.131
342	2.684E+02	1.180E+01	7.624E-11	280.191
343	2.684E+02	1.181E+01	7.886E-11	280.250
344	2.685E+02	1.182E+01	8.157E-11	280.310
345	2.685E+02	1.183E+01	8.437E-11	280.369
346	2.686E+02	1.184E+01	8.726E-11	280.428
347	2.686E+02	1.185E+01	9.024E-11	280.487
348	2.687E+02	1.186E+01	9.332E-11	280.546
349	2.687E+02	1.187E+01	9.649E-11	280.604
350	2.688E+02	1.189E+01	9.977E-11	280.663
351	2.688E+02	1.190E+01	1.031E-10	280.721
352	2.689E+02	1.191E+01	1.066E-10	280.780
353	2.689E+02	1.192E+01	1.102E-10	280.838
354	2.690E+02	1.193E+01	1.139E-10	280.896
355	2.690E+02	1.194E+01	1.178E-10	280.954
356	2.691E+02	1.195E+01	1.217E-10	281.011
357	2.691E+02	1.196E+01	1.258E-10	281.069
358	2.692E+02	1.197E+01	1.300E-10	281.127
359	2.692E+02	1.198E+01	1.343E-10	281.184
360	2.692E+02	1.199E+01	1.388E-10	281.241
361	2.693E+02	1.200E+01	1.434E-10	281.298
362	2.693E+02	1.201E+01	1.481E-10	281.355
363	2.694E+02	1.203E+01	1.530E-10	281.412
364	2.694E+02	1.204E+01	1.581E-10	281.469

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
365	2.695E+02	1.205E+01	1.633E-10	281.526
366	2.695E+02	1.206E+01	1.687E-10	281.582
367	2.696E+02	1.207E+01	1.742E-10	281.639
368	2.696E+02	1.208E+01	1.799E-10	281.695
369	2.697E+02	1.209E+01	1.858E-10	281.751
370	2.697E+02	1.210E+01	1.918E-10	281.807
371	2.698E+02	1.211E+01	1.981E-10	281.863
372	2.698E+02	1.212E+01	2.045E-10	281.919
373	2.698E+02	1.213E+01	2.111E-10	281.975
374	2.699E+02	1.214E+01	2.179E-10	282.030
375	2.699E+02	1.215E+01	2.250E-10	282.086
376	2.700E+02	1.216E+01	2.322E-10	282.141
377	2.700E+02	1.218E+01	2.397E-10	282.196
378	2.701E+02	1.219E+01	2.474E-10	282.251
379	2.701E+02	1.220E+01	2.553E-10	282.306
380	2.702E+02	1.221E+01	2.635E-10	282.361
381	2.702E+02	1.222E+01	2.719E-10	282.416
382	2.702E+02	1.223E+01	2.805E-10	282.471
383	2.703E+02	1.224E+01	2.894E-10	282.525
384	2.703E+02	1.225E+01	2.986E-10	282.580
385	2.704E+02	1.226E+01	3.080E-10	282.634
386	2.704E+02	1.227E+01	3.178E-10	282.688
387	2.705E+02	1.228E+01	3.278E-10	282.742
388	2.705E+02	1.229E+01	3.381E-10	282.796
389	2.705E+02	1.230E+01	3.487E-10	282.850
390	2.706E+02	1.231E+01	3.597E-10	282.904
391	2.706E+02	1.233E+01	3.709E-10	282.958
392	2.707E+02	1.234E+01	3.825E-10	283.011
393	2.707E+02	1.235E+01	3.944E-10	283.065
394	2.708E+02	1.236E+01	4.067E-10	283.118
395	2.708E+02	1.237E+01	4.193E-10	283.171
396	2.708E+02	1.238E+01	4.323E-10	283.224
397	2.709E+02	1.239E+01	4.457E-10	283.277
398	2.709E+02	1.240E+01	4.594E-10	283.330
399	2.710E+02	1.241E+01	4.736E-10	283.383
400	2.710E+02	1.242E+01	4.882E-10	283.436
401	2.711E+02	1.243E+01	5.032E-10	283.488
402	2.711E+02	1.244E+01	5.186E-10	283.541
403	2.711E+02	1.245E+01	5.344E-10	283.593
404	2.712E+02	1.246E+01	5.508E-10	283.646
405	2.712E+02	1.248E+01	5.675E-10	283.698

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
406	2.713E+02	1.249E+01	5.848E-10	283.750
407	2.713E+02	1.250E+01	6.026E-10	283.802
408	2.713E+02	1.251E+01	6.208E-10	283.854
409	2.714E+02	1.252E+01	6.396E-10	283.905
410	2.714E+02	1.253E+01	6.589E-10	283.957
411	2.715E+02	1.254E+01	6.788E-10	284.009
412	2.715E+02	1.255E+01	6.992E-10	284.060
413	2.716E+02	1.256E+01	7.202E-10	284.112
414	2.716E+02	1.257E+01	7.418E-10	284.163
415	2.716E+02	1.258E+01	7.640E-10	284.214
416	2.717E+02	1.259E+01	7.868E-10	284.265
417	2.717E+02	1.260E+01	8.102E-10	284.316
418	2.718E+02	1.261E+01	8.343E-10	284.367
419	2.718E+02	1.263E+01	8.591E-10	284.418
420	2.718E+02	1.264E+01	8.846E-10	284.468
421	2.719E+02	1.265E+01	9.107E-10	284.519
422	2.719E+02	1.266E+01	9.376E-10	284.570
423	2.720E+02	1.267E+01	9.653E-10	284.620
424	2.720E+02	1.268E+01	9.937E-10	284.670
425	2.720E+02	1.269E+01	1.023E-09	284.720
426	2.721E+02	1.270E+01	1.053E-09	284.771
427	2.721E+02	1.271E+01	1.084E-09	284.821
428	2.721E+02	1.272E+01	1.115E-09	284.871
429	2.722E+02	1.273E+01	1.148E-09	284.920
430	2.722E+02	1.274E+01	1.181E-09	284.970
431	2.723E+02	1.275E+01	1.216E-09	285.020
432	2.723E+02	1.276E+01	1.251E-09	285.069
433	2.723E+02	1.278E+01	1.287E-09	285.119
434	2.724E+02	1.279E+01	1.324E-09	285.168
435	2.724E+02	1.280E+01	1.363E-09	285.217
436	2.725E+02	1.281E+01	1.402E-09	285.267
437	2.725E+02	1.282E+01	1.442E-09	285.316
438	2.725E+02	1.283E+01	1.484E-09	285.365
439	2.726E+02	1.284E+01	1.526E-09	285.414
440	2.726E+02	1.285E+01	1.570E-09	285.462
441	2.727E+02	1.286E+01	1.614E-09	285.511
442	2.727E+02	1.287E+01	1.660E-09	285.560
443	2.727E+02	1.288E+01	1.708E-09	285.608
444	2.728E+02	1.289E+01	1.756E-09	285.657
445	2.728E+02	1.290E+01	1.806E-09	285.705
446	2.728E+02	1.291E+01	1.857E-09	285.753

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
447	2.729E+02	1.292E+01	1.910E-09	285.802
448	2.729E+02	1.294E+01	1.963E-09	285.850
449	2.730E+02	1.295E+01	2.019E-09	285.898
450	2.730E+02	1.296E+01	2.075E-09	285.946
451	2.730E+02	1.297E+01	2.134E-09	285.993
452	2.731E+02	1.298E+01	2.193E-09	286.041
453	2.731E+02	1.299E+01	2.255E-09	286.089
454	2.731E+02	1.300E+01	2.317E-09	286.136
455	2.732E+02	1.301E+01	2.382E-09	286.184
456	2.732E+02	1.302E+01	2.448E-09	286.231
457	2.732E+02	1.303E+01	2.516E-09	286.279
458	2.733E+02	1.304E+01	2.586E-09	286.326
459	2.733E+02	1.305E+01	2.657E-09	286.373
460	2.734E+02	1.306E+01	2.731E-09	286.420
461	2.734E+02	1.307E+01	2.806E-09	286.467
462	2.734E+02	1.309E+01	2.883E-09	286.514
463	2.735E+02	1.310E+01	2.962E-09	286.561
464	2.735E+02	1.311E+01	3.044E-09	286.607
465	2.735E+02	1.312E+01	3.127E-09	286.654
466	2.736E+02	1.313E+01	3.212E-09	286.701
467	2.736E+02	1.314E+01	3.300E-09	286.747
468	2.736E+02	1.315E+01	3.390E-09	286.793
469	2.737E+02	1.316E+01	3.482E-09	286.840
470	2.737E+02	1.317E+01	3.577E-09	286.886
471	2.738E+02	1.318E+01	3.673E-09	286.932
472	2.738E+02	1.319E+01	3.773E-09	286.978
473	2.738E+02	1.320E+01	3.875E-09	287.024
474	2.739E+02	1.321E+01	3.979E-09	287.070
475	2.739E+02	1.322E+01	4.086E-09	287.116
476	2.739E+02	1.323E+01	4.196E-09	287.162
477	2.740E+02	1.325E+01	4.308E-09	287.207
478	2.740E+02	1.326E+01	4.423E-09	287.253
479	2.740E+02	1.327E+01	4.542E-09	287.298
480	2.741E+02	1.328E+01	4.663E-09	287.344
481	2.741E+02	1.329E+01	4.787E-09	287.389
482	2.741E+02	1.330E+01	4.914E-09	287.434
483	2.742E+02	1.331E+01	5.044E-09	287.479
484	2.742E+02	1.332E+01	5.178E-09	287.524
485	2.742E+02	1.333E+01	5.315E-09	287.569
486	2.743E+02	1.334E+01	5.455E-09	287.614
487	2.743E+02	1.335E+01	5.599E-09	287.659

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
488	2.743E+02	1.336E+01	5.746E-09	287.704
489	2.744E+02	1.337E+01	5.897E-09	287.749
490	2.744E+02	1.338E+01	6.052E-09	287.793
491	2.744E+02	1.339E+01	6.210E-09	287.838
492	2.745E+02	1.341E+01	6.372E-09	287.882
493	2.745E+02	1.342E+01	6.538E-09	287.927
494	2.745E+02	1.343E+01	6.709E-09	287.971
495	2.746E+02	1.344E+01	6.883E-09	288.015
496	2.746E+02	1.345E+01	7.062E-09	288.059
497	2.746E+02	1.346E+01	7.245E-09	288.103
498	2.747E+02	1.347E+01	7.432E-09	288.147
499	2.747E+02	1.348E+01	7.624E-09	288.191
500	2.747E+02	1.349E+01	7.820E-09	288.235
501	2.748E+02	1.350E+01	8.021E-09	288.279
502	2.748E+02	1.351E+01	8.227E-09	288.322
503	2.748E+02	1.352E+01	8.438E-09	288.366
504	2.749E+02	1.353E+01	8.654E-09	288.410
505	2.749E+02	1.354E+01	8.875E-09	288.453
506	2.749E+02	1.355E+01	9.102E-09	288.496
507	2.750E+02	1.357E+01	9.334E-09	288.540
508	2.750E+02	1.358E+01	9.571E-09	288.583
509	2.750E+02	1.359E+01	9.814E-09	288.626
510	2.751E+02	1.360E+01	1.006E-08	288.669
511	2.751E+02	1.361E+01	1.032E-08	288.712
512	2.751E+02	1.362E+01	1.058E-08	288.755
513	2.752E+02	1.363E+01	1.084E-08	288.798
514	2.752E+02	1.364E+01	1.112E-08	288.841
515	2.752E+02	1.365E+01	1.140E-08	288.884
516	2.753E+02	1.366E+01	1.168E-08	288.926
517	2.753E+02	1.367E+01	1.197E-08	288.969
518	2.753E+02	1.368E+01	1.227E-08	289.011
519	2.754E+02	1.369E+01	1.258E-08	289.054
520	2.754E+02	1.370E+01	1.289E-08	289.096
521	2.754E+02	1.371E+01	1.321E-08	289.138
522	2.755E+02	1.372E+01	1.354E-08	289.181
523	2.755E+02	1.374E+01	1.388E-08	289.223
524	2.755E+02	1.375E+01	1.422E-08	289.265
525	2.755E+02	1.376E+01	1.457E-08	289.307
526	2.756E+02	1.377E+01	1.493E-08	289.349
527	2.756E+02	1.378E+01	1.530E-08	289.391
528	2.756E+02	1.379E+01	1.568E-08	289.432

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
529	2.757E+02	1.380E+01	1.606E-08	289.474
530	2.757E+02	1.381E+01	1.645E-08	289.516
531	2.757E+02	1.382E+01	1.686E-08	289.557
532	2.758E+02	1.383E+01	1.727E-08	289.599
533	2.758E+02	1.384E+01	1.769E-08	289.640
534	2.758E+02	1.385E+01	1.812E-08	289.682
535	2.759E+02	1.386E+01	1.856E-08	289.723
536	2.759E+02	1.387E+01	1.901E-08	289.764
537	2.759E+02	1.388E+01	1.947E-08	289.805
538	2.760E+02	1.390E+01	1.994E-08	289.846
539	2.760E+02	1.391E+01	2.042E-08	289.887
540	2.760E+02	1.392E+01	2.091E-08	289.928
541	2.760E+02	1.393E+01	2.142E-08	289.969
542	2.761E+02	1.394E+01	2.193E-08	290.010
543	2.761E+02	1.395E+01	2.246E-08	290.051
544	2.761E+02	1.396E+01	2.299E-08	290.091
545	2.762E+02	1.397E+01	2.354E-08	290.132
546	2.762E+02	1.398E+01	2.410E-08	290.173
547	2.762E+02	1.399E+01	2.468E-08	290.213
548	2.763E+02	1.400E+01	2.527E-08	290.253
549	2.763E+02	1.401E+01	2.586E-08	290.294
550	2.763E+02	1.402E+01	2.648E-08	290.334
551	2.763E+02	1.403E+01	2.710E-08	290.374
552	2.764E+02	1.404E+01	2.774E-08	290.414
553	2.764E+02	1.405E+01	2.840E-08	290.455
554	2.764E+02	1.407E+01	2.907E-08	290.495
555	2.765E+02	1.408E+01	2.975E-08	290.534
556	2.765E+02	1.409E+01	3.045E-08	290.574
557	2.765E+02	1.410E+01	3.116E-08	290.614
558	2.765E+02	1.411E+01	3.189E-08	290.654
559	2.766E+02	1.412E+01	3.263E-08	290.694
560	2.766E+02	1.413E+01	3.339E-08	290.733
561	2.766E+02	1.414E+01	3.417E-08	290.773
562	2.767E+02	1.415E+01	3.496E-08	290.812
563	2.767E+02	1.416E+01	3.578E-08	290.852
564	2.767E+02	1.417E+01	3.660E-08	290.891
565	2.767E+02	1.418E+01	3.745E-08	290.930
566	2.768E+02	1.419E+01	3.831E-08	290.970
567	2.768E+02	1.420E+01	3.920E-08	291.009
568	2.768E+02	1.421E+01	4.010E-08	291.048
569	2.769E+02	1.422E+01	4.102E-08	291.087

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
570	2.769E+02	1.424E+01	4.196E-08	291.126
571	2.769E+02	1.425E+01	4.292E-08	291.165
572	2.769E+02	1.426E+01	4.390E-08	291.204
573	2.770E+02	1.427E+01	4.490E-08	291.242
574	2.770E+02	1.428E+01	4.592E-08	291.281
575	2.770E+02	1.429E+01	4.697E-08	291.320
576	2.771E+02	1.430E+01	4.804E-08	291.358
577	2.771E+02	1.431E+01	4.912E-08	291.397
578	2.771E+02	1.432E+01	5.024E-08	291.435
579	2.771E+02	1.433E+01	5.137E-08	291.474
580	2.772E+02	1.434E+01	5.253E-08	291.512
581	2.772E+02	1.435E+01	5.371E-08	291.551
582	2.772E+02	1.436E+01	5.492E-08	291.589
583	2.773E+02	1.437E+01	5.615E-08	291.627
584	2.773E+02	1.438E+01	5.741E-08	291.665
585	2.773E+02	1.439E+01	5.869E-08	291.703
586	2.773E+02	1.441E+01	6.000E-08	291.741
587	2.774E+02	1.442E+01	6.134E-08	291.779
588	2.774E+02	1.443E+01	6.271E-08	291.817
589	2.774E+02	1.444E+01	6.410E-08	291.855
590	2.774E+02	1.445E+01	6.552E-08	291.892
591	2.775E+02	1.446E+01	6.698E-08	291.930
592	2.775E+02	1.447E+01	6.846E-08	291.968
593	2.775E+02	1.448E+01	6.997E-08	292.005
594	2.776E+02	1.449E+01	7.151E-08	292.043
595	2.776E+02	1.450E+01	7.309E-08	292.080
596	2.776E+02	1.451E+01	7.469E-08	292.118
597	2.776E+02	1.452E+01	7.633E-08	292.155
598	2.777E+02	1.453E+01	7.800E-08	292.192
599	2.777E+02	1.454E+01	7.971E-08	292.229
600	2.777E+02	1.455E+01	8.145E-08	292.267
601	2.777E+02	1.456E+01	8.322E-08	292.304
602	2.778E+02	1.457E+01	8.503E-08	292.341
603	2.778E+02	1.459E+01	8.688E-08	292.378
604	2.778E+02	1.460E+01	8.877E-08	292.415
605	2.778E+02	1.461E+01	9.069E-08	292.452
606	2.779E+02	1.462E+01	9.265E-08	292.488
607	2.779E+02	1.463E+01	9.465E-08	292.525
608	2.779E+02	1.464E+01	9.669E-08	292.562
609	2.779E+02	1.465E+01	9.877E-08	292.598
610	2.780E+02	1.466E+01	1.009E-07	292.635

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
611	2.780E+02	1.467E+01	1.031E-07	292.672
612	2.780E+02	1.468E+01	1.053E-07	292.708
613	2.781E+02	1.469E+01	1.075E-07	292.744
614	2.781E+02	1.470E+01	1.098E-07	292.781
615	2.781E+02	1.471E+01	1.122E-07	292.817
616	2.781E+02	1.472E+01	1.145E-07	292.853
617	2.782E+02	1.473E+01	1.170E-07	292.890
618	2.782E+02	1.474E+01	1.195E-07	292.926
619	2.782E+02	1.475E+01	1.220E-07	292.962
620	2.782E+02	1.476E+01	1.246E-07	292.998
621	2.783E+02	1.478E+01	1.272E-07	293.034
622	2.783E+02	1.479E+01	1.299E-07	293.070
623	2.783E+02	1.480E+01	1.326E-07	293.105
624	2.783E+02	1.481E+01	1.354E-07	293.141
625	2.784E+02	1.482E+01	1.382E-07	293.177
626	2.784E+02	1.483E+01	1.411E-07	293.213
627	2.784E+02	1.484E+01	1.441E-07	293.248
628	2.784E+02	1.485E+01	1.471E-07	293.284
629	2.785E+02	1.486E+01	1.502E-07	293.319
630	2.785E+02	1.487E+01	1.533E-07	293.355
631	2.785E+02	1.488E+01	1.565E-07	293.390
632	2.785E+02	1.489E+01	1.597E-07	293.426
633	2.786E+02	1.490E+01	1.630E-07	293.461
634	2.786E+02	1.491E+01	1.664E-07	293.496
635	2.786E+02	1.492E+01	1.698E-07	293.532
636	2.786E+02	1.493E+01	1.733E-07	293.567
637	2.787E+02	1.494E+01	1.769E-07	293.602
638	2.787E+02	1.495E+01	1.805E-07	293.637
639	2.787E+02	1.497E+01	1.842E-07	293.672
640	2.787E+02	1.498E+01	1.880E-07	293.707
641	2.788E+02	1.499E+01	1.919E-07	293.742
642	2.788E+02	1.500E+01	1.958E-07	293.777
643	2.788E+02	1.501E+01	1.998E-07	293.811
644	2.788E+02	1.502E+01	2.038E-07	293.846
645	2.789E+02	1.503E+01	2.080E-07	293.881
646	2.789E+02	1.504E+01	2.122E-07	293.915
647	2.789E+02	1.505E+01	2.165E-07	293.950
648	2.789E+02	1.506E+01	2.209E-07	293.984
649	2.789E+02	1.507E+01	2.253E-07	294.019
650	2.790E+02	1.508E+01	2.299E-07	294.053
651	2.790E+02	1.509E+01	2.345E-07	294.088

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
652	2.790E+02	1.510E+01	2.392E-07	294.122
653	2.790E+02	1.511E+01	2.440E-07	294.156
654	2.791E+02	1.512E+01	2.489E-07	294.191
655	2.791E+02	1.513E+01	2.539E-07	294.225
656	2.791E+02	1.514E+01	2.590E-07	294.259
657	2.791E+02	1.516E+01	2.641E-07	294.293
658	2.792E+02	1.517E+01	2.694E-07	294.327
659	2.792E+02	1.518E+01	2.747E-07	294.361
660	2.792E+02	1.519E+01	2.802E-07	294.395
661	2.792E+02	1.520E+01	2.858E-07	294.429
662	2.793E+02	1.521E+01	2.914E-07	294.463
663	2.793E+02	1.522E+01	2.972E-07	294.496
664	2.793E+02	1.523E+01	3.030E-07	294.530
665	2.793E+02	1.524E+01	3.090E-07	294.564
666	2.793E+02	1.525E+01	3.151E-07	294.597
667	2.794E+02	1.526E+01	3.213E-07	294.631
668	2.794E+02	1.527E+01	3.276E-07	294.664
669	2.794E+02	1.528E+01	3.340E-07	294.698
670	2.794E+02	1.529E+01	3.405E-07	294.731
671	2.795E+02	1.530E+01	3.472E-07	294.765
672	2.795E+02	1.531E+01	3.539E-07	294.798
673	2.795E+02	1.532E+01	3.608E-07	294.831
674	2.795E+02	1.533E+01	3.678E-07	294.865
675	2.796E+02	1.534E+01	3.750E-07	294.898
676	2.796E+02	1.535E+01	3.822E-07	294.931
677	2.796E+02	1.537E+01	3.896E-07	294.964
678	2.796E+02	1.538E+01	3.971E-07	294.997
679	2.796E+02	1.539E+01	4.048E-07	295.030
680	2.797E+02	1.540E+01	4.126E-07	295.063
681	2.797E+02	1.541E+01	4.205E-07	295.096
682	2.797E+02	1.542E+01	4.286E-07	295.129
683	2.797E+02	1.543E+01	4.368E-07	295.162
684	2.798E+02	1.544E+01	4.452E-07	295.194
685	2.798E+02	1.545E+01	4.537E-07	295.227
686	2.798E+02	1.546E+01	4.623E-07	295.260
687	2.798E+02	1.547E+01	4.711E-07	295.292
688	2.798E+02	1.548E+01	4.801E-07	295.325
689	2.799E+02	1.549E+01	4.892E-07	295.357
690	2.799E+02	1.550E+01	4.985E-07	295.390
691	2.799E+02	1.551E+01	5.079E-07	295.422
692	2.799E+02	1.552E+01	5.175E-07	295.455

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
693	2.800E+02	1.553E+01	5.273E-07	295.487
694	2.800E+02	1.554E+01	5.372E-07	295.519
695	2.800E+02	1.555E+01	5.473E-07	295.552
696	2.800E+02	1.556E+01	5.576E-07	295.584
697	2.800E+02	1.558E+01	5.681E-07	295.616
698	2.801E+02	1.559E+01	5.787E-07	295.648
699	2.801E+02	1.560E+01	5.895E-07	295.680
700	2.801E+02	1.561E+01	6.006E-07	295.712
701	2.801E+02	1.562E+01	6.118E-07	295.744
702	2.801E+02	1.563E+01	6.231E-07	295.776
703	2.802E+02	1.564E+01	6.347E-07	295.808
704	2.802E+02	1.565E+01	6.465E-07	295.840
705	2.802E+02	1.566E+01	6.585E-07	295.872
706	2.802E+02	1.567E+01	6.707E-07	295.904
707	2.803E+02	1.568E+01	6.831E-07	295.935
708	2.803E+02	1.569E+01	6.957E-07	295.967
709	2.803E+02	1.570E+01	7.085E-07	295.999
710	2.803E+02	1.571E+01	7.215E-07	296.030
711	2.803E+02	1.572E+01	7.348E-07	296.062
712	2.804E+02	1.573E+01	7.483E-07	296.093
713	2.804E+02	1.574E+01	7.620E-07	296.125
714	2.804E+02	1.575E+01	7.759E-07	296.156
715	2.804E+02	1.576E+01	7.901E-07	296.187
716	2.804E+02	1.577E+01	8.045E-07	296.219
717	2.805E+02	1.578E+01	8.191E-07	296.250
718	2.805E+02	1.580E+01	8.340E-07	296.281
719	2.805E+02	1.581E+01	8.492E-07	296.313
720	2.805E+02	1.582E+01	8.645E-07	296.344
721	2.805E+02	1.583E+01	8.802E-07	296.375
722	2.806E+02	1.584E+01	8.961E-07	296.406
723	2.806E+02	1.585E+01	9.123E-07	296.437
724	2.806E+02	1.586E+01	9.287E-07	296.468
725	2.806E+02	1.587E+01	9.454E-07	296.499
726	2.807E+02	1.588E+01	9.624E-07	296.530
727	2.807E+02	1.589E+01	9.797E-07	296.561
728	2.807E+02	1.590E+01	9.972E-07	296.591
729	2.807E+02	1.591E+01	1.015E-06	296.622
730	2.807E+02	1.592E+01	1.033E-06	296.653
731	2.808E+02	1.593E+01	1.052E-06	296.684
732	2.808E+02	1.594E+01	1.070E-06	296.714
733	2.808E+02	1.595E+01	1.089E-06	296.745

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
734	2.808E+02	1.596E+01	1.109E-06	296.776
735	2.808E+02	1.597E+01	1.128E-06	296.806
736	2.809E+02	1.598E+01	1.148E-06	296.837
737	2.809E+02	1.599E+01	1.169E-06	296.867
738	2.809E+02	1.600E+01	1.189E-06	296.897
739	2.809E+02	1.601E+01	1.210E-06	296.928
740	2.809E+02	1.603E+01	1.231E-06	296.958
741	2.810E+02	1.604E+01	1.253E-06	296.988
742	2.810E+02	1.605E+01	1.275E-06	297.019
743	2.810E+02	1.606E+01	1.297E-06	297.049
744	2.810E+02	1.607E+01	1.320E-06	297.079
745	2.810E+02	1.608E+01	1.343E-06	297.109
746	2.811E+02	1.609E+01	1.367E-06	297.139
747	2.811E+02	1.610E+01	1.390E-06	297.169
748	2.811E+02	1.611E+01	1.415E-06	297.199
749	2.811E+02	1.612E+01	1.439E-06	297.229
750	2.811E+02	1.613E+01	1.464E-06	297.259
751	2.811E+02	1.614E+01	1.489E-06	297.289
752	2.812E+02	1.615E+01	1.515E-06	297.319
753	2.812E+02	1.616E+01	1.541E-06	297.349
754	2.812E+02	1.617E+01	1.568E-06	297.379
755	2.812E+02	1.618E+01	1.595E-06	297.408
756	2.812E+02	1.619E+01	1.622E-06	297.438
757	2.813E+02	1.620E+01	1.650E-06	297.468
758	2.813E+02	1.621E+01	1.679E-06	297.497
759	2.813E+02	1.622E+01	1.707E-06	297.527
760	2.813E+02	1.623E+01	1.736E-06	297.557
761	2.813E+02	1.624E+01	1.766E-06	297.586
762	2.814E+02	1.625E+01	1.796E-06	297.616
763	2.814E+02	1.626E+01	1.827E-06	297.645
764	2.814E+02	1.628E+01	1.858E-06	297.674
765	2.814E+02	1.629E+01	1.889E-06	297.704
766	2.814E+02	1.630E+01	1.921E-06	297.733
767	2.815E+02	1.631E+01	1.954E-06	297.762
768	2.815E+02	1.632E+01	1.987E-06	297.792
769	2.815E+02	1.633E+01	2.020E-06	297.821
770	2.815E+02	1.634E+01	2.054E-06	297.850
771	2.815E+02	1.635E+01	2.089E-06	297.879
772	2.815E+02	1.636E+01	2.124E-06	297.908
773	2.816E+02	1.637E+01	2.160E-06	297.937
774	2.816E+02	1.638E+01	2.196E-06	297.966

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
775	2.816E+02	1.639E+01	2.233E-06	297.995
776	2.816E+02	1.640E+01	2.270E-06	298.024
777	2.816E+02	1.641E+01	2.308E-06	298.053
778	2.817E+02	1.642E+01	2.346E-06	298.082
779	2.817E+02	1.643E+01	2.385E-06	298.111
780	2.817E+02	1.644E+01	2.425E-06	298.140
781	2.817E+02	1.645E+01	2.465E-06	298.168
782	2.817E+02	1.646E+01	2.506E-06	298.197
783	2.818E+02	1.647E+01	2.547E-06	298.226
784	2.818E+02	1.648E+01	2.589E-06	298.254
785	2.818E+02	1.649E+01	2.632E-06	298.283
786	2.818E+02	1.650E+01	2.675E-06	298.312
787	2.818E+02	1.651E+01	2.719E-06	298.340
788	2.818E+02	1.652E+01	2.764E-06	298.369
789	2.819E+02	1.654E+01	2.809E-06	298.397
790	2.819E+02	1.655E+01	2.855E-06	298.426
791	2.819E+02	1.656E+01	2.902E-06	298.454
792	2.819E+02	1.657E+01	2.949E-06	298.482
793	2.819E+02	1.658E+01	2.998E-06	298.511
794	2.820E+02	1.659E+01	3.046E-06	298.539
795	2.820E+02	1.660E+01	3.096E-06	298.567
796	2.820E+02	1.661E+01	3.146E-06	298.596
797	2.820E+02	1.662E+01	3.197E-06	298.624
798	2.820E+02	1.663E+01	3.249E-06	298.652
799	2.820E+02	1.664E+01	3.301E-06	298.680
800	2.821E+02	1.665E+01	3.355E-06	298.708
801	2.821E+02	1.666E+01	3.409E-06	298.736
802	2.821E+02	1.667E+01	3.464E-06	298.764
803	2.821E+02	1.668E+01	3.519E-06	298.792
804	2.821E+02	1.669E+01	3.576E-06	298.820
805	2.821E+02	1.670E+01	3.633E-06	298.848
806	2.822E+02	1.671E+01	3.691E-06	298.876
807	2.822E+02	1.672E+01	3.750E-06	298.904
808	2.822E+02	1.673E+01	3.810E-06	298.932
809	2.822E+02	1.674E+01	3.871E-06	298.959
810	2.822E+02	1.675E+01	3.933E-06	298.987
811	2.823E+02	1.676E+01	3.995E-06	299.015
812	2.823E+02	1.677E+01	4.059E-06	299.043
813	2.823E+02	1.678E+01	4.123E-06	299.070
814	2.823E+02	1.679E+01	4.188E-06	299.098
815	2.823E+02	1.681E+01	4.254E-06	299.125

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
816	2.823E+02	1.682E+01	4.322E-06	299.153
817	2.824E+02	1.683E+01	4.390E-06	299.181
818	2.824E+02	1.684E+01	4.459E-06	299.208
819	2.824E+02	1.685E+01	4.529E-06	299.235
820	2.824E+02	1.686E+01	4.600E-06	299.263
821	2.824E+02	1.687E+01	4.672E-06	299.290
822	2.824E+02	1.688E+01	4.745E-06	299.318
823	2.825E+02	1.689E+01	4.819E-06	299.345
824	2.825E+02	1.690E+01	4.895E-06	299.372
825	2.825E+02	1.691E+01	4.971E-06	299.399
826	2.825E+02	1.692E+01	5.048E-06	299.427
827	2.825E+02	1.693E+01	5.127E-06	299.454
828	2.825E+02	1.694E+01	5.206E-06	299.481
829	2.826E+02	1.695E+01	5.287E-06	299.508
830	2.826E+02	1.696E+01	5.369E-06	299.535
831	2.826E+02	1.697E+01	5.452E-06	299.562
832	2.826E+02	1.698E+01	5.536E-06	299.589
833	2.826E+02	1.699E+01	5.622E-06	299.616
834	2.826E+02	1.700E+01	5.708E-06	299.643
835	2.827E+02	1.701E+01	5.796E-06	299.670
836	2.827E+02	1.702E+01	5.885E-06	299.697
837	2.827E+02	1.703E+01	5.975E-06	299.724
838	2.827E+02	1.704E+01	6.067E-06	299.751
839	2.827E+02	1.705E+01	6.159E-06	299.778
840	2.827E+02	1.706E+01	6.253E-06	299.804
841	2.828E+02	1.707E+01	6.349E-06	299.831
842	2.828E+02	1.708E+01	6.446E-06	299.858
843	2.828E+02	1.709E+01	6.544E-06	299.885
844	2.828E+02	1.710E+01	6.643E-06	299.911
845	2.828E+02	1.712E+01	6.744E-06	299.938
846	2.828E+02	1.713E+01	6.846E-06	299.964
847	2.829E+02	1.714E+01	6.949E-06	299.991
848	2.829E+02	1.715E+01	7.054E-06	300.017
849	2.829E+02	1.716E+01	7.161E-06	300.044
850	2.829E+02	1.717E+01	7.269E-06	300.070
851	2.829E+02	1.718E+01	7.378E-06	300.097
852	2.829E+02	1.719E+01	7.489E-06	300.123
853	2.830E+02	1.720E+01	7.601E-06	300.150
854	2.830E+02	1.721E+01	7.715E-06	300.176
855	2.830E+02	1.722E+01	7.831E-06	300.202
856	2.830E+02	1.723E+01	7.948E-06	300.229

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
857	2.830E+02	1.724E+01	8.066E-06	300.255
858	2.830E+02	1.725E+01	8.186E-06	300.281
859	2.830E+02	1.726E+01	8.308E-06	300.307
860	2.831E+02	1.727E+01	8.432E-06	300.333
861	2.831E+02	1.728E+01	8.557E-06	300.359
862	2.831E+02	1.729E+01	8.684E-06	300.386
863	2.831E+02	1.730E+01	8.812E-06	300.412
864	2.831E+02	1.731E+01	8.942E-06	300.438
865	2.831E+02	1.732E+01	9.074E-06	300.464
866	2.832E+02	1.733E+01	9.208E-06	300.490
867	2.832E+02	1.734E+01	9.344E-06	300.516
868	2.832E+02	1.735E+01	9.481E-06	300.542
869	2.832E+02	1.736E+01	9.620E-06	300.567
870	2.832E+02	1.737E+01	9.761E-06	300.593
871	2.832E+02	1.738E+01	9.904E-06	300.619
872	2.833E+02	1.739E+01	1.005E-05	300.645
873	2.833E+02	1.740E+01	1.020E-05	300.671
874	2.833E+02	1.741E+01	1.034E-05	300.696
875	2.833E+02	1.742E+01	1.050E-05	300.722
876	2.833E+02	1.743E+01	1.065E-05	300.748
877	2.833E+02	1.745E+01	1.080E-05	300.774
878	2.833E+02	1.746E+01	1.096E-05	300.799
879	2.834E+02	1.747E+01	1.112E-05	300.825
880	2.834E+02	1.748E+01	1.128E-05	300.850
881	2.834E+02	1.749E+01	1.144E-05	300.876
882	2.834E+02	1.750E+01	1.161E-05	300.901
883	2.834E+02	1.751E+01	1.177E-05	300.927
884	2.834E+02	1.752E+01	1.194E-05	300.952
885	2.835E+02	1.753E+01	1.211E-05	300.978
886	2.835E+02	1.754E+01	1.229E-05	301.003
887	2.835E+02	1.755E+01	1.246E-05	301.029
888	2.835E+02	1.756E+01	1.264E-05	301.054
889	2.835E+02	1.757E+01	1.282E-05	301.079
890	2.835E+02	1.758E+01	1.301E-05	301.104
891	2.835E+02	1.759E+01	1.319E-05	301.130
892	2.836E+02	1.760E+01	1.338E-05	301.155
893	2.836E+02	1.761E+01	1.357E-05	301.180
894	2.836E+02	1.762E+01	1.376E-05	301.205
895	2.836E+02	1.763E+01	1.396E-05	301.231
896	2.836E+02	1.764E+01	1.416E-05	301.256
897	2.836E+02	1.765E+01	1.436E-05	301.281

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
898	2.836E+02	1.766E+01	1.456E-05	301.306
899	2.837E+02	1.767E+01	1.476E-05	301.331
900	2.837E+02	1.768E+01	1.497E-05	301.356
901	2.837E+02	1.769E+01	1.518E-05	301.381
902	2.837E+02	1.770E+01	1.540E-05	301.406
903	2.837E+02	1.771E+01	1.561E-05	301.431
904	2.837E+02	1.772E+01	1.583E-05	301.456
905	2.837E+02	1.773E+01	1.605E-05	301.481
906	2.838E+02	1.774E+01	1.628E-05	301.505
907	2.838E+02	1.775E+01	1.650E-05	301.530
908	2.838E+02	1.776E+01	1.673E-05	301.555
909	2.838E+02	1.777E+01	1.697E-05	301.580
910	2.838E+02	1.778E+01	1.720E-05	301.605
911	2.838E+02	1.779E+01	1.744E-05	301.629
912	2.838E+02	1.780E+01	1.768E-05	301.654
913	2.839E+02	1.782E+01	1.793E-05	301.679
914	2.839E+02	1.783E+01	1.818E-05	301.703
915	2.839E+02	1.784E+01	1.843E-05	301.728
916	2.839E+02	1.785E+01	1.868E-05	301.752
917	2.839E+02	1.786E+01	1.894E-05	301.777
918	2.839E+02	1.787E+01	1.920E-05	301.802
919	2.839E+02	1.788E+01	1.946E-05	301.826
920	2.840E+02	1.789E+01	1.973E-05	301.851
921	2.840E+02	1.790E+01	2.000E-05	301.875
922	2.840E+02	1.791E+01	2.028E-05	301.899
923	2.840E+02	1.792E+01	2.055E-05	301.924
924	2.840E+02	1.793E+01	2.083E-05	301.948
925	2.840E+02	1.794E+01	2.112E-05	301.973
926	2.840E+02	1.795E+01	2.140E-05	301.997
927	2.841E+02	1.796E+01	2.170E-05	302.021
928	2.841E+02	1.797E+01	2.199E-05	302.045
929	2.841E+02	1.798E+01	2.229E-05	302.070
930	2.841E+02	1.799E+01	2.259E-05	302.094
931	2.841E+02	1.800E+01	2.290E-05	302.118
932	2.841E+02	1.801E+01	2.321E-05	302.142
933	2.841E+02	1.802E+01	2.352E-05	302.166
934	2.842E+02	1.803E+01	2.384E-05	302.191
935	2.842E+02	1.804E+01	2.416E-05	302.215
936	2.842E+02	1.805E+01	2.448E-05	302.239
937	2.842E+02	1.806E+01	2.481E-05	302.263
938	2.842E+02	1.807E+01	2.514E-05	302.287

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
939	2.842E+02	1.808E+01	2.548E-05	302.311
940	2.842E+02	1.809E+01	2.582E-05	302.335
941	2.843E+02	1.810E+01	2.616E-05	302.359
942	2.843E+02	1.811E+01	2.651E-05	302.383
943	2.843E+02	1.812E+01	2.687E-05	302.407
944	2.843E+02	1.813E+01	2.722E-05	302.430
945	2.843E+02	1.814E+01	2.759E-05	302.454
946	2.843E+02	1.815E+01	2.795E-05	302.478
947	2.843E+02	1.816E+01	2.832E-05	302.502
948	2.844E+02	1.817E+01	2.870E-05	302.526
949	2.844E+02	1.818E+01	2.908E-05	302.549
950	2.844E+02	1.819E+01	2.946E-05	302.573
951	2.844E+02	1.820E+01	2.985E-05	302.597
952	2.844E+02	1.821E+01	3.024E-05	302.621
953	2.844E+02	1.822E+01	3.064E-05	302.644
954	2.844E+02	1.823E+01	3.104E-05	302.668
955	2.844E+02	1.825E+01	3.145E-05	302.691
956	2.845E+02	1.826E+01	3.186E-05	302.715
957	2.845E+02	1.827E+01	3.228E-05	302.739
958	2.845E+02	1.828E+01	3.270E-05	302.762
959	2.845E+02	1.829E+01	3.313E-05	302.786
960	2.845E+02	1.830E+01	3.356E-05	302.809
961	2.845E+02	1.831E+01	3.400E-05	302.833
962	2.845E+02	1.832E+01	3.444E-05	302.856
963	2.846E+02	1.833E+01	3.489E-05	302.879
964	2.846E+02	1.834E+01	3.534E-05	302.903
965	2.846E+02	1.835E+01	3.580E-05	302.926
966	2.846E+02	1.836E+01	3.626E-05	302.950
967	2.846E+02	1.837E+01	3.673E-05	302.973
968	2.846E+02	1.838E+01	3.720E-05	302.996
969	2.846E+02	1.839E+01	3.768E-05	303.019
970	2.846E+02	1.840E+01	3.817E-05	303.043
971	2.847E+02	1.841E+01	3.866E-05	303.066
972	2.847E+02	1.842E+01	3.915E-05	303.089
973	2.847E+02	1.843E+01	3.965E-05	303.112
974	2.847E+02	1.844E+01	4.016E-05	303.135
975	2.847E+02	1.845E+01	4.068E-05	303.159
976	2.847E+02	1.846E+01	4.120E-05	303.182
977	2.847E+02	1.847E+01	4.172E-05	303.205
978	2.847E+02	1.848E+01	4.225E-05	303.228
979	2.848E+02	1.849E+01	4.279E-05	303.251

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
980	2.848E+02	1.850E+01	4.333E-05	303.274
981	2.848E+02	1.851E+01	4.388E-05	303.297
982	2.848E+02	1.852E+01	4.444E-05	303.320
983	2.848E+02	1.853E+01	4.500E-05	303.343
984	2.848E+02	1.854E+01	4.557E-05	303.366
985	2.848E+02	1.855E+01	4.615E-05	303.389
986	2.849E+02	1.856E+01	4.673E-05	303.412
987	2.849E+02	1.857E+01	4.732E-05	303.434
988	2.849E+02	1.858E+01	4.791E-05	303.457
989	2.849E+02	1.859E+01	4.852E-05	303.480
990	2.849E+02	1.860E+01	4.913E-05	303.503
991	2.849E+02	1.861E+01	4.974E-05	303.526
992	2.849E+02	1.862E+01	5.036E-05	303.548
993	2.849E+02	1.863E+01	5.099E-05	303.571
994	2.850E+02	1.864E+01	5.163E-05	303.594
995	2.850E+02	1.865E+01	5.227E-05	303.617
996	2.850E+02	1.866E+01	5.293E-05	303.639
997	2.850E+02	1.867E+01	5.358E-05	303.662
998	2.850E+02	1.868E+01	5.425E-05	303.685
999	2.850E+02	1.869E+01	5.492E-05	303.707
1000	2.850E+02	1.870E+01	5.560E-05	303.730
1001	2.850E+02	1.871E+01	5.629E-05	303.752
1002	2.851E+02	1.872E+01	5.699E-05	303.775
1003	2.851E+02	1.873E+01	5.769E-05	303.797
1004	2.851E+02	1.874E+01	5.840E-05	303.820
1005	2.851E+02	1.875E+01	5.912E-05	303.842
1006	2.851E+02	1.876E+01	5.985E-05	303.865
1007	2.851E+02	1.878E+01	6.059E-05	303.887
1008	2.851E+02	1.879E+01	6.133E-05	303.910
1009	2.851E+02	1.880E+01	6.208E-05	303.932
1010	2.851E+02	1.881E+01	6.284E-05	303.954
1011	2.852E+02	1.882E+01	6.361E-05	303.977
1012	2.852E+02	1.883E+01	6.439E-05	303.999
1013	2.852E+02	1.884E+01	6.517E-05	304.021
1014	2.852E+02	1.885E+01	6.597E-05	304.044
1015	2.852E+02	1.886E+01	6.677E-05	304.066
1016	2.852E+02	1.887E+01	6.758E-05	304.088
1017	2.852E+02	1.888E+01	6.840E-05	304.110
1018	2.852E+02	1.889E+01	6.923E-05	304.132
1019	2.853E+02	1.890E+01	7.007E-05	304.155
1020	2.853E+02	1.891E+01	7.092E-05	304.177

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1021	2.853E+02	1.892E+01	7.178E-05	304.199
1022	2.853E+02	1.893E+01	7.264E-05	304.221
1023	2.853E+02	1.894E+01	7.352E-05	304.243
1024	2.853E+02	1.895E+01	7.440E-05	304.265
1025	2.853E+02	1.896E+01	7.530E-05	304.287
1026	2.853E+02	1.897E+01	7.620E-05	304.309
1027	2.854E+02	1.898E+01	7.711E-05	304.331
1028	2.854E+02	1.899E+01	7.804E-05	304.353
1029	2.854E+02	1.900E+01	7.897E-05	304.375
1030	2.854E+02	1.901E+01	7.991E-05	304.397
1031	2.854E+02	1.902E+01	8.087E-05	304.419
1032	2.854E+02	1.903E+01	8.183E-05	304.441
1033	2.854E+02	1.904E+01	8.281E-05	304.463
1034	2.854E+02	1.905E+01	8.379E-05	304.485
1035	2.854E+02	1.906E+01	8.479E-05	304.507
1036	2.855E+02	1.907E+01	8.579E-05	304.528
1037	2.855E+02	1.908E+01	8.681E-05	304.550
1038	2.855E+02	1.909E+01	8.783E-05	304.572
1039	2.855E+02	1.910E+01	8.887E-05	304.594
1040	2.855E+02	1.911E+01	8.992E-05	304.615
1041	2.855E+02	1.912E+01	9.098E-05	304.637
1042	2.855E+02	1.913E+01	9.205E-05	304.659
1043	2.855E+02	1.914E+01	9.314E-05	304.681
1044	2.856E+02	1.915E+01	9.423E-05	304.702
1045	2.856E+02	1.916E+01	9.534E-05	304.724
1046	2.856E+02	1.917E+01	9.645E-05	304.746
1047	2.856E+02	1.918E+01	9.758E-05	304.767
1048	2.856E+02	1.919E+01	9.872E-05	304.789
1049	2.856E+02	1.920E+01	9.988E-05	304.810
1050	2.856E+02	1.921E+01	1.010E-04	304.832
1051	2.856E+02	1.922E+01	1.022E-04	304.853
1052	2.856E+02	1.923E+01	1.034E-04	304.875
1053	2.857E+02	1.924E+01	1.046E-04	304.896
1054	2.857E+02	1.925E+01	1.058E-04	304.918
1055	2.857E+02	1.926E+01	1.070E-04	304.939
1056	2.857E+02	1.927E+01	1.083E-04	304.961
1057	2.857E+02	1.928E+01	1.095E-04	304.982
1058	2.857E+02	1.929E+01	1.108E-04	305.003
1059	2.857E+02	1.930E+01	1.121E-04	305.025
1060	2.857E+02	1.931E+01	1.134E-04	305.046
1061	2.857E+02	1.932E+01	1.147E-04	305.068

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1062	2.858E+02	1.933E+01	1.160E-04	305.089
1063	2.858E+02	1.934E+01	1.173E-04	305.110
1064	2.858E+02	1.935E+01	1.187E-04	305.131
1065	2.858E+02	1.936E+01	1.200E-04	305.153
1066	2.858E+02	1.937E+01	1.214E-04	305.174
1067	2.858E+02	1.938E+01	1.228E-04	305.195
1068	2.858E+02	1.939E+01	1.242E-04	305.216
1069	2.858E+02	1.940E+01	1.256E-04	305.238
1070	2.858E+02	1.941E+01	1.270E-04	305.259
1071	2.859E+02	1.942E+01	1.285E-04	305.280
1072	2.859E+02	1.943E+01	1.299E-04	305.301
1073	2.859E+02	1.944E+01	1.314E-04	305.322
1074	2.859E+02	1.945E+01	1.329E-04	305.343
1075	2.859E+02	1.946E+01	1.344E-04	305.364
1076	2.859E+02	1.947E+01	1.359E-04	305.385
1077	2.859E+02	1.948E+01	1.375E-04	305.406
1078	2.859E+02	1.949E+01	1.390E-04	305.427
1079	2.859E+02	1.950E+01	1.406E-04	305.448
1080	2.860E+02	1.951E+01	1.422E-04	305.469
1081	2.860E+02	1.952E+01	1.438E-04	305.490
1082	2.860E+02	1.953E+01	1.454E-04	305.511
1083	2.860E+02	1.954E+01	1.470E-04	305.532
1084	2.860E+02	1.955E+01	1.487E-04	305.553
1085	2.860E+02	1.956E+01	1.503E-04	305.574
1086	2.860E+02	1.958E+01	1.520E-04	305.595
1087	2.860E+02	1.959E+01	1.537E-04	305.616
1088	2.860E+02	1.960E+01	1.554E-04	305.636
1089	2.861E+02	1.961E+01	1.571E-04	305.657
1090	2.861E+02	1.962E+01	1.589E-04	305.678
1091	2.861E+02	1.963E+01	1.607E-04	305.699
1092	2.861E+02	1.964E+01	1.624E-04	305.720
1093	2.861E+02	1.965E+01	1.642E-04	305.740
1094	2.861E+02	1.966E+01	1.661E-04	305.761
1095	2.861E+02	1.967E+01	1.679E-04	305.782
1096	2.861E+02	1.968E+01	1.697E-04	305.802
1097	2.861E+02	1.969E+01	1.716E-04	305.823
1098	2.861E+02	1.970E+01	1.735E-04	305.844
1099	2.862E+02	1.971E+01	1.754E-04	305.864
1100	2.862E+02	1.972E+01	1.773E-04	305.885
1101	2.862E+02	1.973E+01	1.793E-04	305.906
1102	2.862E+02	1.974E+01	1.813E-04	305.926

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1103	2.862E+02	1.975E+01	1.832E-04	305.947
1104	2.862E+02	1.976E+01	1.852E-04	305.967
1105	2.862E+02	1.977E+01	1.873E-04	305.988
1106	2.862E+02	1.978E+01	1.893E-04	306.008
1107	2.862E+02	1.979E+01	1.914E-04	306.029
1108	2.863E+02	1.980E+01	1.935E-04	306.049
1109	2.863E+02	1.981E+01	1.956E-04	306.070
1110	2.863E+02	1.982E+01	1.977E-04	306.090
1111	2.863E+02	1.983E+01	1.998E-04	306.111
1112	2.863E+02	1.984E+01	2.020E-04	306.131
1113	2.863E+02	1.985E+01	2.042E-04	306.152
1114	2.863E+02	1.986E+01	2.064E-04	306.172
1115	2.863E+02	1.987E+01	2.086E-04	306.192
1116	2.863E+02	1.988E+01	2.109E-04	306.213
1117	2.863E+02	1.989E+01	2.132E-04	306.233
1118	2.864E+02	1.990E+01	2.154E-04	306.253
1119	2.864E+02	1.991E+01	2.178E-04	306.274
1120	2.864E+02	1.992E+01	2.201E-04	306.294
1121	2.864E+02	1.993E+01	2.225E-04	306.314
1122	2.864E+02	1.994E+01	2.248E-04	306.334
1123	2.864E+02	1.995E+01	2.272E-04	306.355
1124	2.864E+02	1.996E+01	2.297E-04	306.375
1125	2.864E+02	1.997E+01	2.321E-04	306.395
1126	2.864E+02	1.998E+01	2.346E-04	306.415
1127	2.864E+02	1.999E+01	2.371E-04	306.435
1128	2.865E+02	2.000E+01	2.396E-04	306.455
1129	2.865E+02	2.001E+01	2.422E-04	306.476
1130	2.865E+02	2.002E+01	2.447E-04	306.496
1131	2.865E+02	2.003E+01	2.473E-04	306.516
1132	2.865E+02	2.004E+01	2.500E-04	306.536
1133	2.865E+02	2.005E+01	2.526E-04	306.556
1134	2.865E+02	2.006E+01	2.553E-04	306.576
1135	2.865E+02	2.007E+01	2.580E-04	306.596
1136	2.865E+02	2.008E+01	2.607E-04	306.616
1137	2.865E+02	2.009E+01	2.634E-04	306.636
1138	2.866E+02	2.010E+01	2.662E-04	306.656
1139	2.866E+02	2.011E+01	2.690E-04	306.676
1140	2.866E+02	2.012E+01	2.718E-04	306.696
1141	2.866E+02	2.013E+01	2.747E-04	306.716
1142	2.866E+02	2.014E+01	2.775E-04	306.736
1143	2.866E+02	2.015E+01	2.805E-04	306.756

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1144	2.866E+02	2.016E+01	2.834E-04	306.775
1145	2.866E+02	2.017E+01	2.863E-04	306.795
1146	2.866E+02	2.018E+01	2.893E-04	306.815
1147	2.866E+02	2.019E+01	2.923E-04	306.835
1148	2.867E+02	2.020E+01	2.954E-04	306.855
1149	2.867E+02	2.021E+01	2.984E-04	306.875
1150	2.867E+02	2.022E+01	3.015E-04	306.894
1151	2.867E+02	2.023E+01	3.047E-04	306.914
1152	2.867E+02	2.024E+01	3.078E-04	306.934
1153	2.867E+02	2.025E+01	3.110E-04	306.954
1154	2.867E+02	2.026E+01	3.142E-04	306.973
1155	2.867E+02	2.027E+01	3.175E-04	306.993
1156	2.867E+02	2.028E+01	3.207E-04	307.013
1157	2.867E+02	2.029E+01	3.240E-04	307.032
1158	2.868E+02	2.030E+01	3.274E-04	307.052
1159	2.868E+02	2.031E+01	3.307E-04	307.072
1160	2.868E+02	2.032E+01	3.341E-04	307.091
1161	2.868E+02	2.033E+01	3.375E-04	307.111
1162	2.868E+02	2.034E+01	3.410E-04	307.131
1163	2.868E+02	2.035E+01	3.445E-04	307.150
1164	2.868E+02	2.036E+01	3.480E-04	307.170
1165	2.868E+02	2.037E+01	3.515E-04	307.189
1166	2.868E+02	2.038E+01	3.551E-04	307.209
1167	2.868E+02	2.039E+01	3.587E-04	307.228
1168	2.868E+02	2.040E+01	3.624E-04	307.248
1169	2.869E+02	2.041E+01	3.661E-04	307.267
1170	2.869E+02	2.042E+01	3.698E-04	307.287
1171	2.869E+02	2.043E+01	3.735E-04	307.306
1172	2.869E+02	2.044E+01	3.773E-04	307.326
1173	2.869E+02	2.045E+01	3.811E-04	307.345
1174	2.869E+02	2.046E+01	3.850E-04	307.364
1175	2.869E+02	2.047E+01	3.889E-04	307.384
1176	2.869E+02	2.048E+01	3.928E-04	307.403
1177	2.869E+02	2.049E+01	3.967E-04	307.423
1178	2.869E+02	2.050E+01	4.007E-04	307.442
1179	2.870E+02	2.051E+01	4.047E-04	307.461
1180	2.870E+02	2.052E+01	4.088E-04	307.481
1181	2.870E+02	2.053E+01	4.129E-04	307.500
1182	2.870E+02	2.054E+01	4.170E-04	307.519
1183	2.870E+02	2.055E+01	4.212E-04	307.539
1184	2.870E+02	2.056E+01	4.254E-04	307.558

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1185	2.870E+02	2.057E+01	4.296E-04	307.577
1186	2.870E+02	2.058E+01	4.339E-04	307.596
1187	2.870E+02	2.059E+01	4.382E-04	307.615
1188	2.870E+02	2.060E+01	4.426E-04	307.635
1189	2.870E+02	2.061E+01	4.470E-04	307.654
1190	2.871E+02	2.062E+01	4.514E-04	307.673
1191	2.871E+02	2.063E+01	4.559E-04	307.692
1192	2.871E+02	2.064E+01	4.604E-04	307.711
1193	2.871E+02	2.065E+01	4.650E-04	307.730
1194	2.871E+02	2.066E+01	4.696E-04	307.750
1195	2.871E+02	2.067E+01	4.742E-04	307.769
1196	2.871E+02	2.068E+01	4.789E-04	307.788
1197	2.871E+02	2.069E+01	4.836E-04	307.807
1198	2.871E+02	2.070E+01	4.883E-04	307.826
1199	2.871E+02	2.071E+01	4.931E-04	307.845
1200	2.871E+02	2.072E+01	4.980E-04	307.864
1201	2.872E+02	2.073E+01	5.028E-04	307.883
1202	2.872E+02	2.074E+01	5.078E-04	307.902
1203	2.872E+02	2.075E+01	5.127E-04	307.921
1204	2.872E+02	2.076E+01	5.177E-04	307.940
1205	2.872E+02	2.077E+01	5.228E-04	307.959
1206	2.872E+02	2.078E+01	5.279E-04	307.978
1207	2.872E+02	2.079E+01	5.330E-04	307.997
1208	2.872E+02	2.080E+01	5.382E-04	308.016
1209	2.872E+02	2.081E+01	5.434E-04	308.035
1210	2.872E+02	2.082E+01	5.487E-04	308.053
1211	2.872E+02	2.083E+01	5.540E-04	308.072
1212	2.873E+02	2.084E+01	5.594E-04	308.091
1213	2.873E+02	2.085E+01	5.648E-04	308.110
1214	2.873E+02	2.086E+01	5.703E-04	308.129
1215	2.873E+02	2.087E+01	5.758E-04	308.148
1216	2.873E+02	2.088E+01	5.813E-04	308.166
1217	2.873E+02	2.089E+01	5.869E-04	308.185
1218	2.873E+02	2.090E+01	5.925E-04	308.204
1219	2.873E+02	2.091E+01	5.982E-04	308.223
1220	2.873E+02	2.092E+01	6.040E-04	308.242
1221	2.873E+02	2.093E+01	6.098E-04	308.260
1222	2.873E+02	2.094E+01	6.156E-04	308.279
1223	2.873E+02	2.095E+01	6.215E-04	308.298
1224	2.874E+02	2.096E+01	6.274E-04	308.316
1225	2.874E+02	2.097E+01	6.334E-04	308.335

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1226	2.874E+02	2.098E+01	6.395E-04	308.354
1227	2.874E+02	2.099E+01	6.455E-04	308.372
1228	2.874E+02	2.100E+01	6.517E-04	308.391
1229	2.874E+02	2.101E+01	6.579E-04	308.410
1230	2.874E+02	2.102E+01	6.641E-04	308.428
1231	2.874E+02	2.103E+01	6.704E-04	308.447
1232	2.874E+02	2.104E+01	6.768E-04	308.465
1233	2.874E+02	2.105E+01	6.832E-04	308.484
1234	2.874E+02	2.106E+01	6.896E-04	308.503
1235	2.875E+02	2.107E+01	6.961E-04	308.521
1236	2.875E+02	2.108E+01	7.027E-04	308.540
1237	2.875E+02	2.109E+01	7.093E-04	308.558
1238	2.875E+02	2.110E+01	7.160E-04	308.577
1239	2.875E+02	2.111E+01	7.227E-04	308.595
1240	2.875E+02	2.112E+01	7.295E-04	308.614
1241	2.875E+02	2.113E+01	7.364E-04	308.632
1242	2.875E+02	2.114E+01	7.433E-04	308.651
1243	2.875E+02	2.115E+01	7.502E-04	308.669
1244	2.875E+02	2.116E+01	7.572E-04	308.687
1245	2.875E+02	2.117E+01	7.643E-04	308.706
1246	2.875E+02	2.118E+01	7.714E-04	308.724
1247	2.876E+02	2.119E+01	7.786E-04	308.743
1248	2.876E+02	2.120E+01	7.859E-04	308.761
1249	2.876E+02	2.121E+01	7.932E-04	308.779
1250	2.876E+02	2.122E+01	8.005E-04	308.798
1251	2.876E+02	2.123E+01	8.080E-04	308.816
1252	2.876E+02	2.124E+01	8.155E-04	308.834
1253	2.876E+02	2.125E+01	8.230E-04	308.853
1254	2.876E+02	2.126E+01	8.306E-04	308.871
1255	2.876E+02	2.127E+01	8.383E-04	308.889
1256	2.876E+02	2.128E+01	8.460E-04	308.907
1257	2.876E+02	2.129E+01	8.538E-04	308.926
1258	2.876E+02	2.130E+01	8.617E-04	308.944
1259	2.877E+02	2.131E+01	8.696E-04	308.962
1260	2.877E+02	2.132E+01	8.776E-04	308.980
1261	2.877E+02	2.133E+01	8.857E-04	308.999
1262	2.877E+02	2.134E+01	8.938E-04	309.017
1263	2.877E+02	2.135E+01	9.020E-04	309.035
1264	2.877E+02	2.136E+01	9.102E-04	309.053
1265	2.877E+02	2.137E+01	9.186E-04	309.071
1266	2.877E+02	2.138E+01	9.269E-04	309.089

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1267	2.877E+02	2.139E+01	9.354E-04	309.107
1268	2.877E+02	2.140E+01	9.439E-04	309.126
1269	2.877E+02	2.141E+01	9.525E-04	309.144
1270	2.877E+02	2.142E+01	9.612E-04	309.162
1271	2.878E+02	2.143E+01	9.699E-04	309.180
1272	2.878E+02	2.144E+01	9.787E-04	309.198
1273	2.878E+02	2.145E+01	9.876E-04	309.216
1274	2.878E+02	2.146E+01	9.965E-04	309.234
1275	2.878E+02	2.147E+01	1.006E-03	309.252
1276	2.878E+02	2.148E+01	1.015E-03	309.270
1277	2.878E+02	2.149E+01	1.024E-03	309.288
1278	2.878E+02	2.150E+01	1.033E-03	309.306
1279	2.878E+02	2.151E+01	1.042E-03	309.324
1280	2.878E+02	2.152E+01	1.052E-03	309.342
1281	2.878E+02	2.153E+01	1.061E-03	309.360
1282	2.878E+02	2.154E+01	1.071E-03	309.378
1283	2.878E+02	2.154E+01	1.080E-03	309.396
1284	2.879E+02	2.155E+01	1.090E-03	309.414
1285	2.879E+02	2.156E+01	1.100E-03	309.432
1286	2.879E+02	2.157E+01	1.110E-03	309.449
1287	2.879E+02	2.158E+01	1.119E-03	309.467
1288	2.879E+02	2.159E+01	1.129E-03	309.485
1289	2.879E+02	2.160E+01	1.139E-03	309.503
1290	2.879E+02	2.161E+01	1.150E-03	309.521
1291	2.879E+02	2.162E+01	1.160E-03	309.539
1292	2.879E+02	2.163E+01	1.170E-03	309.557
1293	2.879E+02	2.164E+01	1.181E-03	309.574
1294	2.879E+02	2.165E+01	1.191E-03	309.592
1295	2.879E+02	2.166E+01	1.202E-03	309.610
1296	2.880E+02	2.167E+01	1.212E-03	309.628
1297	2.880E+02	2.168E+01	1.223E-03	309.645
1298	2.880E+02	2.169E+01	1.234E-03	309.663
1299	2.880E+02	2.170E+01	1.245E-03	309.681
1300	2.880E+02	2.171E+01	1.256E-03	309.699
1301	2.880E+02	2.172E+01	1.267E-03	309.716
1302	2.880E+02	2.173E+01	1.278E-03	309.734
1303	2.880E+02	2.174E+01	1.289E-03	309.752
1304	2.880E+02	2.175E+01	1.300E-03	309.769
1305	2.880E+02	2.176E+01	1.312E-03	309.787
1306	2.880E+02	2.177E+01	1.323E-03	309.805
1307	2.880E+02	2.178E+01	1.335E-03	309.822

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1308	2.880E+02	2.179E+01	1.346E-03	309.840
1309	2.881E+02	2.180E+01	1.358E-03	309.858
1310	2.881E+02	2.181E+01	1.370E-03	309.875
1311	2.881E+02	2.182E+01	1.382E-03	309.893
1312	2.881E+02	2.183E+01	1.394E-03	309.910
1313	2.881E+02	2.184E+01	1.406E-03	309.928
1314	2.881E+02	2.185E+01	1.418E-03	309.946
1315	2.881E+02	2.186E+01	1.430E-03	309.963
1316	2.881E+02	2.187E+01	1.443E-03	309.981
1317	2.881E+02	2.188E+01	1.455E-03	309.998
1318	2.881E+02	2.189E+01	1.468E-03	310.016
1319	2.881E+02	2.190E+01	1.481E-03	310.033
1320	2.881E+02	2.191E+01	1.493E-03	310.051
1321	2.881E+02	2.192E+01	1.506E-03	310.068
1322	2.882E+02	2.193E+01	1.519E-03	310.086
1323	2.882E+02	2.194E+01	1.532E-03	310.103
1324	2.882E+02	2.195E+01	1.545E-03	310.120
1325	2.882E+02	2.196E+01	1.559E-03	310.138
1326	2.882E+02	2.197E+01	1.572E-03	310.155
1327	2.882E+02	2.198E+01	1.586E-03	310.173
1328	2.882E+02	2.199E+01	1.599E-03	310.190
1329	2.882E+02	2.200E+01	1.613E-03	310.208
1330	2.882E+02	2.201E+01	1.626E-03	310.225
1331	2.882E+02	2.202E+01	1.640E-03	310.242
1332	2.882E+02	2.203E+01	1.654E-03	310.260
1333	2.882E+02	2.204E+01	1.668E-03	310.277
1334	2.882E+02	2.205E+01	1.683E-03	310.294
1335	2.883E+02	2.206E+01	1.697E-03	310.312
1336	2.883E+02	2.207E+01	1.711E-03	310.329
1337	2.883E+02	2.208E+01	1.726E-03	310.346
1338	2.883E+02	2.209E+01	1.740E-03	310.363
1339	2.883E+02	2.210E+01	1.755E-03	310.381
1340	2.883E+02	2.211E+01	1.770E-03	310.398
1341	2.883E+02	2.212E+01	1.785E-03	310.415
1342	2.883E+02	2.213E+01	1.800E-03	310.433
1343	2.883E+02	2.214E+01	1.815E-03	310.450
1344	2.883E+02	2.215E+01	1.830E-03	310.467
1345	2.883E+02	2.216E+01	1.846E-03	310.484
1346	2.883E+02	2.217E+01	1.861E-03	310.501
1347	2.883E+02	2.218E+01	1.877E-03	310.519
1348	2.883E+02	2.219E+01	1.893E-03	310.536

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1349	2.884E+02	2.220E+01	1.908E-03	310.553
1350	2.884E+02	2.221E+01	1.924E-03	310.570
1351	2.884E+02	2.222E+01	1.941E-03	310.587
1352	2.884E+02	2.223E+01	1.957E-03	310.604
1353	2.884E+02	2.224E+01	1.973E-03	310.621
1354	2.884E+02	2.225E+01	1.989E-03	310.639
1355	2.884E+02	2.226E+01	2.006E-03	310.656
1356	2.884E+02	2.227E+01	2.023E-03	310.673
1357	2.884E+02	2.228E+01	2.039E-03	310.690
1358	2.884E+02	2.229E+01	2.056E-03	310.707
1359	2.884E+02	2.230E+01	2.073E-03	310.724
1360	2.884E+02	2.231E+01	2.091E-03	310.741
1361	2.884E+02	2.232E+01	2.108E-03	310.758
1362	2.884E+02	2.233E+01	2.125E-03	310.775
1363	2.885E+02	2.234E+01	2.143E-03	310.792
1364	2.885E+02	2.235E+01	2.161E-03	310.809
1365	2.885E+02	2.235E+01	2.178E-03	310.826
1366	2.885E+02	2.236E+01	2.196E-03	310.843
1367	2.885E+02	2.237E+01	2.214E-03	310.860
1368	2.885E+02	2.238E+01	2.232E-03	310.877
1369	2.885E+02	2.239E+01	2.251E-03	310.894
1370	2.885E+02	2.240E+01	2.269E-03	310.911
1371	2.885E+02	2.241E+01	2.288E-03	310.928
1372	2.885E+02	2.242E+01	2.307E-03	310.945
1373	2.885E+02	2.243E+01	2.325E-03	310.962
1374	2.885E+02	2.244E+01	2.344E-03	310.979
1375	2.885E+02	2.245E+01	2.363E-03	310.995
1376	2.885E+02	2.246E+01	2.383E-03	311.012
1377	2.886E+02	2.247E+01	2.402E-03	311.029
1378	2.886E+02	2.248E+01	2.422E-03	311.046
1379	2.886E+02	2.249E+01	2.441E-03	311.063
1380	2.886E+02	2.250E+01	2.461E-03	311.080
1381	2.886E+02	2.251E+01	2.481E-03	311.097
1382	2.886E+02	2.252E+01	2.501E-03	311.113
1383	2.886E+02	2.253E+01	2.521E-03	311.130
1384	2.886E+02	2.254E+01	2.542E-03	311.147
1385	2.886E+02	2.255E+01	2.562E-03	311.164
1386	2.886E+02	2.256E+01	2.583E-03	311.181
1387	2.886E+02	2.257E+01	2.604E-03	311.197
1388	2.886E+02	2.258E+01	2.625E-03	311.214
1389	2.886E+02	2.259E+01	2.646E-03	311.231

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1390	2.886E+02	2.260E+01	2.667E-03	311.248
1391	2.887E+02	2.261E+01	2.688E-03	311.264
1392	2.887E+02	2.262E+01	2.710E-03	311.281
1393	2.887E+02	2.263E+01	2.732E-03	311.298
1394	2.887E+02	2.264E+01	2.753E-03	311.314
1395	2.887E+02	2.265E+01	2.775E-03	311.331
1396	2.887E+02	2.266E+01	2.798E-03	311.348
1397	2.887E+02	2.267E+01	2.820E-03	311.365
1398	2.887E+02	2.268E+01	2.842E-03	311.381
1399	2.887E+02	2.269E+01	2.865E-03	311.398
1400	2.887E+02	2.270E+01	2.888E-03	311.414
1401	2.887E+02	2.271E+01	2.911E-03	311.431
1402	2.887E+02	2.272E+01	2.934E-03	311.448
1403	2.887E+02	2.273E+01	2.957E-03	311.464
1404	2.887E+02	2.274E+01	2.981E-03	311.481
1405	2.887E+02	2.275E+01	3.004E-03	311.498
1406	2.888E+02	2.276E+01	3.028E-03	311.514
1407	2.888E+02	2.277E+01	3.052E-03	311.531
1408	2.888E+02	2.278E+01	3.076E-03	311.547
1409	2.888E+02	2.279E+01	3.100E-03	311.564
1410	2.888E+02	2.280E+01	3.124E-03	311.580
1411	2.888E+02	2.281E+01	3.149E-03	311.597
1412	2.888E+02	2.282E+01	3.174E-03	311.613
1413	2.888E+02	2.283E+01	3.199E-03	311.630
1414	2.888E+02	2.284E+01	3.224E-03	311.646
1415	2.888E+02	2.285E+01	3.249E-03	311.663
1416	2.888E+02	2.286E+01	3.274E-03	311.679
1417	2.888E+02	2.287E+01	3.300E-03	311.696
1418	2.888E+02	2.288E+01	3.326E-03	311.712
1419	2.888E+02	2.289E+01	3.352E-03	311.729
1420	2.888E+02	2.290E+01	3.378E-03	311.745
1421	2.889E+02	2.290E+01	3.404E-03	311.762
1422	2.889E+02	2.291E+01	3.431E-03	311.778
1423	2.889E+02	2.292E+01	3.457E-03	311.794
1424	2.889E+02	2.293E+01	3.484E-03	311.811
1425	2.889E+02	2.294E+01	3.511E-03	311.827
1426	2.889E+02	2.295E+01	3.538E-03	311.844
1427	2.889E+02	2.296E+01	3.566E-03	311.860
1428	2.889E+02	2.297E+01	3.593E-03	311.876
1429	2.889E+02	2.298E+01	3.621E-03	311.893
1430	2.889E+02	2.299E+01	3.649E-03	311.909

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1431	2.889E+02	2.300E+01	3.677E-03	311.925
1432	2.889E+02	2.301E+01	3.706E-03	311.942
1433	2.889E+02	2.302E+01	3.734E-03	311.958
1434	2.889E+02	2.303E+01	3.763E-03	311.974
1435	2.889E+02	2.304E+01	3.792E-03	311.991
1436	2.890E+02	2.305E+01	3.821E-03	312.007
1437	2.890E+02	2.306E+01	3.850E-03	312.023
1438	2.890E+02	2.307E+01	3.880E-03	312.040
1439	2.890E+02	2.308E+01	3.909E-03	312.056
1440	2.890E+02	2.309E+01	3.939E-03	312.072
1441	2.890E+02	2.310E+01	3.969E-03	312.088
1442	2.890E+02	2.311E+01	4.000E-03	312.105
1443	2.890E+02	2.312E+01	4.030E-03	312.121
1444	2.890E+02	2.313E+01	4.061E-03	312.137
1445	2.890E+02	2.314E+01	4.092E-03	312.153
1446	2.890E+02	2.315E+01	4.123E-03	312.170
1447	2.890E+02	2.316E+01	4.154E-03	312.186
1448	2.890E+02	2.317E+01	4.185E-03	312.202
1449	2.890E+02	2.318E+01	4.217E-03	312.218
1450	2.890E+02	2.319E+01	4.249E-03	312.234
1451	2.890E+02	2.320E+01	4.281E-03	312.250
1452	2.891E+02	2.321E+01	4.314E-03	312.267
1453	2.891E+02	2.322E+01	4.346E-03	312.283
1454	2.891E+02	2.323E+01	4.379E-03	312.299
1455	2.891E+02	2.324E+01	4.412E-03	312.315
1456	2.891E+02	2.325E+01	4.445E-03	312.331
1457	2.891E+02	2.326E+01	4.478E-03	312.347
1458	2.891E+02	2.327E+01	4.512E-03	312.363
1459	2.891E+02	2.328E+01	4.546E-03	312.379
1460	2.891E+02	2.329E+01	4.580E-03	312.395
1461	2.891E+02	2.330E+01	4.614E-03	312.412
1462	2.891E+02	2.331E+01	4.649E-03	312.428
1463	2.891E+02	2.332E+01	4.684E-03	312.444
1464	2.891E+02	2.333E+01	4.719E-03	312.460
1465	2.891E+02	2.334E+01	4.754E-03	312.476
1466	2.891E+02	2.335E+01	4.789E-03	312.492
1467	2.891E+02	2.335E+01	4.825E-03	312.508
1468	2.892E+02	2.336E+01	4.861E-03	312.524
1469	2.892E+02	2.337E+01	4.897E-03	312.540
1470	2.892E+02	2.338E+01	4.933E-03	312.556
1471	2.892E+02	2.339E+01	4.970E-03	312.572

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1472	2.892E+02	2.340E+01	5.007E-03	312.588
1473	2.892E+02	2.341E+01	5.044E-03	312.604
1474	2.892E+02	2.342E+01	5.081E-03	312.620
1475	2.892E+02	2.343E+01	5.118E-03	312.636
1476	2.892E+02	2.344E+01	5.156E-03	312.652
1477	2.892E+02	2.345E+01	5.194E-03	312.668
1478	2.892E+02	2.346E+01	5.232E-03	312.683
1479	2.892E+02	2.347E+01	5.271E-03	312.699
1480	2.892E+02	2.348E+01	5.310E-03	312.715
1481	2.892E+02	2.349E+01	5.349E-03	312.731
1482	2.892E+02	2.350E+01	5.388E-03	312.747
1483	2.892E+02	2.351E+01	5.427E-03	312.763
1484	2.893E+02	2.352E+01	5.467E-03	312.779
1485	2.893E+02	2.353E+01	5.507E-03	312.795
1486	2.893E+02	2.354E+01	5.547E-03	312.811
1487	2.893E+02	2.355E+01	5.588E-03	312.826
1488	2.893E+02	2.356E+01	5.629E-03	312.842
1489	2.893E+02	2.357E+01	5.670E-03	312.858
1490	2.893E+02	2.358E+01	5.711E-03	312.874
1491	2.893E+02	2.359E+01	5.753E-03	312.890
1492	2.893E+02	2.360E+01	5.794E-03	312.905
1493	2.893E+02	2.361E+01	5.836E-03	312.921
1494	2.893E+02	2.362E+01	5.879E-03	312.937
1495	2.893E+02	2.363E+01	5.921E-03	312.953
1496	2.893E+02	2.364E+01	5.964E-03	312.969
1497	2.893E+02	2.365E+01	6.007E-03	312.984
1498	2.893E+02	2.366E+01	6.051E-03	313.000
1499	2.893E+02	2.367E+01	6.095E-03	313.016
1500	2.893E+02	2.368E+01	6.138E-03	313.032
1501	2.894E+02	2.369E+01	6.183E-03	313.047
1502	2.894E+02	2.370E+01	6.227E-03	313.063
1503	2.894E+02	2.371E+01	6.272E-03	313.079
1504	2.894E+02	2.372E+01	6.317E-03	313.095
1505	2.894E+02	2.373E+01	6.362E-03	313.110
1506	2.894E+02	2.374E+01	6.408E-03	313.126
1507	2.894E+02	2.374E+01	6.454E-03	313.142
1508	2.894E+02	2.375E+01	6.500E-03	313.157
1509	2.894E+02	2.376E+01	6.547E-03	313.173
1510	2.894E+02	2.377E+01	6.593E-03	313.189
1511	2.894E+02	2.378E+01	6.640E-03	313.204
1512	2.894E+02	2.379E+01	6.688E-03	313.220

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1513	2.894E+02	2.380E+01	6.735E-03	313.236
1514	2.894E+02	2.381E+01	6.783E-03	313.251
1515	2.894E+02	2.382E+01	6.832E-03	313.267
1516	2.894E+02	2.383E+01	6.880E-03	313.282
1517	2.894E+02	2.384E+01	6.929E-03	313.298
1518	2.895E+02	2.385E+01	6.978E-03	313.314
1519	2.895E+02	2.386E+01	7.028E-03	313.329
1520	2.895E+02	2.387E+01	7.077E-03	313.345
1521	2.895E+02	2.388E+01	7.127E-03	313.360
1522	2.895E+02	2.389E+01	7.178E-03	313.376
1523	2.895E+02	2.390E+01	7.228E-03	313.391
1524	2.895E+02	2.391E+01	7.279E-03	313.407
1525	2.895E+02	2.392E+01	7.331E-03	313.423
1526	2.895E+02	2.393E+01	7.382E-03	313.438
1527	2.895E+02	2.394E+01	7.434E-03	313.454
1528	2.895E+02	2.395E+01	7.486E-03	313.469
1529	2.895E+02	2.396E+01	7.539E-03	313.485
1530	2.895E+02	2.397E+01	7.592E-03	313.500
1531	2.895E+02	2.398E+01	7.645E-03	313.516
1532	2.895E+02	2.399E+01	7.698E-03	313.531
1533	2.895E+02	2.400E+01	7.752E-03	313.547
1534	2.895E+02	2.401E+01	7.806E-03	313.562
1535	2.896E+02	2.402E+01	7.861E-03	313.578
1536	2.896E+02	2.403E+01	7.916E-03	313.593
1537	2.896E+02	2.404E+01	7.971E-03	313.608
1538	2.896E+02	2.405E+01	8.026E-03	313.624
1539	2.896E+02	2.406E+01	8.082E-03	313.639
1540	2.896E+02	2.407E+01	8.138E-03	313.655
1541	2.896E+02	2.408E+01	8.195E-03	313.670
1542	2.896E+02	2.408E+01	8.251E-03	313.686
1543	2.896E+02	2.409E+01	8.308E-03	313.701
1544	2.896E+02	2.410E+01	8.366E-03	313.716
1545	2.896E+02	2.411E+01	8.424E-03	313.732
1546	2.896E+02	2.412E+01	8.482E-03	313.747
1547	2.896E+02	2.413E+01	8.541E-03	313.763
1548	2.896E+02	2.414E+01	8.599E-03	313.778
1549	2.896E+02	2.415E+01	8.659E-03	313.793
1550	2.896E+02	2.416E+01	8.718E-03	313.809
1551	2.896E+02	2.417E+01	8.778E-03	313.824
1552	2.896E+02	2.418E+01	8.838E-03	313.839
1553	2.897E+02	2.419E+01	8.899E-03	313.855

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1554	2.897E+02	2.420E+01	8.960E-03	313.870
1555	2.897E+02	2.421E+01	9.021E-03	313.885
1556	2.897E+02	2.422E+01	9.083E-03	313.901
1557	2.897E+02	2.423E+01	9.145E-03	313.916
1558	2.897E+02	2.424E+01	9.208E-03	313.931
1559	2.897E+02	2.425E+01	9.271E-03	313.946
1560	2.897E+02	2.426E+01	9.334E-03	313.962
1561	2.897E+02	2.427E+01	9.397E-03	313.977
1562	2.897E+02	2.428E+01	9.461E-03	313.992
1563	2.897E+02	2.429E+01	9.526E-03	314.007
1564	2.897E+02	2.430E+01	9.590E-03	314.023
1565	2.897E+02	2.431E+01	9.655E-03	314.038
1566	2.897E+02	2.432E+01	9.721E-03	314.053
1567	2.897E+02	2.433E+01	9.787E-03	314.068
1568	2.897E+02	2.434E+01	9.853E-03	314.084
1569	2.897E+02	2.435E+01	9.919E-03	314.099
1570	2.897E+02	2.436E+01	9.986E-03	314.114
1571	2.898E+02	2.437E+01	1.005E-02	314.129
1572	2.898E+02	2.438E+01	1.012E-02	314.144
1573	2.898E+02	2.439E+01	1.019E-02	314.160
1574	2.898E+02	2.440E+01	1.026E-02	314.175
1575	2.898E+02	2.440E+01	1.033E-02	314.190
1576	2.898E+02	2.441E+01	1.040E-02	314.205
1577	2.898E+02	2.442E+01	1.047E-02	314.220
1578	2.898E+02	2.443E+01	1.054E-02	314.235
1579	2.898E+02	2.444E+01	1.061E-02	314.251
1580	2.898E+02	2.445E+01	1.068E-02	314.266
1581	2.898E+02	2.446E+01	1.075E-02	314.281
1582	2.898E+02	2.447E+01	1.082E-02	314.296
1583	2.898E+02	2.448E+01	1.089E-02	314.311
1584	2.898E+02	2.449E+01	1.097E-02	314.326
1585	2.898E+02	2.450E+01	1.104E-02	314.341
1586	2.898E+02	2.451E+01	1.111E-02	314.356
1587	2.898E+02	2.452E+01	1.119E-02	314.371
1588	2.898E+02	2.453E+01	1.126E-02	314.387
1589	2.899E+02	2.454E+01	1.134E-02	314.402
1590	2.899E+02	2.455E+01	1.141E-02	314.417
1591	2.899E+02	2.456E+01	1.149E-02	314.432
1592	2.899E+02	2.457E+01	1.156E-02	314.447
1593	2.899E+02	2.458E+01	1.164E-02	314.462
1594	2.899E+02	2.459E+01	1.172E-02	314.477

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1595	2.899E+02	2.460E+01	1.179E-02	314.492
1596	2.899E+02	2.461E+01	1.187E-02	314.507
1597	2.899E+02	2.462E+01	1.195E-02	314.522
1598	2.899E+02	2.463E+01	1.203E-02	314.537
1599	2.899E+02	2.464E+01	1.211E-02	314.552
1600	2.899E+02	2.465E+01	1.219E-02	314.567
1601	2.899E+02	2.466E+01	1.227E-02	314.582
1602	2.899E+02	2.467E+01	1.235E-02	314.597
1603	2.899E+02	2.468E+01	1.243E-02	314.612
1604	2.899E+02	2.469E+01	1.251E-02	314.627
1605	2.899E+02	2.469E+01	1.259E-02	314.642
1606	2.899E+02	2.470E+01	1.267E-02	314.657
1607	2.899E+02	2.471E+01	1.276E-02	314.672
1608	2.900E+02	2.472E+01	1.284E-02	314.687
1609	2.900E+02	2.473E+01	1.292E-02	314.702
1610	2.900E+02	2.474E+01	1.301E-02	314.717
1611	2.900E+02	2.475E+01	1.309E-02	314.731
1612	2.900E+02	2.476E+01	1.318E-02	314.746
1613	2.900E+02	2.477E+01	1.326E-02	314.761
1614	2.900E+02	2.478E+01	1.335E-02	314.776
1615	2.900E+02	2.479E+01	1.344E-02	314.791
1616	2.900E+02	2.480E+01	1.352E-02	314.806
1617	2.900E+02	2.481E+01	1.361E-02	314.821
1618	2.900E+02	2.482E+01	1.370E-02	314.836
1619	2.900E+02	2.483E+01	1.379E-02	314.851
1620	2.900E+02	2.484E+01	1.388E-02	314.865
1621	2.900E+02	2.485E+01	1.396E-02	314.880
1622	2.900E+02	2.486E+01	1.405E-02	314.895
1623	2.900E+02	2.487E+01	1.415E-02	314.910
1624	2.900E+02	2.488E+01	1.424E-02	314.925
1625	2.900E+02	2.489E+01	1.433E-02	314.940
1626	2.900E+02	2.490E+01	1.442E-02	314.955
1627	2.900E+02	2.491E+01	1.451E-02	314.969
1628	2.901E+02	2.492E+01	1.460E-02	314.984
1629	2.901E+02	2.493E+01	1.470E-02	314.999
1630	2.901E+02	2.494E+01	1.479E-02	315.014
1631	2.901E+02	2.495E+01	1.489E-02	315.029
1632	2.901E+02	2.496E+01	1.498E-02	315.043
1633	2.901E+02	2.496E+01	1.508E-02	315.058
1634	2.901E+02	2.497E+01	1.517E-02	315.073
1635	2.901E+02	2.498E+01	1.527E-02	315.088

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1636	2.901E+02	2.499E+01	1.537E-02	315.102
1637	2.901E+02	2.500E+01	1.546E-02	315.117
1638	2.901E+02	2.501E+01	1.556E-02	315.132
1639	2.901E+02	2.502E+01	1.566E-02	315.147
1640	2.901E+02	2.503E+01	1.576E-02	315.161
1641	2.901E+02	2.504E+01	1.586E-02	315.176
1642	2.901E+02	2.505E+01	1.596E-02	315.191
1643	2.901E+02	2.506E+01	1.606E-02	315.206
1644	2.901E+02	2.507E+01	1.616E-02	315.220
1645	2.901E+02	2.508E+01	1.627E-02	315.235
1646	2.901E+02	2.509E+01	1.637E-02	315.250
1647	2.901E+02	2.510E+01	1.647E-02	315.264
1648	2.902E+02	2.511E+01	1.657E-02	315.279
1649	2.902E+02	2.512E+01	1.668E-02	315.294
1650	2.902E+02	2.513E+01	1.678E-02	315.308
1651	2.902E+02	2.514E+01	1.689E-02	315.323
1652	2.902E+02	2.515E+01	1.700E-02	315.338
1653	2.902E+02	2.516E+01	1.710E-02	315.352
1654	2.902E+02	2.517E+01	1.721E-02	315.367
1655	2.902E+02	2.518E+01	1.732E-02	315.382
1656	2.902E+02	2.519E+01	1.742E-02	315.396
1657	2.902E+02	2.520E+01	1.753E-02	315.411
1658	2.902E+02	2.521E+01	1.764E-02	315.426
1659	2.902E+02	2.522E+01	1.775E-02	315.440
1660	2.902E+02	2.522E+01	1.786E-02	315.455
1661	2.902E+02	2.523E+01	1.797E-02	315.469
1662	2.902E+02	2.524E+01	1.809E-02	315.484
1663	2.902E+02	2.525E+01	1.820E-02	315.499
1664	2.902E+02	2.526E+01	1.831E-02	315.513
1665	2.902E+02	2.527E+01	1.842E-02	315.528
1666	2.902E+02	2.528E+01	1.854E-02	315.542
1667	2.902E+02	2.529E+01	1.865E-02	315.557
1668	2.903E+02	2.530E+01	1.877E-02	315.572
1669	2.903E+02	2.531E+01	1.888E-02	315.586
1670	2.903E+02	2.532E+01	1.900E-02	315.601
1671	2.903E+02	2.533E+01	1.912E-02	315.615
1672	2.903E+02	2.534E+01	1.924E-02	315.630
1673	2.903E+02	2.535E+01	1.935E-02	315.644
1674	2.903E+02	2.536E+01	1.947E-02	315.659
1675	2.903E+02	2.537E+01	1.959E-02	315.673
1676	2.903E+02	2.538E+01	1.971E-02	315.688

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1677	2.903E+02	2.539E+01	1.983E-02	315.702
1678	2.903E+02	2.540E+01	1.996E-02	315.717
1679	2.903E+02	2.541E+01	2.008E-02	315.731
1680	2.903E+02	2.542E+01	2.020E-02	315.746
1681	2.903E+02	2.543E+01	2.032E-02	315.760
1682	2.903E+02	2.544E+01	2.045E-02	315.775
1683	2.903E+02	2.545E+01	2.057E-02	315.789
1684	2.903E+02	2.546E+01	2.070E-02	315.804
1685	2.903E+02	2.547E+01	2.082E-02	315.818
1686	2.903E+02	2.547E+01	2.095E-02	315.833
1687	2.903E+02	2.548E+01	2.108E-02	315.847
1688	2.903E+02	2.549E+01	2.121E-02	315.862
1689	2.904E+02	2.550E+01	2.134E-02	315.876
1690	2.904E+02	2.551E+01	2.146E-02	315.891
1691	2.904E+02	2.552E+01	2.159E-02	315.905
1692	2.904E+02	2.553E+01	2.173E-02	315.919
1693	2.904E+02	2.554E+01	2.186E-02	315.934
1694	2.904E+02	2.555E+01	2.199E-02	315.948
1695	2.904E+02	2.556E+01	2.212E-02	315.963
1696	2.904E+02	2.557E+01	2.226E-02	315.977
1697	2.904E+02	2.558E+01	2.239E-02	315.991
1698	2.904E+02	2.559E+01	2.252E-02	316.006
1699	2.904E+02	2.560E+01	2.266E-02	316.020
1700	2.904E+02	2.561E+01	2.280E-02	316.035
1701	2.904E+02	2.562E+01	2.293E-02	316.049
1702	2.904E+02	2.563E+01	2.307E-02	316.063
1703	2.904E+02	2.564E+01	2.321E-02	316.078
1704	2.904E+02	2.565E+01	2.335E-02	316.092
1705	2.904E+02	2.566E+01	2.349E-02	316.106
1706	2.904E+02	2.567E+01	2.363E-02	316.121
1707	2.904E+02	2.568E+01	2.377E-02	316.135
1708	2.904E+02	2.569E+01	2.391E-02	316.149
1709	2.904E+02	2.570E+01	2.405E-02	316.164
1710	2.904E+02	2.570E+01	2.420E-02	316.178
1711	2.905E+02	2.571E+01	2.434E-02	316.192
1712	2.905E+02	2.572E+01	2.449E-02	316.207
1713	2.905E+02	2.573E+01	2.463E-02	316.221
1714	2.905E+02	2.574E+01	2.478E-02	316.235
1715	2.905E+02	2.575E+01	2.492E-02	316.250
1716	2.905E+02	2.576E+01	2.507E-02	316.264
1717	2.905E+02	2.577E+01	2.522E-02	316.278

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1718	2.905E+02	2.578E+01	2.537E-02	316.293
1719	2.905E+02	2.579E+01	2.552E-02	316.307
1720	2.905E+02	2.580E+01	2.567E-02	316.321
1721	2.905E+02	2.581E+01	2.582E-02	316.335
1722	2.905E+02	2.582E+01	2.597E-02	316.350
1723	2.905E+02	2.583E+01	2.613E-02	316.364
1724	2.905E+02	2.584E+01	2.628E-02	316.378
1725	2.905E+02	2.585E+01	2.644E-02	316.392
1726	2.905E+02	2.586E+01	2.659E-02	316.407
1727	2.905E+02	2.587E+01	2.675E-02	316.421
1728	2.905E+02	2.588E+01	2.690E-02	316.435
1729	2.905E+02	2.589E+01	2.706E-02	316.449
1730	2.905E+02	2.590E+01	2.722E-02	316.464
1731	2.905E+02	2.591E+01	2.738E-02	316.478
1732	2.905E+02	2.592E+01	2.754E-02	316.492
1733	2.906E+02	2.593E+01	2.770E-02	316.506
1734	2.906E+02	2.593E+01	2.786E-02	316.520
1735	2.906E+02	2.594E+01	2.802E-02	316.535
1736	2.906E+02	2.595E+01	2.819E-02	316.549
1737	2.906E+02	2.596E+01	2.835E-02	316.563
1738	2.906E+02	2.597E+01	2.852E-02	316.577
1739	2.906E+02	2.598E+01	2.868E-02	316.591
1740	2.906E+02	2.599E+01	2.885E-02	316.606
1741	2.906E+02	2.600E+01	2.902E-02	316.620
1742	2.906E+02	2.601E+01	2.918E-02	316.634
1743	2.906E+02	2.602E+01	2.935E-02	316.648
1744	2.906E+02	2.603E+01	2.952E-02	316.662
1745	2.906E+02	2.604E+01	2.969E-02	316.676
1746	2.906E+02	2.605E+01	2.987E-02	316.690
1747	2.906E+02	2.606E+01	3.004E-02	316.705
1748	2.906E+02	2.607E+01	3.021E-02	316.719
1749	2.906E+02	2.608E+01	3.039E-02	316.733
1750	2.906E+02	2.609E+01	3.056E-02	316.747
1751	2.906E+02	2.610E+01	3.074E-02	316.761
1752	2.906E+02	2.611E+01	3.091E-02	316.775
1753	2.906E+02	2.612E+01	3.109E-02	316.789
1754	2.906E+02	2.613E+01	3.127E-02	316.803
1755	2.907E+02	2.614E+01	3.145E-02	316.818
1756	2.907E+02	2.614E+01	3.163E-02	316.832
1757	2.907E+02	2.615E+01	3.181E-02	316.846
1758	2.907E+02	2.616E+01	3.199E-02	316.860

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1759	2.907E+02	2.617E+01	3.217E-02	316.874
1760	2.907E+02	2.618E+01	3.236E-02	316.888
1761	2.907E+02	2.619E+01	3.254E-02	316.902
1762	2.907E+02	2.620E+01	3.273E-02	316.916
1763	2.907E+02	2.621E+01	3.291E-02	316.930
1764	2.907E+02	2.622E+01	3.310E-02	316.944
1765	2.907E+02	2.623E+01	3.329E-02	316.958
1766	2.907E+02	2.624E+01	3.348E-02	316.972
1767	2.907E+02	2.625E+01	3.367E-02	316.986
1768	2.907E+02	2.626E+01	3.386E-02	317.000
1769	2.907E+02	2.627E+01	3.405E-02	317.014
1770	2.907E+02	2.628E+01	3.424E-02	317.028
1771	2.907E+02	2.629E+01	3.444E-02	317.043
1772	2.907E+02	2.630E+01	3.463E-02	317.057
1773	2.907E+02	2.631E+01	3.483E-02	317.071
1774	2.907E+02	2.632E+01	3.502E-02	317.085
1775	2.907E+02	2.633E+01	3.522E-02	317.099
1776	2.907E+02	2.634E+01	3.542E-02	317.113
1777	2.907E+02	2.635E+01	3.562E-02	317.127
1778	2.907E+02	2.635E+01	3.582E-02	317.141
1779	2.908E+02	2.636E+01	3.602E-02	317.155
1780	2.908E+02	2.637E+01	3.622E-02	317.169
1781	2.908E+02	2.638E+01	3.643E-02	317.182
1782	2.908E+02	2.639E+01	3.663E-02	317.196
1783	2.908E+02	2.640E+01	3.683E-02	317.210
1784	2.908E+02	2.641E+01	3.704E-02	317.224
1785	2.908E+02	2.642E+01	3.725E-02	317.238
1786	2.908E+02	2.643E+01	3.746E-02	317.252
1787	2.908E+02	2.644E+01	3.766E-02	317.266
1788	2.908E+02	2.645E+01	3.787E-02	317.280
1789	2.908E+02	2.646E+01	3.809E-02	317.294
1790	2.908E+02	2.647E+01	3.830E-02	317.308
1791	2.908E+02	2.648E+01	3.851E-02	317.322
1792	2.908E+02	2.649E+01	3.872E-02	317.336
1793	2.908E+02	2.650E+01	3.894E-02	317.350
1794	2.908E+02	2.651E+01	3.915E-02	317.364
1795	2.908E+02	2.652E+01	3.937E-02	317.377
1796	2.908E+02	2.653E+01	3.958E-02	317.391
1797	2.908E+02	2.654E+01	3.979E-02	317.404
1798	2.908E+02	2.654E+01	4.000E-02	317.418
1799	2.908E+02	2.655E+01	4.021E-02	317.431

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1800	2.908E+02	2.656E+01	4.042E-02	317.444
1801	2.908E+02	2.657E+01	4.063E-02	317.457
1802	2.908E+02	2.658E+01	4.084E-02	317.470
1803	2.909E+02	2.659E+01	4.105E-02	317.483
1804	2.909E+02	2.660E+01	4.126E-02	317.496
1805	2.909E+02	2.661E+01	4.147E-02	317.509
1806	2.909E+02	2.662E+01	4.169E-02	317.522
1807	2.909E+02	2.662E+01	4.190E-02	317.535
1808	2.909E+02	2.663E+01	4.211E-02	317.548
1809	2.909E+02	2.664E+01	4.232E-02	317.560
1810	2.909E+02	2.665E+01	4.254E-02	317.573
1811	2.909E+02	2.666E+01	4.275E-02	317.586
1812	2.909E+02	2.667E+01	4.297E-02	317.599
1813	2.909E+02	2.668E+01	4.318E-02	317.611
1814	2.909E+02	2.669E+01	4.340E-02	317.624
1815	2.909E+02	2.669E+01	4.362E-02	317.637
1816	2.909E+02	2.670E+01	4.384E-02	317.650
1817	2.909E+02	2.671E+01	4.405E-02	317.662
1818	2.909E+02	2.672E+01	4.427E-02	317.675
1819	2.909E+02	2.673E+01	4.449E-02	317.688
1820	2.909E+02	2.674E+01	4.472E-02	317.700
1821	2.909E+02	2.675E+01	4.494E-02	317.713
1822	2.909E+02	2.676E+01	4.516E-02	317.725
1823	2.909E+02	2.676E+01	4.538E-02	317.738
1824	2.909E+02	2.677E+01	4.561E-02	317.750
1825	2.909E+02	2.678E+01	4.583E-02	317.763
1826	2.909E+02	2.679E+01	4.606E-02	317.776
1827	2.909E+02	2.680E+01	4.628E-02	317.788
1828	2.909E+02	2.681E+01	4.651E-02	317.801
1829	2.910E+02	2.682E+01	4.674E-02	317.813
1830	2.910E+02	2.682E+01	4.696E-02	317.826
1831	2.910E+02	2.683E+01	4.719E-02	317.838
1832	2.910E+02	2.684E+01	4.742E-02	317.850
1833	2.910E+02	2.685E+01	4.765E-02	317.863
1834	2.910E+02	2.686E+01	4.788E-02	317.875
1835	2.910E+02	2.687E+01	4.812E-02	317.888
1836	2.910E+02	2.688E+01	4.835E-02	317.900
1837	2.910E+02	2.688E+01	4.858E-02	317.913
1838	2.910E+02	2.689E+01	4.882E-02	317.925
1839	2.910E+02	2.690E+01	4.905E-02	317.937
1840	2.910E+02	2.691E+01	4.929E-02	317.950

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1841	2.910E+02	2.692E+01	4.952E-02	317.962
1842	2.910E+02	2.693E+01	4.976E-02	317.974
1843	2.910E+02	2.694E+01	5.000E-02	317.987
1844	2.910E+02	2.694E+01	5.024E-02	317.999
1845	2.910E+02	2.695E+01	5.048E-02	318.011
1846	2.910E+02	2.696E+01	5.072E-02	318.023
1847	2.910E+02	2.697E+01	5.096E-02	318.036
1848	2.910E+02	2.698E+01	5.120E-02	318.048
1849	2.910E+02	2.699E+01	5.144E-02	318.060
1850	2.910E+02	2.700E+01	5.169E-02	318.072
1851	2.910E+02	2.700E+01	5.193E-02	318.084
1852	2.910E+02	2.701E+01	5.218E-02	318.097
1853	2.910E+02	2.702E+01	5.242E-02	318.109
1854	2.910E+02	2.703E+01	5.267E-02	318.121
1855	2.910E+02	2.704E+01	5.292E-02	318.133
1856	2.910E+02	2.705E+01	5.316E-02	318.145
1857	2.910E+02	2.705E+01	5.341E-02	318.157
1858	2.911E+02	2.706E+01	5.366E-02	318.169
1859	2.911E+02	2.707E+01	5.391E-02	318.182
1860	2.911E+02	2.708E+01	5.417E-02	318.194
1861	2.911E+02	2.709E+01	5.442E-02	318.206
1862	2.911E+02	2.710E+01	5.467E-02	318.218
1863	2.911E+02	2.710E+01	5.493E-02	318.230
1864	2.911E+02	2.711E+01	5.518E-02	318.242
1865	2.911E+02	2.712E+01	5.544E-02	318.254
1866	2.911E+02	2.713E+01	5.569E-02	318.266
1867	2.911E+02	2.714E+01	5.595E-02	318.278
1868	2.911E+02	2.715E+01	5.621E-02	318.290
1869	2.911E+02	2.715E+01	5.647E-02	318.302
1870	2.911E+02	2.716E+01	5.673E-02	318.314
1871	2.911E+02	2.717E+01	5.699E-02	318.326
1872	2.911E+02	2.718E+01	5.726E-02	318.338
1873	2.911E+02	2.719E+01	5.752E-02	318.350
1874	2.911E+02	2.720E+01	5.778E-02	318.362
1875	2.911E+02	2.720E+01	5.805E-02	318.374
1876	2.911E+02	2.721E+01	5.832E-02	318.386
1877	2.911E+02	2.722E+01	5.858E-02	318.398
1878	2.911E+02	2.723E+01	5.885E-02	318.410
1879	2.911E+02	2.724E+01	5.912E-02	318.422
1880	2.911E+02	2.725E+01	5.939E-02	318.434
1881	2.911E+02	2.725E+01	5.967E-02	318.446

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1882	2.911E+02	2.726E+01	5.994E-02	318.458
1883	2.911E+02	2.727E+01	6.021E-02	318.470
1884	2.911E+02	2.728E+01	6.049E-02	318.482
1885	2.911E+02	2.729E+01	6.076E-02	318.494
1886	2.911E+02	2.730E+01	6.104E-02	318.506
1887	2.912E+02	2.730E+01	6.132E-02	318.518
1888	2.912E+02	2.731E+01	6.159E-02	318.530
1889	2.912E+02	2.732E+01	6.187E-02	318.542
1890	2.912E+02	2.733E+01	6.215E-02	318.554
1891	2.912E+02	2.734E+01	6.244E-02	318.566
1892	2.912E+02	2.735E+01	6.272E-02	318.578
1893	2.912E+02	2.735E+01	6.300E-02	318.590
1894	2.912E+02	2.736E+01	6.329E-02	318.602
1895	2.912E+02	2.737E+01	6.357E-02	318.613
1896	2.912E+02	2.738E+01	6.386E-02	318.625
1897	2.912E+02	2.739E+01	6.415E-02	318.637
1898	2.912E+02	2.740E+01	6.444E-02	318.649
1899	2.912E+02	2.740E+01	6.473E-02	318.661
1900	2.912E+02	2.741E+01	6.502E-02	318.673
1901	2.912E+02	2.742E+01	6.531E-02	318.685
1902	2.912E+02	2.743E+01	6.560E-02	318.697
1903	2.912E+02	2.744E+01	6.590E-02	318.709
1904	2.912E+02	2.745E+01	6.619E-02	318.720
1905	2.912E+02	2.745E+01	6.649E-02	318.732
1906	2.912E+02	2.746E+01	6.678E-02	318.744
1907	2.912E+02	2.747E+01	6.708E-02	318.756
1908	2.912E+02	2.748E+01	6.738E-02	318.768
1909	2.912E+02	2.749E+01	6.768E-02	318.780
1910	2.912E+02	2.750E+01	6.798E-02	318.791
1911	2.912E+02	2.750E+01	6.828E-02	318.803
1912	2.912E+02	2.751E+01	6.859E-02	318.815
1913	2.912E+02	2.752E+01	6.889E-02	318.827
1914	2.912E+02	2.753E+01	6.920E-02	318.839
1915	2.912E+02	2.754E+01	6.951E-02	318.851
1916	2.912E+02	2.755E+01	6.981E-02	318.862
1917	2.913E+02	2.755E+01	7.012E-02	318.874
1918	2.913E+02	2.756E+01	7.043E-02	318.886
1919	2.913E+02	2.757E+01	7.074E-02	318.898
1920	2.913E+02	2.758E+01	7.105E-02	318.909
1921	2.913E+02	2.759E+01	7.137E-02	318.921
1922	2.913E+02	2.759E+01	7.168E-02	318.933

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1923	2.913E+02	2.760E+01	7.199E-02	318.945
1924	2.913E+02	2.761E+01	7.231E-02	318.956
1925	2.913E+02	2.762E+01	7.262E-02	318.968
1926	2.913E+02	2.763E+01	7.294E-02	318.980
1927	2.913E+02	2.764E+01	7.326E-02	318.991
1928	2.913E+02	2.764E+01	7.358E-02	319.003
1929	2.913E+02	2.765E+01	7.390E-02	319.015
1930	2.913E+02	2.766E+01	7.422E-02	319.026
1931	2.913E+02	2.767E+01	7.454E-02	319.038
1932	2.913E+02	2.768E+01	7.486E-02	319.049
1933	2.913E+02	2.768E+01	7.518E-02	319.061
1934	2.913E+02	2.769E+01	7.551E-02	319.073
1935	2.913E+02	2.770E+01	7.583E-02	319.084
1936	2.913E+02	2.771E+01	7.616E-02	319.096
1937	2.913E+02	2.772E+01	7.648E-02	319.107
1938	2.913E+02	2.772E+01	7.681E-02	319.119
1939	2.913E+02	2.773E+01	7.714E-02	319.130
1940	2.913E+02	2.774E+01	7.747E-02	319.142
1941	2.913E+02	2.775E+01	7.780E-02	319.153
1942	2.913E+02	2.776E+01	7.813E-02	319.165
1943	2.913E+02	2.777E+01	7.846E-02	319.176
1944	2.913E+02	2.777E+01	7.879E-02	319.188
1945	2.913E+02	2.778E+01	7.913E-02	319.199
1946	2.913E+02	2.779E+01	7.946E-02	319.211
1947	2.913E+02	2.780E+01	7.980E-02	319.222
1948	2.913E+02	2.781E+01	8.013E-02	319.233
1949	2.914E+02	2.781E+01	8.047E-02	319.245
1950	2.914E+02	2.782E+01	8.081E-02	319.256
1951	2.914E+02	2.783E+01	8.115E-02	319.268
1952	2.914E+02	2.784E+01	8.149E-02	319.279
1953	2.914E+02	2.785E+01	8.183E-02	319.290
1954	2.914E+02	2.785E+01	8.217E-02	319.302
1955	2.914E+02	2.786E+01	8.251E-02	319.313
1956	2.914E+02	2.787E+01	8.285E-02	319.324
1957	2.914E+02	2.788E+01	8.320E-02	319.336
1958	2.914E+02	2.789E+01	8.354E-02	319.347
1959	2.914E+02	2.789E+01	8.389E-02	319.358
1960	2.914E+02	2.790E+01	8.424E-02	319.369
1961	2.914E+02	2.791E+01	8.458E-02	319.381
1962	2.914E+02	2.792E+01	8.493E-02	319.392
1963	2.914E+02	2.792E+01	8.528E-02	319.403

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
1964	2.914E+02	2.793E+01	8.563E-02	319.414
1965	2.914E+02	2.794E+01	8.599E-02	319.426
1966	2.914E+02	2.795E+01	8.634E-02	319.437
1967	2.914E+02	2.796E+01	8.669E-02	319.448
1968	2.914E+02	2.796E+01	8.705E-02	319.459
1969	2.914E+02	2.797E+01	8.740E-02	319.470
1970	2.914E+02	2.798E+01	8.776E-02	319.482
1971	2.914E+02	2.799E+01	8.811E-02	319.493
1972	2.914E+02	2.800E+01	8.847E-02	319.504
1973	2.914E+02	2.800E+01	8.883E-02	319.515
1974	2.914E+02	2.801E+01	8.919E-02	319.526
1975	2.914E+02	2.802E+01	8.955E-02	319.537
1976	2.914E+02	2.803E+01	8.991E-02	319.548
1977	2.914E+02	2.803E+01	9.028E-02	319.559
1978	2.914E+02	2.804E+01	9.064E-02	319.570
1979	2.914E+02	2.805E+01	9.101E-02	319.581
1980	2.914E+02	2.806E+01	9.137E-02	319.593
1981	2.914E+02	2.807E+01	9.174E-02	319.604
1982	2.914E+02	2.807E+01	9.211E-02	319.615
1983	2.915E+02	2.808E+01	9.248E-02	319.626
1984	2.915E+02	2.809E+01	9.285E-02	319.637
1985	2.915E+02	2.810E+01	9.322E-02	319.648
1986	2.915E+02	2.811E+01	9.359E-02	319.659
1987	2.915E+02	2.811E+01	9.397E-02	319.670
1988	2.915E+02	2.812E+01	9.434E-02	319.681
1989	2.915E+02	2.813E+01	9.472E-02	319.692
1990	2.915E+02	2.814E+01	9.510E-02	319.703
1991	2.915E+02	2.814E+01	9.548E-02	319.714
1992	2.915E+02	2.815E+01	9.586E-02	319.725
1993	2.915E+02	2.816E+01	9.624E-02	319.736
1994	2.915E+02	2.817E+01	9.662E-02	319.747
1995	2.915E+02	2.818E+01	9.701E-02	319.758
1996	2.915E+02	2.818E+01	9.739E-02	319.769
1997	2.915E+02	2.819E+01	9.778E-02	319.780
1998	2.915E+02	2.820E+01	9.817E-02	319.791
1999	2.915E+02	2.821E+01	9.856E-02	319.802
2000	2.915E+02	2.821E+01	9.895E-02	319.813
2001	2.915E+02	2.822E+01	9.934E-02	319.824
2002	2.915E+02	2.823E+01	9.973E-02	319.835
2003	2.915E+02	2.824E+01	1.001E-01	319.846
2004	2.915E+02	2.825E+01	1.005E-01	319.857

	AN	AO	AP	AQ
20	UO2 CP Calculation			
21	Part 1	Part 2	Part 3	Cp
22	-	-	-	j/kg-K
2005	2.915E+02	2.825E+01	1.009E-01	319.868
2006	2.915E+02	2.826E+01	1.013E-01	319.879
2007	2.915E+02	2.827E+01	1.017E-01	319.890
2008	2.915E+02	2.828E+01	1.021E-01	319.901
2009	2.915E+02	2.828E+01	1.025E-01	319.912
2010	2.915E+02	2.829E+01	1.029E-01	319.923
2011	2.915E+02	2.830E+01	1.033E-01	319.934
2012	2.915E+02	2.831E+01	1.037E-01	319.945
2013	2.915E+02	2.832E+01	1.041E-01	319.956
2014	2.915E+02	2.832E+01	1.046E-01	319.967
2015	2.915E+02	2.833E+01	1.050E-01	319.978
2016	2.915E+02	2.834E+01	1.054E-01	319.989
2017	2.915E+02	2.835E+01	1.058E-01	320.000
2018	2.916E+02	2.835E+01	1.062E-01	320.011
2019	2.916E+02	2.836E+01	1.066E-01	320.022
2020	2.916E+02	2.837E+01	1.070E-01	320.033
2021	2.916E+02	2.838E+01	1.075E-01	320.044
2022	2.916E+02	2.839E+01	1.079E-01	320.055
2023	2.916E+02	2.839E+01	1.083E-01	320.066
2024	2.916E+02	2.840E+01	1.087E-01	320.077

	AR	AS	AT
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18			
19	x=AQ24/1000* 0.238845896627	x=MATCH(AF24, \$I\$3:\$I\$16)	x=INDEX(\$L\$3:\$L\$16,AS24)+(AF24- INDEX(\$I\$3:\$I\$16,AS24))*(INDEX(\$L\$3:\$L\$16,AS24+1)- INDEX(\$L\$3:\$L\$16,AS24)) /(INDEX(\$I\$3:\$I\$16,AS23+1)-INDEX(\$I\$3:\$I\$16,AS23))
20	Clad CP Iterpolation		
21	Cp		
22	BTU/lb-F	Match	BTU/lb-F
23	0.058	1	0.068221116
24	0.059	1	0.068253846
25	0.059	1	0.06828649
26	0.059	1	0.068319048
27	0.059	1	0.068351523
28	0.059	1	0.068383914
29	0.059	1	0.068416224
30	0.059	1	0.068448453
31	0.059	1	0.068480602
32	0.059	1	0.068512673
33	0.059	1	0.068544665
34	0.059	1	0.068576581
35	0.059	1	0.068608421
36	0.059	1	0.068640186

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
37	0.059	1	0.068671876
38	0.059	1	0.068703493
39	0.059	1	0.068735038
40	0.059	1	0.06876651
41	0.059	1	0.068797911
42	0.059	1	0.068829242
43	0.059	1	0.068860503
44	0.060	1	0.068891695
45	0.060	1	0.068922819
46	0.060	1	0.068953875
47	0.060	1	0.068984864
48	0.060	1	0.069015786
49	0.060	1	0.069046643
50	0.060	1	0.069077434
51	0.060	1	0.06910816
52	0.060	1	0.069138822
53	0.060	1	0.06916942
54	0.060	1	0.069199955
55	0.060	1	0.069230428
56	0.060	1	0.069260838
57	0.060	1	0.069291187
58	0.060	1	0.069321474
59	0.060	1	0.069351701
60	0.060	1	0.069381867
61	0.060	1	0.069411973
62	0.060	1	0.069442021
63	0.060	1	0.069472009
64	0.060	1	0.069501938
65	0.060	1	0.06953181
66	0.060	1	0.069561623
67	0.061	1	0.069591379
68	0.061	1	0.069621079
69	0.061	1	0.069650721
70	0.061	1	0.069680308
71	0.061	1	0.069709838
72	0.061	1	0.069739313
73	0.061	1	0.069768733
74	0.061	1	0.069798098
75	0.061	1	0.069827409
76	0.061	1	0.069856666
77	0.061	1	0.069885868

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
78	0.061	1	0.069915018
79	0.061	1	0.069944114
80	0.061	1	0.069973157
81	0.061	1	0.070002148
82	0.061	1	0.070031086
83	0.061	1	0.070059973
84	0.061	1	0.070088808
85	0.061	1	0.070117592
86	0.061	1	0.070146324
87	0.061	1	0.070175006
88	0.061	1	0.070203638
89	0.061	1	0.070232219
90	0.061	1	0.07026075
91	0.061	1	0.070289232
92	0.061	1	0.070317665
93	0.062	1	0.070346048
94	0.062	1	0.070374383
95	0.062	1	0.070402668
96	0.062	1	0.070430906
97	0.062	1	0.070459096
98	0.062	1	0.070487238
99	0.062	1	0.070515332
100	0.062	1	0.070543379
101	0.062	1	0.070571379
102	0.062	1	0.070599332
103	0.062	1	0.070627238
104	0.062	1	0.070655099
105	0.062	1	0.070682913
106	0.062	1	0.070710681
107	0.062	1	0.070738404
108	0.062	1	0.070766081
109	0.062	1	0.070793713
110	0.062	1	0.0708213
111	0.062	1	0.070848843
112	0.062	1	0.070876341
113	0.062	1	0.070903795
114	0.062	1	0.070931205
115	0.062	1	0.070958571
116	0.062	1	0.070985893
117	0.062	1	0.071013172
118	0.062	1	0.071040408

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
119	0.062	1	0.071067601
120	0.062	1	0.071094751
121	0.062	1	0.071121859
122	0.062	1	0.071148925
123	0.062	1	0.071175948
124	0.063	1	0.07120293
125	0.063	1	0.071229869
126	0.063	1	0.071256768
127	0.063	1	0.071283625
128	0.063	1	0.071310441
129	0.063	1	0.071337217
130	0.063	1	0.071363951
131	0.063	1	0.071390645
132	0.063	1	0.071417299
133	0.063	1	0.071443913
134	0.063	1	0.071470488
135	0.063	1	0.071497022
136	0.063	1	0.071523517
137	0.063	1	0.071549973
138	0.063	1	0.07157639
139	0.063	1	0.071602768
140	0.063	1	0.071629108
141	0.063	1	0.071655409
142	0.063	1	0.071681672
143	0.063	1	0.071707896
144	0.063	1	0.071734083
145	0.063	1	0.071760232
146	0.063	1	0.071786344
147	0.063	1	0.071812419
148	0.063	1	0.071838456
149	0.063	1	0.071864457
150	0.063	1	0.071890421
151	0.063	1	0.071916348
152	0.063	1	0.071942239
153	0.063	1	0.071968094
154	0.063	1	0.071993913
155	0.063	1	0.072019697
156	0.063	1	0.072045444
157	0.063	1	0.072071157
158	0.063	1	0.072096834
159	0.063	1	0.072122476

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
160	0.064	2	0.072141026
161	0.064	2	0.07215574
162	0.064	2	0.072170436
163	0.064	2	0.072185112
164	0.064	2	0.072199769
165	0.064	2	0.072214407
166	0.064	2	0.072229026
167	0.064	2	0.072243626
168	0.064	2	0.072258207
169	0.064	2	0.07227277
170	0.064	2	0.072287314
171	0.064	2	0.07230184
172	0.064	2	0.072316347
173	0.064	2	0.072330836
174	0.064	2	0.072345307
175	0.064	2	0.07235976
176	0.064	2	0.072374195
177	0.064	2	0.072388612
178	0.064	2	0.072403011
179	0.064	2	0.072417393
180	0.064	2	0.072431758
181	0.064	2	0.072446104
182	0.064	2	0.072460434
183	0.064	2	0.072474746
184	0.064	2	0.072489042
185	0.064	2	0.07250332
186	0.064	2	0.072517581
187	0.064	2	0.072531826
188	0.064	2	0.072546054
189	0.064	2	0.072560265
190	0.064	2	0.07257446
191	0.064	2	0.072588639
192	0.064	2	0.072602801
193	0.064	2	0.072616947
194	0.064	2	0.072631077
195	0.064	2	0.072645191
196	0.064	2	0.072659289
197	0.064	2	0.072673372
198	0.064	2	0.072687438
199	0.064	2	0.07270149
200	0.064	2	0.072715525

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
201	0.064	2	0.072729546
202	0.064	2	0.072743551
203	0.065	2	0.072757541
204	0.065	2	0.072771516
205	0.065	2	0.072785476
206	0.065	2	0.072799422
207	0.065	2	0.072813352
208	0.065	2	0.072827268
209	0.065	2	0.07284117
210	0.065	2	0.072855057
211	0.065	2	0.072868929
212	0.065	2	0.072882788
213	0.065	2	0.072896632
214	0.065	2	0.072910463
215	0.065	2	0.072924279
216	0.065	2	0.072938082
217	0.065	2	0.072951871
218	0.065	2	0.072965646
219	0.065	2	0.072979408
220	0.065	2	0.072993157
221	0.065	2	0.073006892
222	0.065	2	0.073020614
223	0.065	2	0.073034323
224	0.065	2	0.073048019
225	0.065	2	0.073061702
226	0.065	2	0.073075373
227	0.065	2	0.07308903
228	0.065	2	0.073102675
229	0.065	2	0.073116308
230	0.065	2	0.073129928
231	0.065	2	0.073143537
232	0.065	2	0.073157132
233	0.065	2	0.073170716
234	0.065	2	0.073184288
235	0.065	2	0.073197848
236	0.065	2	0.073211397
237	0.065	2	0.073224934
238	0.065	2	0.073238459
239	0.065	2	0.073251973
240	0.065	2	0.073265475
241	0.065	2	0.073278967

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
242	0.065	2	0.073292447
243	0.065	2	0.073305916
244	0.065	2	0.073319375
245	0.065	2	0.073332822
246	0.065	2	0.073346259
247	0.065	2	0.073359685
248	0.065	2	0.073373101
249	0.065	2	0.073386507
250	0.065	2	0.073399902
251	0.065	2	0.073413287
252	0.065	2	0.073426662
253	0.066	2	0.073440026
254	0.066	2	0.073453381
255	0.066	2	0.073466727
256	0.066	2	0.073480062
257	0.066	2	0.073493388
258	0.066	2	0.073506704
259	0.066	2	0.073520011
260	0.066	2	0.073533309
261	0.066	2	0.073546598
262	0.066	2	0.073559877
263	0.066	2	0.073573147
264	0.066	2	0.073586409
265	0.066	2	0.073599661
266	0.066	2	0.073612905
267	0.066	2	0.07362614
268	0.066	2	0.073639367
269	0.066	2	0.073652585
270	0.066	2	0.073665795
271	0.066	2	0.073678997
272	0.066	2	0.07369219
273	0.066	2	0.073705376
274	0.066	2	0.073718553
275	0.066	2	0.073731723
276	0.066	2	0.073744884
277	0.066	2	0.073758038
278	0.066	2	0.073771185
279	0.066	2	0.073784324
280	0.066	2	0.073797455
281	0.066	2	0.073810579
282	0.066	2	0.073823696

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
283	0.066	2	0.073836805
284	0.066	2	0.073849908
285	0.066	2	0.073863003
286	0.066	2	0.073876092
287	0.066	2	0.073889174
288	0.066	2	0.073902249
289	0.066	2	0.073915317
290	0.066	2	0.073928379
291	0.066	2	0.073941434
292	0.066	2	0.073954483
293	0.066	2	0.073967526
294	0.066	2	0.073980562
295	0.066	2	0.073993592
296	0.066	2	0.074006616
297	0.066	2	0.074019634
298	0.066	2	0.074032646
299	0.066	2	0.074045652
300	0.066	2	0.074058653
301	0.066	2	0.074071648
302	0.066	2	0.074084637
303	0.066	2	0.074097621
304	0.066	2	0.074110599
305	0.066	2	0.074123572
306	0.066	2	0.07413654
307	0.066	2	0.074149502
308	0.066	2	0.074162459
309	0.066	2	0.074175412
310	0.066	2	0.074188359
311	0.066	2	0.074201301
312	0.066	2	0.074214238
313	0.066	2	0.074227171
314	0.067	2	0.074240099
315	0.067	2	0.074253022
316	0.067	2	0.074265941
317	0.067	2	0.074278855
318	0.067	2	0.074291765
319	0.067	2	0.074304671
320	0.067	2	0.074317572
321	0.067	2	0.074330469
322	0.067	2	0.074343362
323	0.067	2	0.07435625

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
324	0.067	2	0.074369135
325	0.067	2	0.074382016
326	0.067	2	0.074394893
327	0.067	2	0.074407766
328	0.067	2	0.074420635
329	0.067	2	0.0744335
330	0.067	2	0.074446362
331	0.067	2	0.074459221
332	0.067	2	0.074472075
333	0.067	2	0.074484927
334	0.067	2	0.074497775
335	0.067	2	0.074510619
336	0.067	2	0.07452346
337	0.067	2	0.074536298
338	0.067	2	0.074549133
339	0.067	2	0.074561965
340	0.067	2	0.074574794
341	0.067	2	0.074587619
342	0.067	2	0.074600442
343	0.067	2	0.074613262
344	0.067	2	0.074626079
345	0.067	2	0.074638893
346	0.067	2	0.074651704
347	0.067	2	0.074664513
348	0.067	2	0.074677319
349	0.067	2	0.074690123
350	0.067	2	0.074702924
351	0.067	2	0.074715722
352	0.067	2	0.074728518
353	0.067	2	0.074741311
354	0.067	2	0.074754103
355	0.067	2	0.074766891
356	0.067	2	0.074779678
357	0.067	2	0.074792462
358	0.067	2	0.074805244
359	0.067	2	0.074818024
360	0.067	2	0.074830802
361	0.067	2	0.074843578
362	0.067	2	0.074856352
363	0.067	2	0.074869124
364	0.067	2	0.074881894

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
365	0.067	2	0.074894662
366	0.067	2	0.074907428
367	0.067	2	0.074920192
368	0.067	2	0.074932955
369	0.067	2	0.074945716
370	0.067	2	0.074958475
371	0.067	2	0.074971232
372	0.067	2	0.074983988
373	0.067	2	0.074996742
374	0.067	2	0.075009494
375	0.067	2	0.075022245
376	0.067	2	0.075034995
377	0.067	2	0.075047743
378	0.067	2	0.075060489
379	0.067	2	0.075073234
380	0.067	2	0.075085978
381	0.067	2	0.075098721
382	0.067	2	0.075111462
383	0.067	2	0.075124201
384	0.067	2	0.07513694
385	0.068	2	0.075149677
386	0.068	2	0.075162413
387	0.068	2	0.075175148
388	0.068	2	0.075187881
389	0.068	2	0.075200614
390	0.068	2	0.075213345
391	0.068	2	0.075226075
392	0.068	2	0.075238804
393	0.068	2	0.075251532
394	0.068	2	0.075264259
395	0.068	2	0.075276985
396	0.068	2	0.07528971
397	0.068	2	0.075302434
398	0.068	2	0.075315157
399	0.068	2	0.07532788
400	0.068	2	0.075340601
401	0.068	2	0.075353321
402	0.068	2	0.075366041
403	0.068	2	0.075378759
404	0.068	2	0.075391477
405	0.068	2	0.075404194

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
406	0.068	2	0.07541691
407	0.068	2	0.075429625
408	0.068	2	0.07544234
409	0.068	2	0.075455054
410	0.068	2	0.075467767
411	0.068	2	0.075480479
412	0.068	2	0.075493191
413	0.068	2	0.075505902
414	0.068	2	0.075518612
415	0.068	2	0.075531321
416	0.068	2	0.07554403
417	0.068	2	0.075556738
418	0.068	2	0.075569446
419	0.068	2	0.075582153
420	0.068	2	0.075594859
421	0.068	2	0.075607565
422	0.068	2	0.07562027
423	0.068	2	0.075632974
424	0.068	2	0.075645678
425	0.068	2	0.075658381
426	0.068	2	0.075671084
427	0.068	2	0.075683786
428	0.068	2	0.075696487
429	0.068	2	0.075709188
430	0.068	2	0.075721889
431	0.068	2	0.075734589
432	0.068	2	0.075747288
433	0.068	2	0.075759987
434	0.068	2	0.075772685
435	0.068	2	0.075785383
436	0.068	2	0.07579808
437	0.068	2	0.075810777
438	0.068	2	0.075823473
439	0.068	2	0.075836169
440	0.068	2	0.075848864
441	0.068	2	0.075861559
442	0.068	2	0.075874253
443	0.068	2	0.075886947
444	0.068	2	0.07589964
445	0.068	2	0.075912333
446	0.068	2	0.075925025

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
447	0.068	2	0.075937717
448	0.068	2	0.075950408
449	0.068	2	0.075963099
450	0.068	2	0.07597579
451	0.068	2	0.07598848
452	0.068	2	0.076001169
453	0.068	2	0.076013858
454	0.068	2	0.076026546
455	0.068	2	0.076039234
456	0.068	2	0.076051922
457	0.068	2	0.076064609
458	0.068	2	0.076077295
459	0.068	2	0.076089982
460	0.068	2	0.076102667
461	0.068	2	0.076115352
462	0.068	2	0.076128037
463	0.068	2	0.076140721
464	0.068	2	0.076153405
465	0.068	2	0.076166088
466	0.068	2	0.076178771
467	0.068	2	0.076191453
468	0.068	2	0.076204134
469	0.069	2	0.076216816
470	0.069	2	0.076229496
471	0.069	2	0.076242176
472	0.069	2	0.076254856
473	0.069	2	0.076267535
474	0.069	2	0.076280214
475	0.069	2	0.076292892
476	0.069	2	0.07630557
477	0.069	2	0.076318247
478	0.069	2	0.076330923
479	0.069	2	0.076343599
480	0.069	2	0.076356275
481	0.069	2	0.07636895
482	0.069	2	0.076381624
483	0.069	2	0.076394298
484	0.069	2	0.076406971
485	0.069	2	0.076419644
486	0.069	2	0.076432316
487	0.069	2	0.076444988

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
488	0.069	2	0.076457659
489	0.069	2	0.076470329
490	0.069	2	0.076482999
491	0.069	2	0.076495669
492	0.069	2	0.076508337
493	0.069	2	0.076521005
494	0.069	2	0.076533673
495	0.069	2	0.07654634
496	0.069	2	0.076559006
497	0.069	2	0.076571672
498	0.069	2	0.076584337
499	0.069	2	0.076597001
500	0.069	2	0.076609665
501	0.069	2	0.076622328
502	0.069	2	0.076634991
503	0.069	2	0.076647653
504	0.069	2	0.076660314
505	0.069	2	0.076672974
506	0.069	2	0.076685634
507	0.069	2	0.076698293
508	0.069	2	0.076710952
509	0.069	2	0.07672361
510	0.069	2	0.076736267
511	0.069	2	0.076748923
512	0.069	2	0.076761579
513	0.069	2	0.076774234
514	0.069	2	0.076786889
515	0.069	2	0.076799542
516	0.069	2	0.076812195
517	0.069	2	0.076824847
518	0.069	2	0.076837499
519	0.069	2	0.076850149
520	0.069	2	0.076862799
521	0.069	2	0.076875449
522	0.069	2	0.076888097
523	0.069	2	0.076900745
524	0.069	2	0.076913392
525	0.069	2	0.076926038
526	0.069	2	0.076938683
527	0.069	2	0.076951328
528	0.069	2	0.076963971

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
529	0.069	2	0.076976614
530	0.069	2	0.076989256
531	0.069	2	0.077001898
532	0.069	2	0.077014538
533	0.069	2	0.077027178
534	0.069	2	0.077039817
535	0.069	2	0.077052455
536	0.069	2	0.077065092
537	0.069	2	0.077077728
538	0.069	2	0.077090364
539	0.069	2	0.077102999
540	0.069	2	0.077115632
541	0.069	2	0.077128265
542	0.069	2	0.077140897
543	0.069	2	0.077153528
544	0.069	2	0.077166159
545	0.069	2	0.077178788
546	0.069	2	0.077191416
547	0.069	2	0.077204044
548	0.069	2	0.077216671
549	0.069	2	0.077229296
550	0.069	2	0.077241921
551	0.069	2	0.077254545
552	0.069	2	0.077267168
553	0.069	2	0.07727979
554	0.069	2	0.077292411
555	0.069	2	0.077305032
556	0.069	2	0.077317651
557	0.069	2	0.077330269
558	0.069	2	0.077342886
559	0.069	2	0.077355503
560	0.069	2	0.077368118
561	0.069	2	0.077380732
562	0.069	2	0.077393346
563	0.069	2	0.077405958
564	0.069	2	0.07741857
565	0.069	2	0.07743118
566	0.069	2	0.07744379
567	0.070	2	0.077456398
568	0.070	2	0.077469005
569	0.070	2	0.077481612

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
570	0.070	2	0.077494217
571	0.070	2	0.077506822
572	0.070	2	0.077519425
573	0.070	2	0.077532027
574	0.070	2	0.077544629
575	0.070	2	0.077557229
576	0.070	2	0.077569828
577	0.070	2	0.077582426
578	0.070	2	0.077595023
579	0.070	2	0.077607619
580	0.070	2	0.077620214
581	0.070	2	0.077632808
582	0.070	2	0.077645401
583	0.070	2	0.077657993
584	0.070	2	0.077670583
585	0.070	2	0.077683173
586	0.070	2	0.077695762
587	0.070	2	0.077708349
588	0.070	2	0.077720935
589	0.070	2	0.077733521
590	0.070	2	0.077746105
591	0.070	2	0.077758688
592	0.070	2	0.07777127
593	0.070	2	0.077783851
594	0.070	2	0.07779643
595	0.070	2	0.077809009
596	0.070	2	0.077821586
597	0.070	2	0.077834163
598	0.070	2	0.077846738
599	0.070	2	0.077859312
600	0.070	2	0.077871885
601	0.070	2	0.077884457
602	0.070	2	0.077897027
603	0.070	2	0.077909597
604	0.070	2	0.077922165
605	0.070	2	0.077934732
606	0.070	2	0.077947298
607	0.070	2	0.077959863
608	0.070	2	0.077972427
609	0.070	2	0.077984989
610	0.070	2	0.077997551

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
611	0.070	2	0.078010111
612	0.070	2	0.07802267
613	0.070	2	0.078035228
614	0.070	2	0.078047784
615	0.070	2	0.07806034
616	0.070	2	0.078072894
617	0.070	2	0.078085447
618	0.070	2	0.078097999
619	0.070	2	0.07811055
620	0.070	2	0.078123099
621	0.070	2	0.078135648
622	0.070	2	0.078148195
623	0.070	2	0.078160741
624	0.070	2	0.078173285
625	0.070	2	0.078185829
626	0.070	2	0.078198371
627	0.070	2	0.078210912
628	0.070	2	0.078223452
629	0.070	2	0.078235991
630	0.070	2	0.078248528
631	0.070	2	0.078261064
632	0.070	2	0.078273599
633	0.070	2	0.078286133
634	0.070	2	0.078298665
635	0.070	2	0.078311197
636	0.070	2	0.078323727
637	0.070	2	0.078336256
638	0.070	2	0.078348783
639	0.070	2	0.078361309
640	0.070	2	0.078373834
641	0.070	2	0.078386358
642	0.070	2	0.078398881
643	0.070	2	0.078411402
644	0.070	2	0.078423922
645	0.070	2	0.078436441
646	0.070	2	0.078448959
647	0.070	2	0.078461475
648	0.070	2	0.07847399
649	0.070	2	0.078486504
650	0.070	2	0.078499016
651	0.070	2	0.078511528

Attachment 7

	AR	AS	AT
20			Clad CP Iterpolation
21			Cp
22	BTU/lb-F	Match	BTU/lb-F
652	0.070	2	0.078524038
653	0.070	2	0.078536546
654	0.070	2	0.078549054
655	0.070	2	0.07856156
656	0.070	2	0.078574065
657	0.070	2	0.078586568
658	0.070	2	0.078599071
659	0.070	2	0.078611572
660	0.070	2	0.078624072
661	0.070	2	0.07863657
662	0.070	2	0.078649067
663	0.070	2	0.078661563
664	0.070	2	0.078674058
665	0.070	2	0.078686552
666	0.070	2	0.078699044
667	0.070	2	0.078711535
668	0.070	2	0.078724024
669	0.070	2	0.078736512
670	0.070	2	0.078748999
671	0.070	2	0.078761485
672	0.070	2	0.078773969
673	0.070	2	0.078786452
674	0.070	2	0.078798934
675	0.070	2	0.078811415
676	0.070	2	0.078823894
677	0.070	2	0.078836372
678	0.070	2	0.078848848
679	0.070	2	0.078861324
680	0.070	2	0.078873798
681	0.070	2	0.07888627
682	0.070	2	0.078898742
683	0.070	2	0.078911212
684	0.071	2	0.078923681
685	0.071	2	0.078936148
686	0.071	2	0.078948614
687	0.071	2	0.078961079
688	0.071	2	0.078973543
689	0.071	2	0.078986005
690	0.071	2	0.078998466
691	0.071	2	0.079010926
692	0.071	2	0.079023384

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
693	0.071	2	0.079035841
694	0.071	2	0.079048297
695	0.071	3	0.079060224
696	0.071	3	0.079070301
697	0.071	3	0.079080377
698	0.071	3	0.079090452
699	0.071	3	0.079100526
700	0.071	3	0.079110599
701	0.071	3	0.079120671
702	0.071	3	0.079130742
703	0.071	3	0.079140812
704	0.071	3	0.079150881
705	0.071	3	0.079160949
706	0.071	3	0.079171015
707	0.071	3	0.079181081
708	0.071	3	0.079191146
709	0.071	3	0.07920121
710	0.071	3	0.079211273
711	0.071	3	0.079221334
712	0.071	3	0.079231395
713	0.071	3	0.079241455
714	0.071	3	0.079251513
715	0.071	3	0.079261571
716	0.071	3	0.079271628
717	0.071	3	0.079281683
718	0.071	3	0.079291738
719	0.071	3	0.079301791
720	0.071	3	0.079311844
721	0.071	3	0.079321895
722	0.071	3	0.079331946
723	0.071	3	0.079341995
724	0.071	3	0.079352044
725	0.071	3	0.079362091
726	0.071	3	0.079372138
727	0.071	3	0.079382183
728	0.071	3	0.079392228
729	0.071	3	0.079402271
730	0.071	3	0.079412313
731	0.071	3	0.079422355
732	0.071	3	0.079432395
733	0.071	3	0.079442434

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
734	0.071	3	0.079452473
735	0.071	3	0.07946251
736	0.071	3	0.079472546
737	0.071	3	0.079482582
738	0.071	3	0.079492616
739	0.071	3	0.079502649
740	0.071	3	0.079512681
741	0.071	3	0.079522713
742	0.071	3	0.079532743
743	0.071	3	0.079542772
744	0.071	3	0.0795528
745	0.071	3	0.079562827
746	0.071	3	0.079572854
747	0.071	3	0.079582879
748	0.071	3	0.079592903
749	0.071	3	0.079602926
750	0.071	3	0.079612948
751	0.071	3	0.079622969
752	0.071	3	0.079632989
753	0.071	3	0.079643008
754	0.071	3	0.079653026
755	0.071	3	0.079663043
756	0.071	3	0.079673059
757	0.071	3	0.079683074
758	0.071	3	0.079693088
759	0.071	3	0.079703101
760	0.071	3	0.079713113
761	0.071	3	0.079723124
762	0.071	3	0.079733134
763	0.071	3	0.079743143
764	0.071	3	0.079753151
765	0.071	3	0.079763158
766	0.071	3	0.079773164
767	0.071	3	0.079783169
768	0.071	3	0.079793172
769	0.071	3	0.079803175
770	0.071	3	0.079813177
771	0.071	3	0.079823178
772	0.071	3	0.079833178
773	0.071	3	0.079843176
774	0.071	3	0.079853174

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
775	0.071	3	0.079863171
776	0.071	3	0.079873167
777	0.071	3	0.079883161
778	0.071	3	0.079893155
779	0.071	3	0.079903148
780	0.071	3	0.079913139
781	0.071	3	0.07992313
782	0.071	3	0.07993312
783	0.071	3	0.079943108
784	0.071	3	0.079953096
785	0.071	3	0.079963083
786	0.071	3	0.079973068
787	0.071	3	0.079983053
788	0.071	3	0.079993036
789	0.071	3	0.080003019
790	0.071	3	0.080013
791	0.071	3	0.080022981
792	0.071	3	0.080032961
793	0.071	3	0.080042939
794	0.071	3	0.080052917
795	0.071	3	0.080062893
796	0.071	3	0.080072869
797	0.071	3	0.080082843
798	0.071	3	0.080092817
799	0.071	3	0.080102789
800	0.071	3	0.08011276
801	0.071	3	0.080122731
802	0.071	3	0.0801327
803	0.071	3	0.080142669
804	0.071	3	0.080152636
805	0.071	3	0.080162603
806	0.071	3	0.080172568
807	0.071	3	0.080182532
808	0.071	3	0.080192496
809	0.071	3	0.080202458
810	0.071	3	0.080212419
811	0.071	3	0.08022238
812	0.071	3	0.080232339
813	0.071	3	0.080242297
814	0.071	3	0.080252255
815	0.071	3	0.080262211

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
816	0.071	3	0.080272166
817	0.071	3	0.080282121
818	0.071	3	0.080292074
819	0.071	3	0.080302026
820	0.071	3	0.080311978
821	0.071	3	0.080321928
822	0.071	3	0.080331877
823	0.071	3	0.080341825
824	0.072	3	0.080351773
825	0.072	3	0.080361719
826	0.072	3	0.080371664
827	0.072	3	0.080381608
828	0.072	3	0.080391552
829	0.072	3	0.080401494
830	0.072	3	0.080411435
831	0.072	3	0.080421375
832	0.072	3	0.080431315
833	0.072	3	0.080441253
834	0.072	3	0.08045119
835	0.072	3	0.080461126
836	0.072	3	0.080471062
837	0.072	3	0.080480996
838	0.072	3	0.080490929
839	0.072	3	0.080500861
840	0.072	3	0.080510792
841	0.072	3	0.080520723
842	0.072	3	0.080530652
843	0.072	3	0.08054058
844	0.072	3	0.080550507
845	0.072	3	0.080560434
846	0.072	3	0.080570359
847	0.072	3	0.080580283
848	0.072	3	0.080590206
849	0.072	3	0.080600128
850	0.072	3	0.08061005
851	0.072	3	0.08061997
852	0.072	3	0.080629889
853	0.072	3	0.080639807
854	0.072	3	0.080649725
855	0.072	3	0.080659641
856	0.072	3	0.080669556

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
857	0.072	3	0.08067947
858	0.072	3	0.080689384
859	0.072	3	0.080699296
860	0.072	3	0.080709207
861	0.072	3	0.080719117
862	0.072	3	0.080729027
863	0.072	3	0.080738935
864	0.072	3	0.080748842
865	0.072	3	0.080758748
866	0.072	3	0.080768654
867	0.072	3	0.080778558
868	0.072	3	0.080788461
869	0.072	3	0.080798364
870	0.072	3	0.080808265
871	0.072	3	0.080818165
872	0.072	3	0.080828065
873	0.072	3	0.080837963
874	0.072	3	0.08084786
875	0.072	3	0.080857757
876	0.072	3	0.080867652
877	0.072	3	0.080877547
878	0.072	3	0.08088744
879	0.072	3	0.080897332
880	0.072	3	0.080907224
881	0.072	3	0.080917114
882	0.072	3	0.080927004
883	0.072	3	0.080936892
884	0.072	3	0.08094678
885	0.072	3	0.080956666
886	0.072	3	0.080966552
887	0.072	3	0.080976436
888	0.072	3	0.08098632
889	0.072	3	0.080996202
890	0.072	3	0.081006084
891	0.072	3	0.081015964
892	0.072	3	0.081025844
893	0.072	3	0.081035723
894	0.072	3	0.0810456
895	0.072	3	0.081055477
896	0.072	3	0.081065353
897	0.072	3	0.081075227

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
898	0.072	3	0.081085101
899	0.072	3	0.081094974
900	0.072	3	0.081104846
901	0.072	3	0.081114716
902	0.072	3	0.081124586
903	0.072	3	0.081134455
904	0.072	3	0.081144323
905	0.072	3	0.08115419
906	0.072	3	0.081164055
907	0.072	3	0.08117392
908	0.072	3	0.081183784
909	0.072	3	0.081193647
910	0.072	3	0.081203509
911	0.072	3	0.08121337
912	0.072	3	0.08122323
913	0.072	3	0.081233089
914	0.072	3	0.081242947
915	0.072	3	0.081252804
916	0.072	3	0.08126266
917	0.072	3	0.081272516
918	0.072	3	0.08128237
919	0.072	3	0.081292223
920	0.072	3	0.081302075
921	0.072	3	0.081311926
922	0.072	3	0.081321777
923	0.072	3	0.081331626
924	0.072	3	0.081341474
925	0.072	3	0.081351322
926	0.072	3	0.081361168
927	0.072	3	0.081371013
928	0.072	3	0.081380858
929	0.072	3	0.081390701
930	0.072	3	0.081400544
931	0.072	3	0.081410385
932	0.072	3	0.081420226
933	0.072	3	0.081430065
934	0.072	3	0.081439904
935	0.072	3	0.081449742
936	0.072	3	0.081459578
937	0.072	3	0.081469414
938	0.072	3	0.081479249

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
939	0.072	3	0.081489083
940	0.072	3	0.081498916
941	0.072	3	0.081508747
942	0.072	3	0.081518578
943	0.072	3	0.081528408
944	0.072	3	0.081538237
945	0.072	3	0.081548065
946	0.072	3	0.081557892
947	0.072	3	0.081567718
948	0.072	3	0.081577544
949	0.072	3	0.081587368
950	0.072	3	0.081597191
951	0.072	3	0.081607013
952	0.072	3	0.081616834
953	0.072	3	0.081626655
954	0.072	3	0.081636474
955	0.072	3	0.081646293
956	0.072	3	0.08165611
957	0.072	3	0.081665926
958	0.072	3	0.081675742
959	0.072	3	0.081685557
960	0.072	3	0.08169537
961	0.072	3	0.081705183
962	0.072	3	0.081714995
963	0.072	3	0.081724805
964	0.072	3	0.081734615
965	0.072	3	0.081744424
966	0.072	3	0.081754232
967	0.072	3	0.081764039
968	0.072	3	0.081773845
969	0.072	3	0.08178365
970	0.072	3	0.081793454
971	0.072	3	0.081803257
972	0.072	3	0.081813059
973	0.072	3	0.08182286
974	0.072	3	0.081832661
975	0.072	3	0.08184246
976	0.072	3	0.081852258
977	0.072	3	0.081862056
978	0.072	3	0.081871852
979	0.072	3	0.081881648

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
980	0.072	3	0.081891442
981	0.072	3	0.081901236
982	0.072	3	0.081911029
983	0.072	3	0.08192082
984	0.072	3	0.081930611
985	0.072	3	0.081940401
986	0.072	3	0.08195019
987	0.072	3	0.081959978
988	0.072	3	0.081969765
989	0.072	3	0.081979551
990	0.072	3	0.081989336
991	0.072	3	0.08199912
992	0.073	3	0.082008904
993	0.073	3	0.082018686
994	0.073	3	0.082028467
995	0.073	3	0.082038248
996	0.073	3	0.082048027
997	0.073	3	0.082057806
998	0.073	3	0.082067583
999	0.073	3	0.08207736
1000	0.073	3	0.082087136
1001	0.073	3	0.08209691
1002	0.073	3	0.082106684
1003	0.073	3	0.082116457
1004	0.073	3	0.082126229
1005	0.073	3	0.082136
1006	0.073	3	0.08214577
1007	0.073	3	0.082155539
1008	0.073	3	0.082165308
1009	0.073	3	0.082175075
1010	0.073	3	0.082184841
1011	0.073	3	0.082194607
1012	0.073	3	0.082204371
1013	0.073	3	0.082214135
1014	0.073	3	0.082223897
1015	0.073	3	0.082233659
1016	0.073	3	0.08224342
1017	0.073	3	0.082253179
1018	0.073	3	0.082262938
1019	0.073	3	0.082272696
1020	0.073	3	0.082282453

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1021	0.073	3	0.082292209
1022	0.073	3	0.082301965
1023	0.073	3	0.082311719
1024	0.073	3	0.082321472
1025	0.073	3	0.082331224
1026	0.073	3	0.082340976
1027	0.073	3	0.082350726
1028	0.073	3	0.082360476
1029	0.073	3	0.082370225
1030	0.073	3	0.082379972
1031	0.073	3	0.082389719
1032	0.073	3	0.082399465
1033	0.073	3	0.08240921
1034	0.073	3	0.082418954
1035	0.073	3	0.082428697
1036	0.073	3	0.082438439
1037	0.073	3	0.082448181
1038	0.073	3	0.082457921
1039	0.073	3	0.08246766
1040	0.073	3	0.082477399
1041	0.073	3	0.082487136
1042	0.073	3	0.082496873
1043	0.073	3	0.082506609
1044	0.073	3	0.082516344
1045	0.073	3	0.082526078
1046	0.073	3	0.082535811
1047	0.073	3	0.082545543
1048	0.073	3	0.082555274
1049	0.073	3	0.082565004
1050	0.073	3	0.082574733
1051	0.073	3	0.082584462
1052	0.073	3	0.082594189
1053	0.073	3	0.082603916
1054	0.073	3	0.082613641
1055	0.073	3	0.082623366
1056	0.073	3	0.08263309
1057	0.073	3	0.082642813
1058	0.073	3	0.082652535
1059	0.073	3	0.082662256
1060	0.073	3	0.082671976
1061	0.073	3	0.082681695

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1062	0.073	3	0.082691414
1063	0.073	3	0.082701131
1064	0.073	3	0.082710848
1065	0.073	3	0.082720563
1066	0.073	3	0.082730278
1067	0.073	3	0.082739992
1068	0.073	3	0.082749704
1069	0.073	3	0.082759416
1070	0.073	3	0.082769128
1071	0.073	3	0.082778838
1072	0.073	3	0.082788547
1073	0.073	3	0.082798255
1074	0.073	3	0.082807963
1075	0.073	3	0.082817669
1076	0.073	3	0.082827375
1077	0.073	3	0.082837079
1078	0.073	3	0.082846783
1079	0.073	3	0.082856486
1080	0.073	3	0.082866188
1081	0.073	3	0.082875889
1082	0.073	3	0.082885589
1083	0.073	3	0.082895289
1084	0.073	3	0.082904987
1085	0.073	3	0.082914685
1086	0.073	3	0.082924381
1087	0.073	3	0.082934077
1088	0.073	3	0.082943772
1089	0.073	3	0.082953466
1090	0.073	3	0.082963158
1091	0.073	3	0.082972851
1092	0.073	3	0.082982542
1093	0.073	3	0.082992232
1094	0.073	3	0.083001921
1095	0.073	3	0.08301161
1096	0.073	3	0.083021297
1097	0.073	3	0.083030984
1098	0.073	3	0.08304067
1099	0.073	3	0.083050355
1100	0.073	3	0.083060039
1101	0.073	3	0.083069722
1102	0.073	3	0.083079404

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1103	0.073	3	0.083089086
1104	0.073	3	0.083098766
1105	0.073	3	0.083108446
1106	0.073	3	0.083118124
1107	0.073	3	0.083127802
1108	0.073	3	0.083137479
1109	0.073	3	0.083147155
1110	0.073	3	0.08315683
1111	0.073	3	0.083166504
1112	0.073	3	0.083176177
1113	0.073	3	0.08318585
1114	0.073	3	0.083195521
1115	0.073	3	0.083205192
1116	0.073	3	0.083214862
1117	0.073	3	0.08322453
1118	0.073	3	0.083234198
1119	0.073	3	0.083243865
1120	0.073	3	0.083253532
1121	0.073	3	0.083263197
1122	0.073	3	0.083272861
1123	0.073	3	0.083282525
1124	0.073	3	0.083292188
1125	0.073	3	0.083301849
1126	0.073	3	0.08331151
1127	0.073	3	0.08332117
1128	0.073	3	0.083330829
1129	0.073	3	0.083340488
1130	0.073	3	0.083350145
1131	0.073	3	0.083359801
1132	0.073	3	0.083369457
1133	0.073	3	0.083379112
1134	0.073	3	0.083388766
1135	0.073	3	0.083398418
1136	0.073	3	0.083408071
1137	0.073	3	0.083417722
1138	0.073	3	0.083427372
1139	0.073	3	0.083437021
1140	0.073	3	0.08344667
1141	0.073	3	0.083456318
1142	0.073	3	0.083465964
1143	0.073	3	0.08347561

	AR	AS	AT
20			Clad CP Iterpolation
21			Cp
22	BTU/lb-F	Match	BTU/lb-F
1144	0.073	3	0.083485255
1145	0.073	3	0.0834949
1146	0.073	3	0.083504543
1147	0.073	3	0.083514185
1148	0.073	3	0.083523827
1149	0.073	3	0.083533468
1150	0.073	3	0.083543107
1151	0.073	3	0.083552746
1152	0.073	3	0.083562384
1153	0.073	3	0.083572021
1154	0.073	3	0.083581658
1155	0.073	3	0.083591293
1156	0.073	3	0.083600928
1157	0.073	3	0.083610561
1158	0.073	3	0.083620194
1159	0.073	3	0.083629826
1160	0.073	3	0.083639457
1161	0.073	3	0.083649088
1162	0.073	3	0.083658717
1163	0.073	3	0.083668345
1164	0.073	3	0.083677973
1165	0.073	3	0.0836876
1166	0.073	3	0.083697226
1167	0.073	3	0.083706851
1168	0.073	3	0.083716475
1169	0.073	3	0.083726098
1170	0.073	3	0.08373572
1171	0.073	3	0.083745342
1172	0.073	3	0.083754963
1173	0.073	3	0.083764583
1174	0.073	3	0.083774201
1175	0.073	3	0.08378382
1176	0.073	3	0.083793437
1177	0.073	3	0.083803053
1178	0.073	3	0.083812669
1179	0.073	3	0.083822283
1180	0.073	3	0.083831897
1181	0.073	3	0.08384151
1182	0.073	3	0.083851122
1183	0.073	3	0.083860733
1184	0.073	3	0.083870344

Attachment 7

	AR	AS	AT
20			Clad CP Iterpolation
21			Cp
22	BTU/lb-F	Match	BTU/lb-F
1185	0.073	3	0.083879953
1186	0.073	3	0.083889562
1187	0.073	3	0.08389917
1188	0.073	3	0.083908776
1189	0.073	3	0.083918383
1190	0.073	3	0.083927988
1191	0.073	3	0.083937592
1192	0.073	3	0.083947196
1193	0.074	3	0.083956798
1194	0.074	3	0.0839664
1195	0.074	3	0.083976001
1196	0.074	3	0.083985601
1197	0.074	3	0.0839952
1198	0.074	3	0.084004799
1199	0.074	3	0.084014396
1200	0.074	3	0.084023993
1201	0.074	3	0.084033588
1202	0.074	3	0.084043183
1203	0.074	3	0.084052778
1204	0.074	3	0.084062371
1205	0.074	3	0.084071963
1206	0.074	3	0.084081555
1207	0.074	3	0.084091145
1208	0.074	3	0.084100735
1209	0.074	3	0.084110324
1210	0.074	3	0.084119912
1211	0.074	3	0.0841295
1212	0.074	3	0.084139086
1213	0.074	3	0.084148672
1214	0.074	3	0.084158257
1215	0.074	3	0.084167841
1216	0.074	3	0.084177424
1217	0.074	3	0.084187006
1218	0.074	3	0.084196587
1219	0.074	3	0.084206168
1220	0.074	3	0.084215747
1221	0.074	3	0.084225326
1222	0.074	3	0.084234904
1223	0.074	3	0.084244481
1224	0.074	3	0.084254058
1225	0.074	3	0.084263633

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1226	0.074	3	0.084273208
1227	0.074	3	0.084282782
1228	0.074	3	0.084292355
1229	0.074	3	0.084301927
1230	0.074	3	0.084311498
1231	0.074	3	0.084321068
1232	0.074	3	0.084330638
1233	0.074	3	0.084340207
1234	0.074	3	0.084349775
1235	0.074	3	0.084359342
1236	0.074	3	0.084368908
1237	0.074	3	0.084378473
1238	0.074	3	0.084388038
1239	0.074	3	0.084397602
1240	0.074	3	0.084407165
1241	0.074	3	0.084416727
1242	0.074	3	0.084426288
1243	0.074	3	0.084435848
1244	0.074	3	0.084445408
1245	0.074	3	0.084454967
1246	0.074	3	0.084464524
1247	0.074	3	0.084474081
1248	0.074	3	0.084483638
1249	0.074	3	0.084493193
1250	0.074	3	0.084502748
1251	0.074	3	0.084512301
1252	0.074	3	0.084521854
1253	0.074	3	0.084531406
1254	0.074	3	0.084540958
1255	0.074	3	0.084550508
1256	0.074	3	0.084560057
1257	0.074	3	0.084569606
1258	0.074	3	0.084579154
1259	0.074	3	0.084588701
1260	0.074	3	0.084598247
1261	0.074	3	0.084607793
1262	0.074	3	0.084617338
1263	0.074	3	0.084626881
1264	0.074	3	0.084636424
1265	0.074	3	0.084645966
1266	0.074	3	0.084655508

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1267	0.074	3	0.084665048
1268	0.074	3	0.084674588
1269	0.074	3	0.084684127
1270	0.074	3	0.084693665
1271	0.074	3	0.084703202
1272	0.074	3	0.084712738
1273	0.074	3	0.084722274
1274	0.074	3	0.084731808
1275	0.074	3	0.084741342
1276	0.074	3	0.084750875
1277	0.074	3	0.084760407
1278	0.074	3	0.084769939
1279	0.074	3	0.08477947
1280	0.074	3	0.084788999
1281	0.074	3	0.084798528
1282	0.074	3	0.084808056
1283	0.074	3	0.084817584
1284	0.074	3	0.08482711
1285	0.074	3	0.084836636
1286	0.074	3	0.084846161
1287	0.074	3	0.084855685
1288	0.074	3	0.084865208
1289	0.074	3	0.08487473
1290	0.074	3	0.084884252
1291	0.074	3	0.084893773
1292	0.074	3	0.084903293
1293	0.074	3	0.084912812
1294	0.074	3	0.08492233
1295	0.074	3	0.084931848
1296	0.074	3	0.084941364
1297	0.074	3	0.08495088
1298	0.074	3	0.084960395
1299	0.074	3	0.08496991
1300	0.074	3	0.084979423
1301	0.074	3	0.084988936
1302	0.074	3	0.084998448
1303	0.074	3	0.085007959
1304	0.074	3	0.085017469
1305	0.074	3	0.085026978
1306	0.074	3	0.085036487
1307	0.074	3	0.085045995

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1308	0.074	3	0.085055502
1309	0.074	3	0.085065008
1310	0.074	3	0.085074513
1311	0.074	3	0.085084018
1312	0.074	3	0.085093521
1313	0.074	3	0.085103024
1314	0.074	3	0.085112526
1315	0.074	3	0.085122028
1316	0.074	3	0.085131528
1317	0.074	3	0.085141028
1318	0.074	3	0.085150527
1319	0.074	3	0.085160025
1320	0.074	3	0.085169522
1321	0.074	3	0.085179019
1322	0.074	3	0.085188514
1323	0.074	3	0.085198009
1324	0.074	3	0.085207503
1325	0.074	3	0.085216997
1326	0.074	3	0.085226489
1327	0.074	3	0.085235981
1328	0.074	3	0.085245472
1329	0.074	3	0.085254962
1330	0.074	3	0.085264451
1331	0.074	3	0.085273939
1332	0.074	3	0.085283427
1333	0.074	3	0.085292914
1334	0.074	3	0.0853024
1335	0.074	3	0.085311885
1336	0.074	3	0.08532137
1337	0.074	3	0.085330853
1338	0.074	3	0.085340336
1339	0.074	3	0.085349818
1340	0.074	3	0.085359299
1341	0.074	3	0.08536878
1342	0.074	3	0.08537826
1343	0.074	3	0.085387738
1344	0.074	3	0.085397217
1345	0.074	3	0.085406694
1346	0.074	3	0.08541617
1347	0.074	3	0.085425646
1348	0.074	3	0.085435121

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1349	0.074	3	0.085444595
1350	0.074	3	0.085454068
1351	0.074	3	0.085463541
1352	0.074	3	0.085473013
1353	0.074	3	0.085482483
1354	0.074	3	0.085491954
1355	0.074	3	0.085501423
1356	0.074	3	0.085510892
1357	0.074	3	0.085520359
1358	0.074	3	0.085529826
1359	0.074	3	0.085539292
1360	0.074	3	0.085548758
1361	0.074	3	0.085558222
1362	0.074	3	0.085567686
1363	0.074	3	0.085577149
1364	0.074	3	0.085586612
1365	0.074	3	0.085596073
1366	0.074	3	0.085605534
1367	0.074	3	0.085614994
1368	0.074	3	0.085624453
1369	0.074	3	0.085633911
1370	0.074	3	0.085643368
1371	0.074	3	0.085652825
1372	0.074	3	0.085662281
1373	0.074	3	0.085671736
1374	0.074	3	0.085681191
1375	0.074	3	0.085690644
1376	0.074	3	0.085700097
1377	0.074	3	0.085709549
1378	0.074	3	0.085719
1379	0.074	3	0.085728451
1380	0.074	3	0.085737901
1381	0.074	3	0.085747349
1382	0.074	3	0.085756798
1383	0.074	3	0.085766245
1384	0.074	3	0.085775691
1385	0.074	3	0.085785137
1386	0.074	3	0.085794582
1387	0.074	3	0.085804026
1388	0.074	3	0.08581347
1389	0.074	3	0.085822912

Attachment 7

	AR	AS	AT
20			Clad CP Iterpolation
21			Cp
22	BTU/lb-F	Match	BTU/lb-F
1390	0.074	3	0.085832354
1391	0.074	3	0.085841795
1392	0.074	3	0.085851236
1393	0.074	3	0.085860675
1394	0.074	3	0.085870114
1395	0.074	3	0.085879552
1396	0.074	3	0.085888989
1397	0.074	3	0.085898426
1398	0.074	3	0.085907861
1399	0.074	3	0.085917296
1400	0.074	3	0.08592673
1401	0.074	3	0.085936164
1402	0.074	3	0.085945596
1403	0.074	3	0.085955028
1404	0.074	3	0.085964459
1405	0.074	3	0.085973889
1406	0.074	3	0.085983319
1407	0.074	3	0.085992747
1408	0.074	3	0.086002175
1409	0.074	3	0.086011602
1410	0.074	3	0.086021029
1411	0.074	3	0.086030454
1412	0.074	3	0.086039879
1413	0.074	3	0.086049303
1414	0.074	3	0.086058726
1415	0.074	3	0.086068149
1416	0.074	3	0.086077571
1417	0.074	3	0.086086992
1418	0.074	3	0.086096412
1419	0.074	3	0.086105831
1420	0.074	3	0.08611525
1421	0.074	3	0.086124668
1422	0.074	3	0.086134085
1423	0.074	3	0.086143501
1424	0.074	3	0.086152917
1425	0.074	3	0.086162332
1426	0.074	3	0.086171746
1427	0.074	3	0.086181159
1428	0.074	3	0.086190571
1429	0.074	3	0.086199983
1430	0.074	3	0.086209394

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1431	0.075	3	0.086218804
1432	0.075	3	0.086228214
1433	0.075	3	0.086237623
1434	0.075	3	0.086247031
1435	0.075	3	0.086256438
1436	0.075	3	0.086265844
1437	0.075	3	0.08627525
1438	0.075	3	0.086284655
1439	0.075	3	0.086294059
1440	0.075	3	0.086303462
1441	0.075	3	0.086312865
1442	0.075	3	0.086322267
1443	0.075	3	0.086331668
1444	0.075	3	0.086341068
1445	0.075	3	0.086350468
1446	0.075	3	0.086359866
1447	0.075	3	0.086369264
1448	0.075	3	0.086378662
1449	0.075	3	0.086388058
1450	0.075	3	0.086397454
1451	0.075	3	0.086406849
1452	0.075	3	0.086416243
1453	0.075	3	0.086425637
1454	0.075	3	0.086435029
1455	0.075	3	0.086444421
1456	0.075	3	0.086453813
1457	0.075	3	0.086463203
1458	0.075	3	0.086472593
1459	0.075	3	0.086481982
1460	0.075	3	0.08649137
1461	0.075	3	0.086500757
1462	0.075	3	0.086510144
1463	0.075	3	0.08651953
1464	0.075	3	0.086528915
1465	0.075	3	0.0865383
1466	0.075	3	0.086547683
1467	0.075	3	0.086557066
1468	0.075	3	0.086566448
1469	0.075	3	0.08657583
1470	0.075	3	0.08658521
1471	0.075	3	0.08659459

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1472	0.075	3	0.086603969
1473	0.075	3	0.086613348
1474	0.075	3	0.086622726
1475	0.075	3	0.086632102
1476	0.075	3	0.086641479
1477	0.075	3	0.086650854
1478	0.075	3	0.086660229
1479	0.075	3	0.086669603
1480	0.075	3	0.086678976
1481	0.075	3	0.086688348
1482	0.075	3	0.08669772
1483	0.075	3	0.086707091
1484	0.075	3	0.086716461
1485	0.075	3	0.08672583
1486	0.075	3	0.086735199
1487	0.075	3	0.086744567
1488	0.075	3	0.086753934
1489	0.075	3	0.086763301
1490	0.075	3	0.086772666
1491	0.075	3	0.086782031
1492	0.075	3	0.086791396
1493	0.075	3	0.086800759
1494	0.075	3	0.086810122
1495	0.075	3	0.086819484
1496	0.075	3	0.086828845
1497	0.075	3	0.086838205
1498	0.075	3	0.086847565
1499	0.075	3	0.086856924
1500	0.075	3	0.086866282
1501	0.075	3	0.08687564
1502	0.075	3	0.086884997
1503	0.075	3	0.086894353
1504	0.075	3	0.086903708
1505	0.075	3	0.086913063
1506	0.075	3	0.086922416
1507	0.075	3	0.08693177
1508	0.075	3	0.086941122
1509	0.075	3	0.086950474
1510	0.075	3	0.086959824
1511	0.075	3	0.086969175
1512	0.075	3	0.086978524

Attachment 7

	AR	AS	AT
20			Clad CP Iterpolation
21			Cp
22	BTU/lb-F	Match	BTU/lb-F
1513	0.075	3	0.086987873
1514	0.075	3	0.08699722
1515	0.075	3	0.087006568
1516	0.075	3	0.087015914
1517	0.075	3	0.08702526
1518	0.075	3	0.087034605
1519	0.075	3	0.087043949
1520	0.075	3	0.087053293
1521	0.075	3	0.087062635
1522	0.075	3	0.087071977
1523	0.075	3	0.087081319
1524	0.075	3	0.087090659
1525	0.075	3	0.087099999
1526	0.075	3	0.087109338
1527	0.075	3	0.087118676
1528	0.075	3	0.087128014
1529	0.075	3	0.087137351
1530	0.075	3	0.087146687
1531	0.075	3	0.087156023
1532	0.075	3	0.087165357
1533	0.075	3	0.087174691
1534	0.075	3	0.087184024
1535	0.075	3	0.087193357
1536	0.075	3	0.087202689
1537	0.075	3	0.08721202
1538	0.075	3	0.08722135
1539	0.075	3	0.08723068
1540	0.075	3	0.087240009
1541	0.075	3	0.087249337
1542	0.075	3	0.087258664
1543	0.075	3	0.087267991
1544	0.075	3	0.087277317
1545	0.075	3	0.087286642
1546	0.075	3	0.087295966
1547	0.075	3	0.08730529
1548	0.075	3	0.087314613
1549	0.075	3	0.087323936
1550	0.075	3	0.087333257
1551	0.075	3	0.087342578
1552	0.075	3	0.087351898
1553	0.075	3	0.087361218

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1554	0.075	3	0.087370536
1555	0.075	3	0.087379854
1556	0.075	3	0.087389171
1557	0.075	3	0.087398488
1558	0.075	3	0.087407804
1559	0.075	3	0.087417119
1560	0.075	3	0.087426433
1561	0.075	3	0.087435747
1562	0.075	3	0.08744506
1563	0.075	3	0.087454372
1564	0.075	3	0.087463683
1565	0.075	3	0.087472994
1566	0.075	3	0.087482304
1567	0.075	3	0.087491613
1568	0.075	3	0.087500922
1569	0.075	3	0.08751023
1570	0.075	3	0.087519537
1571	0.075	3	0.087528843
1572	0.075	3	0.087538149
1573	0.075	3	0.087547454
1574	0.075	3	0.087556758
1575	0.075	3	0.087566062
1576	0.075	3	0.087575365
1577	0.075	3	0.087584667
1578	0.075	3	0.087593968
1579	0.075	3	0.087603269
1580	0.075	3	0.087612569
1581	0.075	3	0.087621868
1582	0.075	3	0.087631166
1583	0.075	3	0.087640464
1584	0.075	3	0.087649761
1585	0.075	3	0.087659058
1586	0.075	3	0.087668353
1587	0.075	3	0.087677648
1588	0.075	3	0.087686942
1589	0.075	3	0.087696236
1590	0.075	3	0.087705529
1591	0.075	3	0.087714821
1592	0.075	3	0.087724112
1593	0.075	3	0.087733403
1594	0.075	3	0.087742693

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1595	0.075	3	0.087751982
1596	0.075	3	0.087761271
1597	0.075	3	0.087770558
1598	0.075	3	0.087779845
1599	0.075	3	0.087789132
1600	0.075	3	0.087798418
1601	0.075	3	0.087807702
1602	0.075	3	0.087816987
1603	0.075	3	0.08782627
1604	0.075	3	0.087835553
1605	0.075	3	0.087844835
1606	0.075	3	0.087854117
1607	0.075	3	0.087863397
1608	0.075	3	0.087872677
1609	0.075	3	0.087881957
1610	0.075	3	0.087891235
1611	0.075	3	0.087900513
1612	0.075	3	0.08790979
1613	0.075	3	0.087919067
1614	0.075	3	0.087928342
1615	0.075	3	0.087937618
1616	0.075	3	0.087946892
1617	0.075	3	0.087956166
1618	0.075	3	0.087965438
1619	0.075	3	0.087974711
1620	0.075	3	0.087983982
1621	0.075	3	0.087993253
1622	0.075	3	0.088002523
1623	0.075	3	0.088011792
1624	0.075	3	0.088021061
1625	0.075	3	0.088030329
1626	0.075	3	0.088039596
1627	0.075	3	0.088048863
1628	0.075	3	0.088058129
1629	0.075	3	0.088067394
1630	0.075	3	0.088076659
1631	0.075	3	0.088085922
1632	0.075	3	0.088095185
1633	0.075	3	0.088104448
1634	0.075	3	0.08811371
1635	0.075	3	0.088122971

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1636	0.075	3	0.088132231
1637	0.075	3	0.08814149
1638	0.075	3	0.088150749
1639	0.075	3	0.088160007
1640	0.075	3	0.088169265
1641	0.075	3	0.088178522
1642	0.075	3	0.088187778
1643	0.075	3	0.088197033
1644	0.075	3	0.088206288
1645	0.075	3	0.088215542
1646	0.075	3	0.088224795
1647	0.075	3	0.088234048
1648	0.075	3	0.0882433
1649	0.075	3	0.088252551
1650	0.075	3	0.088261801
1651	0.075	3	0.088271051
1652	0.075	3	0.0882803
1653	0.075	3	0.088289549
1654	0.075	3	0.088298796
1655	0.075	3	0.088308043
1656	0.075	3	0.08831729
1657	0.075	3	0.088326535
1658	0.075	3	0.08833578
1659	0.075	3	0.088345024
1660	0.075	3	0.088354268
1661	0.075	3	0.088363511
1662	0.075	3	0.088372753
1663	0.075	3	0.088381994
1664	0.075	3	0.088391235
1665	0.075	3	0.088400475
1666	0.075	3	0.088409715
1667	0.075	3	0.088418953
1668	0.075	3	0.088428191
1669	0.075	3	0.088437429
1670	0.075	3	0.088446665
1671	0.075	3	0.088455901
1672	0.075	3	0.088465136
1673	0.075	3	0.088474371
1674	0.075	3	0.088483605
1675	0.075	3	0.088492838
1676	0.075	3	0.088502071

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1677	0.075	3	0.088511302
1678	0.075	3	0.088520533
1679	0.075	3	0.088529764
1680	0.075	3	0.088538994
1681	0.075	3	0.088548223
1682	0.075	3	0.088557451
1683	0.075	3	0.088566679
1684	0.075	3	0.088575906
1685	0.075	3	0.088585132
1686	0.075	3	0.088594358
1687	0.075	3	0.088603582
1688	0.075	3	0.088612807
1689	0.075	3	0.08862203
1690	0.075	3	0.088631253
1691	0.075	3	0.088640475
1692	0.075	3	0.088649697
1693	0.075	3	0.088658918
1694	0.075	3	0.088668138
1695	0.075	3	0.088677357
1696	0.075	3	0.088686576
1697	0.075	3	0.088695794
1698	0.075	3	0.088705011
1699	0.075	3	0.088714228
1700	0.075	3	0.088723444
1701	0.075	3	0.088732659
1702	0.075	3	0.088741874
1703	0.075	3	0.088751088
1704	0.075	3	0.088760301
1705	0.076	3	0.088769514
1706	0.076	3	0.088778726
1707	0.076	3	0.088787937
1708	0.076	3	0.088797148
1709	0.076	3	0.088806357
1710	0.076	3	0.088815567
1711	0.076	3	0.088824775
1712	0.076	3	0.088833983
1713	0.076	3	0.08884319
1714	0.076	3	0.088852397
1715	0.076	3	0.088861602
1716	0.076	3	0.088870808
1717	0.076	3	0.088880012

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1718	0.076	3	0.088889216
1719	0.076	3	0.088898419
1720	0.076	3	0.088907621
1721	0.076	3	0.088916823
1722	0.076	3	0.088926024
1723	0.076	3	0.088935224
1724	0.076	3	0.088944424
1725	0.076	3	0.088953623
1726	0.076	3	0.088962821
1727	0.076	3	0.088972019
1728	0.076	3	0.088981216
1729	0.076	3	0.088990412
1730	0.076	3	0.088999608
1731	0.076	3	0.089008803
1732	0.076	3	0.089017997
1733	0.076	3	0.089027191
1734	0.076	3	0.089036384
1735	0.076	3	0.089045576
1736	0.076	3	0.089054768
1737	0.076	3	0.089063959
1738	0.076	3	0.089073149
1739	0.076	3	0.089082339
1740	0.076	3	0.089091527
1741	0.076	3	0.089100716
1742	0.076	3	0.089109903
1743	0.076	3	0.08911909
1744	0.076	3	0.089128276
1745	0.076	3	0.089137462
1746	0.076	3	0.089146647
1747	0.076	3	0.089155831
1748	0.076	3	0.089165014
1749	0.076	3	0.089174197
1750	0.076	3	0.08918338
1751	0.076	3	0.089192561
1752	0.076	3	0.089201742
1753	0.076	3	0.089210922
1754	0.076	3	0.089220102
1755	0.076	3	0.08922928
1756	0.076	3	0.089238459
1757	0.076	3	0.089247636
1758	0.076	3	0.089256813

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1759	0.076	3	0.089265989
1760	0.076	3	0.089275165
1761	0.076	3	0.089284339
1762	0.076	3	0.089293514
1763	0.076	3	0.089302687
1764	0.076	3	0.08931186
1765	0.076	3	0.089321032
1766	0.076	3	0.089330204
1767	0.076	3	0.089339374
1768	0.076	3	0.089348545
1769	0.076	3	0.089357714
1770	0.076	3	0.089366883
1771	0.076	3	0.089376051
1772	0.076	3	0.089385219
1773	0.076	3	0.089394385
1774	0.076	3	0.089403552
1775	0.076	3	0.089412717
1776	0.076	3	0.089421882
1777	0.076	3	0.089431046
1778	0.076	3	0.08944021
1779	0.076	3	0.089449373
1780	0.076	3	0.089458535
1781	0.076	3	0.089467696
1782	0.076	3	0.089476857
1783	0.076	3	0.089486017
1784	0.076	3	0.089495177
1785	0.076	3	0.089504336
1786	0.076	3	0.089513494
1787	0.076	3	0.089522652
1788	0.076	3	0.089531808
1789	0.076	3	0.089540965
1790	0.076	3	0.08955012
1791	0.076	3	0.089559275
1792	0.076	4	0.090094644
1793	0.076	4	0.094053239
1794	0.076	4	0.097978357
1795	0.076	4	0.10187242
1796	0.076	4	0.105736837
1797	0.076	4	0.109573036
1798	0.076	4	0.113382164
1799	0.076	4	0.117160258

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1800	0.076	5	0.120005174
1801	0.076	5	0.120391983
1802	0.076	5	0.120778098
1803	0.076	5	0.121163388
1804	0.076	5	0.121547775
1805	0.076	5	0.121931192
1806	0.076	5	0.122313589
1807	0.076	5	0.122695109
1808	0.076	5	0.123076035
1809	0.076	5	0.123456394
1810	0.076	5	0.123836225
1811	0.076	5	0.12421556
1812	0.076	5	0.124594426
1813	0.076	5	0.124972843
1814	0.076	5	0.125350829
1815	0.076	5	0.125728399
1816	0.076	5	0.126105566
1817	0.076	5	0.12648234
1818	0.076	5	0.126858729
1819	0.076	5	0.12723474
1820	0.076	5	0.12761038
1821	0.076	5	0.127985654
1822	0.076	5	0.128360565
1823	0.076	5	0.128735118
1824	0.076	5	0.129109317
1825	0.076	5	0.129483163
1826	0.076	5	0.129856659
1827	0.076	5	0.130229809
1828	0.076	5	0.130602612
1829	0.076	5	0.130975072
1830	0.076	5	0.13134719
1831	0.076	5	0.131718967
1832	0.076	5	0.132090405
1833	0.076	5	0.132461505
1834	0.076	5	0.132832268
1835	0.076	5	0.133202696
1836	0.076	5	0.13357279
1837	0.076	5	0.13394255
1838	0.076	5	0.134311978
1839	0.076	5	0.134681074
1840	0.076	5	0.13504984

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1841	0.076	5	0.135418277
1842	0.076	5	0.135786386
1843	0.076	5	0.136154167
1844	0.076	5	0.136521622
1845	0.076	5	0.136888751
1846	0.076	5	0.137255555
1847	0.076	5	0.137622036
1848	0.076	5	0.137988193
1849	0.076	5	0.138354029
1850	0.076	5	0.138719543
1851	0.076	5	0.139084737
1852	0.076	5	0.139449611
1853	0.076	5	0.139814167
1854	0.076	5	0.140178405
1855	0.076	5	0.140542326
1856	0.076	5	0.140905931
1857	0.076	6	0.141018551
1858	0.076	6	0.141121719
1859	0.076	6	0.141224848
1860	0.076	6	0.141327935
1861	0.076	6	0.141430979
1862	0.076	6	0.141533981
1863	0.076	6	0.141636938
1864	0.076	6	0.141739858
1865	0.076	6	0.141842744
1866	0.076	6	0.141945596
1867	0.076	6	0.142048417
1868	0.076	6	0.142151206
1869	0.076	6	0.142253965
1870	0.076	6	0.142356694
1871	0.076	6	0.142459393
1872	0.076	6	0.142562063
1873	0.076	6	0.142664704
1874	0.076	6	0.142767316
1875	0.076	6	0.142869901
1876	0.076	6	0.142972457
1877	0.076	6	0.143074985
1878	0.076	6	0.143177485
1879	0.076	6	0.143279957
1880	0.076	6	0.143382402
1881	0.076	6	0.143484819

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1882	0.076	6	0.143587208
1883	0.076	6	0.14368957
1884	0.076	6	0.143791905
1885	0.076	6	0.143894212
1886	0.076	6	0.143996492
1887	0.076	6	0.144098745
1888	0.076	6	0.14420097
1889	0.076	6	0.144303168
1890	0.076	6	0.144405339
1891	0.076	6	0.144507483
1892	0.076	6	0.1446096
1893	0.076	6	0.144711689
1894	0.076	6	0.144813752
1895	0.076	6	0.144915787
1896	0.076	6	0.145017796
1897	0.076	6	0.145119777
1898	0.076	6	0.145221732
1899	0.076	6	0.145323659
1900	0.076	6	0.14542556
1901	0.076	6	0.145527434
1902	0.076	6	0.145629281
1903	0.076	6	0.1457311
1904	0.076	6	0.145832894
1905	0.076	6	0.14593466
1906	0.076	6	0.1460364
1907	0.076	6	0.146138112
1908	0.076	6	0.146239798
1909	0.076	6	0.146341458
1910	0.076	6	0.14644309
1911	0.076	6	0.146544696
1912	0.076	6	0.146646276
1913	0.076	6	0.146747828
1914	0.076	6	0.146849354
1915	0.076	7	0.147142436
1916	0.076	7	0.147564408
1917	0.076	7	0.14798602
1918	0.076	7	0.148407282
1919	0.076	7	0.148828201
1920	0.076	7	0.149248785
1921	0.076	7	0.149669038
1922	0.076	7	0.150088938

Attachment 7

	AR	AS	AT
20			Clad CP Iterpolation
21			Cp
22	BTU/lb-F	Match	BTU/lb-F
1923	0.076	7	0.150508464
1924	0.076	7	0.150927611
1925	0.076	7	0.151346374
1926	0.076	7	0.151764751
1927	0.076	7	0.152182738
1928	0.076	7	0.152600335
1929	0.076	7	0.15301754
1930	0.076	7	0.153434352
1931	0.076	7	0.153850772
1932	0.076	7	0.154266799
1933	0.076	7	0.154682433
1934	0.076	7	0.155097675
1935	0.076	7	0.155512525
1936	0.076	7	0.155926984
1937	0.076	7	0.156341052
1938	0.076	7	0.156754731
1939	0.076	7	0.157168021
1940	0.076	7	0.157580923
1941	0.076	7	0.157993437
1942	0.076	7	0.158405566
1943	0.076	7	0.15881731
1944	0.076	7	0.159228669
1945	0.076	7	0.159639645
1946	0.076	7	0.16005024
1947	0.076	7	0.160460453
1948	0.076	7	0.160870286
1949	0.076	7	0.16127974
1950	0.076	7	0.161688816
1951	0.076	7	0.162097516
1952	0.076	7	0.162505839
1953	0.076	7	0.162913788
1954	0.076	7	0.163321362
1955	0.076	7	0.163728564
1956	0.076	7	0.164135394
1957	0.076	7	0.164541853
1958	0.076	7	0.164947943
1959	0.076	7	0.165353663
1960	0.076	7	0.165759016
1961	0.076	7	0.166164002
1962	0.076	7	0.166568623
1963	0.076	7	0.166972879

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
1964	0.076	7	0.167376771
1965	0.076	7	0.1677803
1966	0.076	7	0.168183467
1967	0.076	7	0.168586274
1968	0.076	7	0.168988721
1969	0.076	7	0.169390809
1970	0.076	7	0.169792539
1971	0.076	7	0.170193912
1972	0.076	7	0.170594929
1973	0.076	7	0.170995591
1974	0.076	7	0.171395899
1975	0.076	8	0.171738073
1976	0.076	8	0.171785999
1977	0.076	8	0.171833913
1978	0.076	8	0.171881814
1979	0.076	8	0.171929701
1980	0.076	8	0.171977574
1981	0.076	8	0.172025431
1982	0.076	8	0.172073272
1983	0.076	8	0.172121101
1984	0.076	8	0.172168921
1985	0.076	8	0.172216731
1986	0.076	8	0.172264533
1987	0.076	8	0.172312326
1988	0.076	8	0.172360111
1989	0.076	8	0.172407889
1990	0.076	8	0.17245566
1991	0.076	8	0.172503423
1992	0.076	8	0.17255118
1993	0.076	8	0.172598929
1994	0.076	8	0.172646673
1995	0.076	8	0.172694409
1996	0.076	8	0.172742139
1997	0.076	8	0.172789863
1998	0.076	8	0.17283758
1999	0.076	8	0.172885292
2000	0.076	8	0.172932996
2001	0.076	8	0.172980695
2002	0.076	8	0.173028387
2003	0.076	8	0.173076073
2004	0.076	8	0.173123753

Attachment 7

	AR	AS	AT
20		Clad CP Iterpolation	
21		Cp	
22	BTU/lb-F	Match	BTU/lb-F
2005	0.076	8	0.173171427
2006	0.076	8	0.173219094
2007	0.076	8	0.173266755
2008	0.076	8	0.173314411
2009	0.076	8	0.17336206
2010	0.076	8	0.173409702
2011	0.076	8	0.173457339
2012	0.076	8	0.17350497
2013	0.076	8	0.173552594
2014	0.076	8	0.173600212
2015	0.076	8	0.173647825
2016	0.076	8	0.173695431
2017	0.076	8	0.173743031
2018	0.076	8	0.173790624
2019	0.076	8	0.173838212
2020	0.076	8	0.173885794
2021	0.076	8	0.173933369
2022	0.076	8	0.173980939
2023	0.076	8	0.174028502
2024	0.076	8	0.174076059

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19	$x = \text{INDEX}(\$L\$3:\$L\$16, \text{AU}24) + (\text{AI}24 - \text{INDEX}(\$I\$3:\$I\$16, \text{AU}24)) * (\text{INDEX}(\$L\$3:\$L\$16, \text{AU}24 + 1) - \text{INDEX}(\$L\$3:\$L\$16, \text{AU}24)) / (\text{INDEX}(\$I\$3:\$I\$16, \text{AU}24 + 1) - \text{INDEX}(\$I\$3:\$I\$16, \text{AU}24))$
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
23	0.068221116
24	0.068221116
25	0.068221741
26	0.06822297
27	0.068224783
28	0.068227159
29	0.068230078
30	0.068233524
31	0.068237479
32	0.068241926
33	0.068246849
34	0.068252233
35	0.068258063
36	0.068264325

Attachment 7

	AV	
20	Channel Box CP Iterpolation	
21	Cp	
22	BTU/lb-F	
37		0.068271006
38		0.068278093
39		0.068285573
40		0.068293436
41		0.068301668
42		0.06831026
43		0.0683192
44		0.06832848
45		0.068338088
46		0.068348016
47		0.068358254
48		0.068368795
49		0.06837963
50		0.06839075
51		0.068402148
52		0.068413817
53		0.06842575
54		0.068437939
55		0.068450379
56		0.068463062
57		0.068475982
58		0.068489134
59		0.068502512
60		0.068516111
61		0.068529924
62		0.068543948
63		0.068558176
64		0.068572604
65		0.068587228
66		0.068602042
67		0.068617043
68		0.068632227
69		0.068647589
70		0.068663126
71		0.068678833
72		0.068694707
73		0.068710744
74		0.068726942
75		0.068743296
76		0.068759803
77		0.06877646

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
78	0.068793265
79	0.068810214
80	0.068827304
81	0.068844533
82	0.068861898
83	0.068879396
84	0.068897025
85	0.068914782
86	0.068932665
87	0.068950671
88	0.068968798
89	0.068987045
90	0.069005408
91	0.069023886
92	0.069042477
93	0.069061179
94	0.069079989
95	0.069098906
96	0.069117929
97	0.069137054
98	0.069156282
99	0.069175609
100	0.069195035
101	0.069214557
102	0.069234174
103	0.069253885
104	0.069273687
105	0.069293581
106	0.069313563
107	0.069333633
108	0.06935379
109	0.069374031
110	0.069394357
111	0.069414765
112	0.069435254
113	0.069455823
114	0.069476471
115	0.069497196
116	0.069517999
117	0.069538876
118	0.069559828

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
119	0.069580853
120	0.069601951
121	0.06962312
122	0.069644358
123	0.069665667
124	0.069687043
125	0.069708487
126	0.069729997
127	0.069751572
128	0.069773213
129	0.069794917
130	0.069816684
131	0.069838513
132	0.069860403
133	0.069882354
134	0.069904364
135	0.069926433
136	0.069948561
137	0.069970745
138	0.069992987
139	0.070015284
140	0.070037637
141	0.070060044
142	0.070082505
143	0.07010502
144	0.070127586
145	0.070150205
146	0.070172875
147	0.070195596
148	0.070218367
149	0.070241187
150	0.070264056
151	0.070286973
152	0.070309939
153	0.070332951
154	0.07035601
155	0.070379115
156	0.070402265
157	0.07042546
158	0.0704487
159	0.070471984

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
160	0.070495312
161	0.070518682
162	0.070542095
163	0.07056555
164	0.070589047
165	0.070612585
166	0.070636163
167	0.070659782
168	0.070683441
169	0.07070714
170	0.070730877
171	0.070754653
172	0.070778467
173	0.07080232
174	0.070826209
175	0.070850136
176	0.0708741
177	0.0708981
178	0.070922135
179	0.070946207
180	0.070970313
181	0.070994455
182	0.071018631
183	0.071042841
184	0.071067085
185	0.071091362
186	0.071115673
187	0.071140016
188	0.071164392
189	0.0711888
190	0.071213239
191	0.07123771
192	0.071262213
193	0.071286746
194	0.071311309
195	0.071335903
196	0.071360526
197	0.071385179
198	0.071409862
199	0.071434573
200	0.071459313

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
201	0.071484082
202	0.071508878
203	0.071533702
204	0.071558554
205	0.071583433
206	0.071608338
207	0.071633271
208	0.071658229
209	0.071683214
210	0.071708225
211	0.071733261
212	0.071758322
213	0.071783408
214	0.071808519
215	0.071833654
216	0.071858813
217	0.071883996
218	0.071909203
219	0.071934433
220	0.071959686
221	0.071984962
222	0.07201026
223	0.07203558
224	0.072060923
225	0.072086287
226	0.072111673
227	0.072134694
228	0.072149325
229	0.072163971
230	0.07217863
231	0.072193303
232	0.072207989
233	0.072222688
234	0.0722374
235	0.072252124
236	0.07226686
237	0.072281608
238	0.072296368
239	0.072311139
240	0.072325922
241	0.072340716

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
242	0.07235552
243	0.072370335
244	0.072385161
245	0.072399997
246	0.072414843
247	0.072429699
248	0.072444565
249	0.07245944
250	0.072474324
251	0.072489218
252	0.072504121
253	0.072519032
254	0.072533953
255	0.072548881
256	0.072563818
257	0.072578763
258	0.072593717
259	0.072608678
260	0.072623646
261	0.072638622
262	0.072653606
263	0.072668597
264	0.072683595
265	0.072698599
266	0.072713611
267	0.072728629
268	0.072743653
269	0.072758684
270	0.072773721
271	0.072788764
272	0.072803812
273	0.072818867
274	0.072833926
275	0.072848992
276	0.072864062
277	0.072879138
278	0.072894218
279	0.072909304
280	0.072924394
281	0.072939488
282	0.072954587

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
283	0.07296969
284	0.072984797
285	0.072999908
286	0.073015023
287	0.073030141
288	0.073045263
289	0.073060388
290	0.073075516
291	0.073090648
292	0.073105782
293	0.073120919
294	0.073136059
295	0.073151201
296	0.073166346
297	0.073181493
298	0.073196642
299	0.073211793
300	0.073226945
301	0.0732421
302	0.073257256
303	0.073272413
304	0.073287571
305	0.073302731
306	0.073317891
307	0.073333053
308	0.073348215
309	0.073363378
310	0.073378541
311	0.073393704
312	0.073408868
313	0.073424032
314	0.073439195
315	0.073454359
316	0.073469522
317	0.073484685
318	0.073499847
319	0.073515008
320	0.073530168
321	0.073545328
322	0.073560486
323	0.073575644

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
324	0.0735908
325	0.073605954
326	0.073621107
327	0.073636258
328	0.073651408
329	0.073666555
330	0.073681701
331	0.073696844
332	0.073711985
333	0.073727124
334	0.07374226
335	0.073757393
336	0.073772524
337	0.073787652
338	0.073802777
339	0.073817899
340	0.073833018
341	0.073848134
342	0.073863246
343	0.073878355
344	0.07389346
345	0.073908561
346	0.073923659
347	0.073938753
348	0.073953843
349	0.073968929
350	0.07398401
351	0.073999088
352	0.074014161
353	0.07402923
354	0.074044294
355	0.074059353
356	0.074074408
357	0.074089458
358	0.074104503
359	0.074119544
360	0.074134579
361	0.074149609
362	0.074164634
363	0.074179653
364	0.074194667

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
365	0.074209676
366	0.074224679
367	0.074239677
368	0.074254669
369	0.074269655
370	0.074284635
371	0.07429961
372	0.074314578
373	0.07432954
374	0.074344497
375	0.074359447
376	0.074374391
377	0.074389329
378	0.07440426
379	0.074419185
380	0.074434104
381	0.074449016
382	0.074463921
383	0.07447882
384	0.074493712
385	0.074508597
386	0.074523476
387	0.074538347
388	0.074553212
389	0.07456807
390	0.074582921
391	0.074597765
392	0.074612601
393	0.074627431
394	0.074642253
395	0.074657069
396	0.074671877
397	0.074686677
398	0.074701471
399	0.074716257
400	0.074731035
401	0.074745806
402	0.07476057
403	0.074775326
404	0.074790075
405	0.074804816

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
406	0.074819549
407	0.074834275
408	0.074848994
409	0.074863704
410	0.074878407
411	0.074893102
412	0.07490779
413	0.074922469
414	0.074937141
415	0.074951805
416	0.074966461
417	0.07498111
418	0.07499575
419	0.075010383
420	0.075025008
421	0.075039624
422	0.075054233
423	0.075068834
424	0.075083427
425	0.075098012
426	0.07511259
427	0.075127159
428	0.07514172
429	0.075156273
430	0.075170818
431	0.075185355
432	0.075199885
433	0.075214406
434	0.075228919
435	0.075243424
436	0.075257921
437	0.07527241
438	0.075286891
439	0.075301364
440	0.075315829
441	0.075330287
442	0.075344736
443	0.075359177
444	0.07537361
445	0.075388035
446	0.075402452

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
447	0.075416861
448	0.075431262
449	0.075445655
450	0.07546004
451	0.075474417
452	0.075488786
453	0.075503148
454	0.075517501
455	0.075531847
456	0.075546184
457	0.075560514
458	0.075574835
459	0.075589149
460	0.075603455
461	0.075617754
462	0.075632044
463	0.075646327
464	0.075660601
465	0.075674868
466	0.075689127
467	0.075703379
468	0.075717623
469	0.075731859
470	0.075746087
471	0.075760307
472	0.07577452
473	0.075788726
474	0.075802923
475	0.075817113
476	0.075831296
477	0.075845471
478	0.075859638
479	0.075873798
480	0.07588795
481	0.075902095
482	0.075916232
483	0.075930362
484	0.075944485
485	0.0759586
486	0.075972708
487	0.075986808

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
488	0.076000901
489	0.076014987
490	0.076029065
491	0.076043136
492	0.0760572
493	0.076071257
494	0.076085306
495	0.076099349
496	0.076113384
497	0.076127412
498	0.076141433
499	0.076155447
500	0.076169454
501	0.076183454
502	0.076197447
503	0.076211432
504	0.076225411
505	0.076239383
506	0.076253349
507	0.076267307
508	0.076281258
509	0.076295203
510	0.076309141
511	0.076323072
512	0.076336996
513	0.076350913
514	0.076364824
515	0.076378728
516	0.076392626
517	0.076406517
518	0.076420401
519	0.076434279
520	0.07644815
521	0.076462015
522	0.076475873
523	0.076489725
524	0.076503571
525	0.07651741
526	0.076531242
527	0.076545068
528	0.076558888

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
529	0.076572702
530	0.076586509
531	0.07660031
532	0.076614105
533	0.076627894
534	0.076641676
535	0.076655452
536	0.076669223
537	0.076682987
538	0.076696745
539	0.076710497
540	0.076724243
541	0.076737983
542	0.076751717
543	0.076765445
544	0.076779167
545	0.076792883
546	0.076806593
547	0.076820298
548	0.076833996
549	0.076847689
550	0.076861376
551	0.076875057
552	0.076888733
553	0.076902403
554	0.076916067
555	0.076929726
556	0.076943379
557	0.076957026
558	0.076970668
559	0.076984304
560	0.076997935
561	0.07701156
562	0.077025179
563	0.077038793
564	0.077052402
565	0.077066006
566	0.077079603
567	0.077093196
568	0.077106783
569	0.077120365

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
570	0.077133942
571	0.077147513
572	0.077161079
573	0.07717464
574	0.077188195
575	0.077201745
576	0.077215291
577	0.077228831
578	0.077242365
579	0.077255895
580	0.07726942
581	0.077282939
582	0.077296454
583	0.077309964
584	0.077323468
585	0.077336968
586	0.077350462
587	0.077363952
588	0.077377436
589	0.077390916
590	0.077404391
591	0.077417861
592	0.077431326
593	0.077444787
594	0.077458242
595	0.077471693
596	0.077485139
597	0.07749858
598	0.077512017
599	0.077525449
600	0.077538876
601	0.077552298
602	0.077565716
603	0.077579129
604	0.077592538
605	0.077605941
606	0.077619341
607	0.077632736
608	0.077646126
609	0.077659512
610	0.077672893

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
611	0.077686269
612	0.077699642
613	0.077713009
614	0.077726373
615	0.077739731
616	0.077753086
617	0.077766436
618	0.077779782
619	0.077793123
620	0.07780646
621	0.077819793
622	0.077833121
623	0.077846445
624	0.077859765
625	0.07787308
626	0.077886392
627	0.077899699
628	0.077913001
629	0.0779263
630	0.077939594
631	0.077952885
632	0.077966171
633	0.077979453
634	0.077992731
635	0.078006004
636	0.078019274
637	0.078032539
638	0.078045801
639	0.078059058
640	0.078072312
641	0.078085561
642	0.078098806
643	0.078112048
644	0.078125285
645	0.078138519
646	0.078151748
647	0.078164974
648	0.078178195
649	0.078191413
650	0.078204626
651	0.078217836

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
652	0.078231042
653	0.078244244
654	0.078257443
655	0.078270637
656	0.078283828
657	0.078297015
658	0.078310198
659	0.078323377
660	0.078336552
661	0.078349724
662	0.078362892
663	0.078376056
664	0.078389217
665	0.078402373
666	0.078415526
667	0.078428676
668	0.078441822
669	0.078454964
670	0.078468102
671	0.078481237
672	0.078494368
673	0.078507495
674	0.078520619
675	0.078533374
676	0.078546856
677	0.078559969
678	0.078573079
679	0.078586185
680	0.078599287
681	0.078612386
682	0.078625482
683	0.078638574
684	0.078651662
685	0.078664747
686	0.078677829
687	0.078690907
688	0.078703981
689	0.078717052
690	0.07873012
691	0.078743184
692	0.078756245

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
693	0.078769302
694	0.078782356
695	0.078795407
696	0.078808454
697	0.078821498
698	0.078834539
699	0.078847576
700	0.07886061
701	0.078873641
702	0.078886668
703	0.078899692
704	0.078912713
705	0.07892573
706	0.078938744
707	0.078951756
708	0.078964763
709	0.078977768
710	0.078990769
711	0.079003768
712	0.079016763
713	0.079029754
714	0.079042743
715	0.079055729
716	0.079066666
717	0.079077169
718	0.07908767
719	0.079098168
720	0.079108664
721	0.079119158
722	0.079129649
723	0.079140138
724	0.079150624
725	0.079161108
726	0.07917159
727	0.079182069
728	0.079192546
729	0.07920302
730	0.079213492
731	0.079223961
732	0.079234429
733	0.079244893

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
734	0.079255356
735	0.079265816
736	0.079276273
737	0.079286729
738	0.079297181
739	0.079307632
740	0.07931808
741	0.079328526
742	0.07933897
743	0.079349411
744	0.07935985
745	0.079370286
746	0.07938072
747	0.079391152
748	0.079401582
749	0.079412009
750	0.079422434
751	0.079432857
752	0.079443277
753	0.079453696
754	0.079464111
755	0.079474525
756	0.079484936
757	0.079495346
758	0.079505752
759	0.079516157
760	0.079526559
761	0.07953696
762	0.079547357
763	0.079557753
764	0.079568147
765	0.079578538
766	0.079588927
767	0.079599314
768	0.079609698
769	0.079620081
770	0.079630461
771	0.079640839
772	0.079651215
773	0.079661589
774	0.07967196

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
775	0.07968233
776	0.079692697
777	0.079703062
778	0.079713425
779	0.079723786
780	0.079734145
781	0.079744501
782	0.079754856
783	0.079765208
784	0.079775558
785	0.079785906
786	0.079796252
787	0.079806596
788	0.079816938
789	0.079827277
790	0.079837615
791	0.07984795
792	0.079858284
793	0.079868615
794	0.079878944
795	0.079889271
796	0.079899597
797	0.07990992
798	0.079920241
799	0.07993056
800	0.079940876
801	0.079951191
802	0.079961504
803	0.079971815
804	0.079982124
805	0.079992431
806	0.080002735
807	0.080013038
808	0.080023339
809	0.080033637
810	0.080043934
811	0.080054229
812	0.080064521
813	0.080074812
814	0.080085101
815	0.080095388

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
816	0.080105672
817	0.080115955
818	0.080126236
819	0.080136515
820	0.080146792
821	0.080157067
822	0.08016734
823	0.080177611
824	0.08018788
825	0.080198147
826	0.080208413
827	0.080218676
828	0.080228937
829	0.080239197
830	0.080249454
831	0.08025971
832	0.080269964
833	0.080280215
834	0.080290465
835	0.080300713
836	0.08031096
837	0.080321204
838	0.080331446
839	0.080341687
840	0.080351925
841	0.080362162
842	0.080372397
843	0.08038263
844	0.080392861
845	0.08040309
846	0.080413317
847	0.080423543
848	0.080433766
849	0.080443988
850	0.080454208
851	0.080464426
852	0.080474643
853	0.080484857
854	0.08049507
855	0.08050528
856	0.080515489

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
857	0.080525697
858	0.080535902
859	0.080546105
860	0.080556307
861	0.080566507
862	0.080576705
863	0.080586901
864	0.080597096
865	0.080607289
866	0.08061748
867	0.080627669
868	0.080637856
869	0.080648042
870	0.080658225
871	0.080668408
872	0.080678588
873	0.080688766
874	0.080698943
875	0.080709118
876	0.080719291
877	0.080729463
878	0.080739632
879	0.0807498
880	0.080759967
881	0.080770131
882	0.080780294
883	0.080790455
884	0.080800614
885	0.080810772
886	0.080820928
887	0.080831082
888	0.080841234
889	0.080851385
890	0.080861534
891	0.080871681
892	0.080881827
893	0.080891971
894	0.080902113
895	0.080912253
896	0.080922392
897	0.080932529

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
898	0.080942664
899	0.080952798
900	0.08096293
901	0.080973061
902	0.080983189
903	0.080993316
904	0.081003442
905	0.081013565
906	0.081023687
907	0.081033808
908	0.081043926
909	0.081054043
910	0.081064159
911	0.081074272
912	0.081084385
913	0.081094495
914	0.081104604
915	0.081114711
916	0.081124816
917	0.08113492
918	0.081145023
919	0.081155123
920	0.081165222
921	0.08117532
922	0.081185415
923	0.08119551
924	0.081205602
925	0.081215693
926	0.081225782
927	0.08123587
928	0.081245956
929	0.081256041
930	0.081266124
931	0.081276205
932	0.081286285
933	0.081296363
934	0.081306439
935	0.081316514
936	0.081326588
937	0.081336659
938	0.08134673

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
939	0.081356798
940	0.081366865
941	0.081376931
942	0.081386995
943	0.081397057
944	0.081407118
945	0.081417177
946	0.081427235
947	0.081437291
948	0.081447346
949	0.081457399
950	0.08146745
951	0.0814775
952	0.081487548
953	0.081497595
954	0.081507641
955	0.081517684
956	0.081527727
957	0.081537767
958	0.081547807
959	0.081557844
960	0.08156788
961	0.081577915
962	0.081587948
963	0.08159798
964	0.08160801
965	0.081618038
966	0.081628066
967	0.081638091
968	0.081648115
969	0.081658138
970	0.081668159
971	0.081678178
972	0.081688196
973	0.081698213
974	0.081708228
975	0.081718242
976	0.081728254
977	0.081738264
978	0.081748273
979	0.081758281

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
980	0.081768287
981	0.081778292
982	0.081788295
983	0.081798297
984	0.081808297
985	0.081818296
986	0.081828293
987	0.081838289
988	0.081848284
989	0.081858277
990	0.081868268
991	0.081878258
992	0.081888247
993	0.081898234
994	0.08190822
995	0.081918204
996	0.081928187
997	0.081938168
998	0.081948148
999	0.081958127
1000	0.081968104
1001	0.08197808
1002	0.081988054
1003	0.081998027
1004	0.082007998
1005	0.082017968
1006	0.082027936
1007	0.082037904
1008	0.082047869
1009	0.082057834
1010	0.082067796
1011	0.082077758
1012	0.082087718
1013	0.082097677
1014	0.082107634
1015	0.08211759
1016	0.082127544
1017	0.082137497
1018	0.082147449
1019	0.082157399
1020	0.082167348

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1021	0.082177295
1022	0.082187241
1023	0.082197186
1024	0.082207129
1025	0.082217071
1026	0.082227011
1027	0.082236951
1028	0.082246888
1029	0.082256825
1030	0.08226676
1031	0.082276693
1032	0.082286626
1033	0.082296556
1034	0.082306486
1035	0.082316414
1036	0.082326341
1037	0.082336266
1038	0.08234619
1039	0.082356113
1040	0.082366034
1041	0.082375954
1042	0.082385873
1043	0.08239579
1044	0.082405706
1045	0.082415621
1046	0.082425534
1047	0.082435446
1048	0.082445356
1049	0.082455266
1050	0.082465174
1051	0.08247508
1052	0.082484985
1053	0.082494889
1054	0.082504792
1055	0.082514693
1056	0.082524593
1057	0.082534491
1058	0.082544389
1059	0.082554284
1060	0.082564179
1061	0.082574072

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1062	0.082583964
1063	0.082593855
1064	0.082603744
1065	0.082613632
1066	0.082623519
1067	0.082633404
1068	0.082643288
1069	0.082653171
1070	0.082663053
1071	0.082672933
1072	0.082682812
1073	0.082692689
1074	0.082702565
1075	0.08271244
1076	0.082722314
1077	0.082732186
1078	0.082742058
1079	0.082751927
1080	0.082761796
1081	0.082771663
1082	0.082781529
1083	0.082791394
1084	0.082801257
1085	0.082811119
1086	0.08282098
1087	0.08283084
1088	0.082840698
1089	0.082850555
1090	0.082860411
1091	0.082870265
1092	0.082880118
1093	0.08288997
1094	0.082899821
1095	0.08290967
1096	0.082919518
1097	0.082929365
1098	0.082939211
1099	0.082949055
1100	0.082958898
1101	0.08296874
1102	0.082978581

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1103	0.08298842
1104	0.082998258
1105	0.083008095
1106	0.08301793
1107	0.083027765
1108	0.083037598
1109	0.08304743
1110	0.08305726
1111	0.08306709
1112	0.083076918
1113	0.083086745
1114	0.08309657
1115	0.083106395
1116	0.083116218
1117	0.08312604
1118	0.083135861
1119	0.08314568
1120	0.083155498
1121	0.083165315
1122	0.083175131
1123	0.083184946
1124	0.083194759
1125	0.083204571
1126	0.083214382
1127	0.083224192
1128	0.083234001
1129	0.083243808
1130	0.083253614
1131	0.083263419
1132	0.083273222
1133	0.083283025
1134	0.083292826
1135	0.083302626
1136	0.083312425
1137	0.083322223
1138	0.083332019
1139	0.083341814
1140	0.083351608
1141	0.083361401
1142	0.083371193
1143	0.083380983

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1144	0.083390773
1145	0.083400561
1146	0.083410347
1147	0.083420133
1148	0.083429918
1149	0.083439701
1150	0.083449483
1151	0.083459264
1152	0.083469044
1153	0.083478822
1154	0.0834886
1155	0.083498376
1156	0.083508151
1157	0.083517925
1158	0.083527698
1159	0.083537469
1160	0.083547239
1161	0.083557009
1162	0.083566777
1163	0.083576543
1164	0.083586309
1165	0.083596074
1166	0.083605837
1167	0.083615599
1168	0.08362536
1169	0.08363512
1170	0.083644879
1171	0.083654636
1172	0.083664393
1173	0.083674148
1174	0.083683902
1175	0.083693655
1176	0.083703407
1177	0.083713157
1178	0.083722907
1179	0.083732655
1180	0.083742402
1181	0.083752148
1182	0.083761893
1183	0.083771637
1184	0.08378138

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1185	0.083791121
1186	0.083800861
1187	0.0838106
1188	0.083820339
1189	0.083830075
1190	0.083839811
1191	0.083849546
1192	0.083859279
1193	0.083869012
1194	0.083878743
1195	0.083888473
1196	0.083898202
1197	0.08390793
1198	0.083917657
1199	0.083927382
1200	0.083937107
1201	0.08394683
1202	0.083956552
1203	0.083966274
1204	0.083975994
1205	0.083985712
1206	0.08399543
1207	0.084005147
1208	0.084014862
1209	0.084024577
1210	0.08403429
1211	0.084044002
1212	0.084053714
1213	0.084063424
1214	0.084073132
1215	0.08408284
1216	0.084092547
1217	0.084102253
1218	0.084111957
1219	0.08412166
1220	0.084131363
1221	0.084141064
1222	0.084150764
1223	0.084160463
1224	0.084170161
1225	0.084179858

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1226	0.084189553
1227	0.084199248
1228	0.084208941
1229	0.084218634
1230	0.084228325
1231	0.084238015
1232	0.084247705
1233	0.084257393
1234	0.08426708
1235	0.084276766
1236	0.08428645
1237	0.084296134
1238	0.084305817
1239	0.084315498
1240	0.084325179
1241	0.084334858
1242	0.084344537
1243	0.084354214
1244	0.08436389
1245	0.084373565
1246	0.084383239
1247	0.084392912
1248	0.084402584
1249	0.084412255
1250	0.084421925
1251	0.084431594
1252	0.084441261
1253	0.084450928
1254	0.084460594
1255	0.084470258
1256	0.084479921
1257	0.084489584
1258	0.084499245
1259	0.084508905
1260	0.084518564
1261	0.084528223
1262	0.08453788
1263	0.084547536
1264	0.084557191
1265	0.084566844
1266	0.084576497

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1267	0.084586149
1268	0.0845958
1269	0.08460545
1270	0.084615098
1271	0.084624746
1272	0.084634392
1273	0.084644038
1274	0.084653682
1275	0.084663326
1276	0.084672968
1277	0.084682609
1278	0.08469225
1279	0.084701889
1280	0.084711527
1281	0.084721164
1282	0.084730801
1283	0.084740436
1284	0.08475007
1285	0.084759703
1286	0.084769335
1287	0.084778966
1288	0.084788596
1289	0.084798225
1290	0.084807853
1291	0.08481748
1292	0.084827105
1293	0.08483673
1294	0.084846354
1295	0.084855977
1296	0.084865599
1297	0.084875219
1298	0.084884839
1299	0.084894458
1300	0.084904075
1301	0.084913692
1302	0.084923308
1303	0.084932922
1304	0.084942536
1305	0.084952148
1306	0.08496176
1307	0.084971371

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1308	0.08498098
1309	0.084990589
1310	0.085000196
1311	0.085009803
1312	0.085019408
1313	0.085029013
1314	0.085038616
1315	0.085048219
1316	0.08505782
1317	0.085067421
1318	0.08507702
1319	0.085086619
1320	0.085096216
1321	0.085105813
1322	0.085115408
1323	0.085125003
1324	0.085134596
1325	0.085144189
1326	0.08515378
1327	0.085163371
1328	0.08517296
1329	0.085182549
1330	0.085192136
1331	0.085201723
1332	0.085211308
1333	0.085220893
1334	0.085230476
1335	0.085240059
1336	0.085249641
1337	0.085259221
1338	0.085268801
1339	0.08527838
1340	0.085287957
1341	0.085297534
1342	0.08530711
1343	0.085316684
1344	0.085326258
1345	0.085335831
1346	0.085345402
1347	0.085354973
1348	0.085364543

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1349	0.085374112
1350	0.08538368
1351	0.085393247
1352	0.085402813
1353	0.085412378
1354	0.085421942
1355	0.085431505
1356	0.085441067
1357	0.085450628
1358	0.085460188
1359	0.085469747
1360	0.085479305
1361	0.085488862
1362	0.085498418
1363	0.085507974
1364	0.085517528
1365	0.085527081
1366	0.085536634
1367	0.085546185
1368	0.085555736
1369	0.085565285
1370	0.085574834
1371	0.085584381
1372	0.085593928
1373	0.085603473
1374	0.085613018
1375	0.085622562
1376	0.085632105
1377	0.085641647
1378	0.085651187
1379	0.085660727
1380	0.085670266
1381	0.085679804
1382	0.085689341
1383	0.085698878
1384	0.085708413
1385	0.085717947
1386	0.08572748
1387	0.085737013
1388	0.085746544
1389	0.085756075

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1390	0.085765604
1391	0.085775133
1392	0.08578466
1393	0.085794187
1394	0.085803713
1395	0.085813238
1396	0.085822761
1397	0.085832284
1398	0.085841806
1399	0.085851327
1400	0.085860847
1401	0.085870367
1402	0.085879885
1403	0.085889402
1404	0.085898919
1405	0.085908434
1406	0.085917949
1407	0.085927462
1408	0.085936975
1409	0.085946487
1410	0.085955997
1411	0.085965507
1412	0.085975016
1413	0.085984524
1414	0.085994031
1415	0.086003538
1416	0.086013043
1417	0.086022547
1418	0.086032051
1419	0.086041553
1420	0.086051055
1421	0.086060555
1422	0.086070055
1423	0.086079554
1424	0.086089052
1425	0.086098549
1426	0.086108045
1427	0.08611754
1428	0.086127034
1429	0.086136527
1430	0.08614602

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1431	0.086155511
1432	0.086165002
1433	0.086174491
1434	0.08618398
1435	0.086193468
1436	0.086202955
1437	0.086212441
1438	0.086221926
1439	0.08623141
1440	0.086240893
1441	0.086250376
1442	0.086259857
1443	0.086269338
1444	0.086278817
1445	0.086288296
1446	0.086297774
1447	0.086307251
1448	0.086316727
1449	0.086326202
1450	0.086335676
1451	0.08634515
1452	0.086354622
1453	0.086364094
1454	0.086373564
1455	0.086383034
1456	0.086392503
1457	0.086401971
1458	0.086411438
1459	0.086420904
1460	0.086430369
1461	0.086439834
1462	0.086449297
1463	0.08645876
1464	0.086468222
1465	0.086477682
1466	0.086487142
1467	0.086496601
1468	0.08650606
1469	0.086515517
1470	0.086524973
1471	0.086534429

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1472	0.086543883
1473	0.086553337
1474	0.08656279
1475	0.086572242
1476	0.086581693
1477	0.086591143
1478	0.086600592
1479	0.086610041
1480	0.086619488
1481	0.086628935
1482	0.086638381
1483	0.086647826
1484	0.08665727
1485	0.086666713
1486	0.086676155
1487	0.086685596
1488	0.086695037
1489	0.086704477
1490	0.086713915
1491	0.086723353
1492	0.08673279
1493	0.086742226
1494	0.086751662
1495	0.086761096
1496	0.08677053
1497	0.086779962
1498	0.086789394
1499	0.086798825
1500	0.086808255
1501	0.086817684
1502	0.086827112
1503	0.08683654
1504	0.086845966
1505	0.086855392
1506	0.086864817
1507	0.086874241
1508	0.086883664
1509	0.086893086
1510	0.086902508
1511	0.086911928
1512	0.086921348

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1513	0.086930767
1514	0.086940185
1515	0.086949602
1516	0.086959018
1517	0.086968434
1518	0.086977848
1519	0.086987262
1520	0.086996675
1521	0.087006086
1522	0.087015498
1523	0.087024908
1524	0.087034317
1525	0.087043726
1526	0.087053133
1527	0.08706254
1528	0.087071946
1529	0.087081351
1530	0.087090756
1531	0.087100159
1532	0.087109562
1533	0.087118963
1534	0.087128364
1535	0.087137764
1536	0.087147164
1537	0.087156562
1538	0.087165959
1539	0.087175356
1540	0.087184752
1541	0.087194147
1542	0.087203541
1543	0.087212934
1544	0.087222327
1545	0.087231718
1546	0.087241109
1547	0.087250499
1548	0.087259888
1549	0.087269276
1550	0.087278664
1551	0.08728805
1552	0.087297436
1553	0.087306821

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1554	0.087316205
1555	0.087325588
1556	0.08733497
1557	0.087344352
1558	0.087353733
1559	0.087363113
1560	0.087372492
1561	0.08738187
1562	0.087391247
1563	0.087400624
1564	0.087409999
1565	0.087419374
1566	0.087428748
1567	0.087438122
1568	0.087447494
1569	0.087456865
1570	0.087466236
1571	0.087475606
1572	0.087484975
1573	0.087494343
1574	0.087503711
1575	0.087513077
1576	0.087522443
1577	0.087531808
1578	0.087541172
1579	0.087550536
1580	0.087559898
1581	0.08756926
1582	0.087578621
1583	0.087587981
1584	0.08759734
1585	0.087606698
1586	0.087616056
1587	0.087625413
1588	0.087634768
1589	0.087644124
1590	0.087653478
1591	0.087662831
1592	0.087672184
1593	0.087681536
1594	0.087690887

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1595	0.087700237
1596	0.087709586
1597	0.087718935
1598	0.087728283
1599	0.08773763
1600	0.087746976
1601	0.087756321
1602	0.087765666
1603	0.087775009
1604	0.087784352
1605	0.087793694
1606	0.087803036
1607	0.087812376
1608	0.087821716
1609	0.087831055
1610	0.087840393
1611	0.08784973
1612	0.087859066
1613	0.087868402
1614	0.087877737
1615	0.087887071
1616	0.087896404
1617	0.087905737
1618	0.087915068
1619	0.087924399
1620	0.087933729
1621	0.087943058
1622	0.087952387
1623	0.087961714
1624	0.087971041
1625	0.087980367
1626	0.087989692
1627	0.087999017
1628	0.08800834
1629	0.088017663
1630	0.088026985
1631	0.088036306
1632	0.088045627
1633	0.088054946
1634	0.088064265
1635	0.088073583

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1636	0.088082901
1637	0.088092217
1638	0.088101533
1639	0.088110848
1640	0.088120162
1641	0.088129475
1642	0.088138787
1643	0.088148099
1644	0.08815741
1645	0.08816672
1646	0.088176029
1647	0.088185338
1648	0.088194646
1649	0.088203953
1650	0.088213259
1651	0.088222564
1652	0.088231869
1653	0.088241173
1654	0.088250476
1655	0.088259778
1656	0.08826908
1657	0.08827838
1658	0.08828768
1659	0.088296979
1660	0.088306278
1661	0.088315575
1662	0.088324872
1663	0.088334168
1664	0.088343463
1665	0.088352757
1666	0.088362051
1667	0.088371344
1668	0.088380636
1669	0.088389927
1670	0.088399218
1671	0.088408508
1672	0.088417797
1673	0.088427085
1674	0.088436372
1675	0.088445659
1676	0.088454945

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1677	0.08846423
1678	0.088473514
1679	0.088482798
1680	0.088492081
1681	0.088501363
1682	0.088510644
1683	0.088519924
1684	0.088529204
1685	0.088538483
1686	0.088547761
1687	0.088557038
1688	0.088566315
1689	0.088575591
1690	0.088584866
1691	0.08859414
1692	0.088603414
1693	0.088612686
1694	0.088621958
1695	0.08863123
1696	0.0886405
1697	0.08864977
1698	0.088659039
1699	0.088668307
1700	0.088677574
1701	0.088686841
1702	0.088696107
1703	0.088705372
1704	0.088714636
1705	0.0887239
1706	0.088733163
1707	0.088742425
1708	0.088751686
1709	0.088760946
1710	0.088770206
1711	0.088779465
1712	0.088788723
1713	0.088797981
1714	0.088807238
1715	0.088816494
1716	0.088825749
1717	0.088835003

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1718	0.088844257
1719	0.08885351
1720	0.088862762
1721	0.088872014
1722	0.088881264
1723	0.088890514
1724	0.088899763
1725	0.088909012
1726	0.088918259
1727	0.088927506
1728	0.088936752
1729	0.088945998
1730	0.088955243
1731	0.088964486
1732	0.08897373
1733	0.088982972
1734	0.088992214
1735	0.089001454
1736	0.089010695
1737	0.089019934
1738	0.089029173
1739	0.089038411
1740	0.089047648
1741	0.089056884
1742	0.08906612
1743	0.089075355
1744	0.089084589
1745	0.089093822
1746	0.089103055
1747	0.089112287
1748	0.089121518
1749	0.089130748
1750	0.089139978
1751	0.089149207
1752	0.089158435
1753	0.089167663
1754	0.089176889
1755	0.089186115
1756	0.089195341
1757	0.089204565
1758	0.089213789

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1759	0.089223012
1760	0.089232234
1761	0.089241456
1762	0.089250677
1763	0.089259897
1764	0.089269116
1765	0.089278334
1766	0.089287552
1767	0.089296769
1768	0.089305986
1769	0.089315201
1770	0.089324416
1771	0.08933363
1772	0.089342844
1773	0.089352057
1774	0.089361268
1775	0.08937048
1776	0.08937969
1777	0.0893889
1778	0.089398109
1779	0.089407317
1780	0.089416525
1781	0.089425732
1782	0.089434938
1783	0.089444143
1784	0.089453348
1785	0.089462552
1786	0.089471755
1787	0.089480957
1788	0.089490159
1789	0.08949936
1790	0.08950856
1791	0.08951776
1792	0.089526958
1793	0.089536156
1794	0.089545348
1795	0.089554496
1796	0.089563608
1797	0.091932691
1798	0.095738481
1799	0.099479642

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1800	0.103186588
1801	0.106852925
1802	0.11048663
1803	0.114096889
1804	0.117685135
1805	0.120041287
1806	0.120414086
1807	0.120791711
1808	0.12116926
1809	0.121547032
1810	0.121924891
1811	0.122302761
1812	0.122680576
1813	0.123058284
1814	0.12343584
1815	0.123813208
1816	0.124190361
1817	0.124567274
1818	0.124943928
1819	0.125320308
1820	0.125696401
1821	0.126072197
1822	0.126447688
1823	0.126822868
1824	0.127197731
1825	0.127572274
1826	0.127946493
1827	0.128320385
1828	0.12869395
1829	0.129067186
1830	0.129440091
1831	0.129812666
1832	0.13018491
1833	0.130556822
1834	0.130928404
1835	0.131299654
1836	0.131670574
1837	0.132041165
1838	0.132411425
1839	0.132781357
1840	0.133150961

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1841	0.133520237
1842	0.133889186
1843	0.134257809
1844	0.134626106
1845	0.134994079
1846	0.135361728
1847	0.135729054
1848	0.136096058
1849	0.13646274
1850	0.136829102
1851	0.137195144
1852	0.137560867
1853	0.137926272
1854	0.138291359
1855	0.13865613
1856	0.139020585
1857	0.139384726
1858	0.139748552
1859	0.140112133
1860	0.140475483
1861	0.140838615
1862	0.140999323
1863	0.141102517
1864	0.141205733
1865	0.141308938
1866	0.141412129
1867	0.141515303
1868	0.141618459
1869	0.141721595
1870	0.141824709
1871	0.1419278
1872	0.142030867
1873	0.142133909
1874	0.142236926
1875	0.142339918
1876	0.142442883
1877	0.142545822
1878	0.142648735
1879	0.14275162
1880	0.142854478
1881	0.142957309

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1882	0.143060113
1883	0.14316289
1884	0.143265639
1885	0.14336836
1886	0.143471054
1887	0.14357372
1888	0.143676359
1889	0.14377897
1890	0.143881554
1891	0.14398411
1892	0.144086638
1893	0.144189139
1894	0.144291612
1895	0.144394058
1896	0.144496476
1897	0.144598867
1898	0.14470123
1899	0.144803566
1900	0.144905875
1901	0.145008156
1902	0.145110409
1903	0.145212635
1904	0.145314834
1905	0.145417006
1906	0.14551915
1907	0.145621267
1908	0.145723357
1909	0.145825419
1910	0.145927454
1911	0.146029462
1912	0.146131443
1913	0.146233397
1914	0.146335323
1915	0.146437223
1916	0.146539095
1917	0.146640926
1918	0.146742703
1919	0.146844423
1920	0.147122584
1921	0.147544711
1922	0.147966036

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1923	0.148386873
1924	0.148807228
1925	0.149227118
1926	0.149646556
1927	0.150065551
1928	0.150484113
1929	0.150902249
1930	0.151319964
1931	0.151737265
1932	0.152154155
1933	0.152570639
1934	0.152986719
1935	0.153402398
1936	0.153817679
1937	0.154232564
1938	0.154647055
1939	0.155061153
1940	0.155474862
1941	0.155888181
1942	0.156301113
1943	0.156713659
1944	0.15712582
1945	0.157537598
1946	0.157948993
1947	0.158360008
1948	0.158770642
1949	0.159180898
1950	0.159590776
1951	0.160000278
1952	0.160409405
1953	0.160818156
1954	0.161226535
1955	0.161634542
1956	0.162042177
1957	0.162449442
1958	0.162856338
1959	0.163262865
1960	0.163669026
1961	0.16407482
1962	0.164480249
1963	0.164885314

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
1964	0.165290016
1965	0.165694356
1966	0.166098335
1967	0.166501953
1968	0.166905212
1969	0.167308113
1970	0.167710656
1971	0.168112843
1972	0.168514675
1973	0.168916152
1974	0.169317275
1975	0.169718046
1976	0.170118465
1977	0.170518548
1978	0.170918375
1979	0.171317967
1980	0.171717341
1981	0.171776527
1982	0.171824467
1983	0.171872418
1984	0.171920373
1985	0.171968329
1986	0.172016287
1987	0.172064243
1988	0.172112198
1989	0.17216015
1990	0.172208098
1991	0.172256042
1992	0.172303982
1993	0.172351917
1994	0.172399847
1995	0.172447771
1996	0.17249569
1997	0.172543603
1998	0.17259151
1999	0.172639411
2000	0.172687306
2001	0.172735195
2002	0.172783078
2003	0.172830955
2004	0.172878825

Attachment 7

AV	
20	Channel Box CP Iterpolation
21	Cp
22	BTU/lb-F
2005	0.172926689
2006	0.172974547
2007	0.173022399
2008	0.173070244
2009	0.173118083
2010	0.173165916
2011	0.173213742
2012	0.173261562
2013	0.173309376
2014	0.173357183
2015	0.173404984
2016	0.173452778
2017	0.173500567
2018	0.173548349
2019	0.173596124
2020	0.173643894
2021	0.173691657
2022	0.173739413
2023	0.173787164
2024	0.173834908

Attachment 7

	AW	AX
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19	x=MATCH(AG24,\$I\$3:\$I\$16)	x=INDEX(\$L\$3:\$L\$16,AW24)+(AG24-INDEX(\$I\$3:\$I\$16,AW24))*(INDEX(\$L\$3:\$L\$16,AW24+1)-INDEX(\$L\$3:\$L\$16,AW24))/(INDEX(\$I\$3:\$I\$16,AW24+1)-INDEX(\$I\$3:\$I\$16,AW24))
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
23	1	0.068221116
24	1	0.068221116
25	1	0.068221135
26	1	0.068221174
27	1	0.068221232
28	1	0.068221309
29	1	0.068221406
30	1	0.068221521
31	1	0.068221656
32	1	0.06822181
33	1	0.068221983
34	1	0.068222174
35	1	0.068222385
36	1	0.068222614

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
37	1	0.068222862
38	1	0.068223128
39	1	0.068223413
40	1	0.068223717
41	1	0.068224039
42	1	0.06822438
43	1	0.068224739
44	1	0.068225117
45	1	0.068225512
46	1	0.068225926
47	1	0.068226359
48	1	0.068226809
49	1	0.068227277
50	1	0.068227764
51	1	0.068228268
52	1	0.068228791
53	1	0.068229331
54	1	0.068229889
55	1	0.068230465
56	1	0.068231059
57	1	0.06823167
58	1	0.068232299
59	1	0.068232946
60	1	0.06823361
61	1	0.068234292
62	1	0.068234991
63	1	0.068235708
64	1	0.068236442
65	1	0.068237193
66	1	0.068237962
67	1	0.068238748
68	1	0.068239551
69	1	0.068240371
70	1	0.068241208
71	1	0.068242063
72	1	0.068242934
73	1	0.068243823
74	1	0.068244728
75	1	0.068245651
76	1	0.06824659
77	1	0.068247546

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
78	1	0.068248519
79	1	0.068249508
80	1	0.068250515
81	1	0.068251537
82	1	0.068252577
83	1	0.068253633
84	1	0.068254706
85	1	0.068255795
86	1	0.0682569
87	1	0.068258022
88	1	0.068259161
89	1	0.068260315
90	1	0.068261486
91	1	0.068262674
92	1	0.068263877
93	1	0.068265097
94	1	0.068266332
95	1	0.068267584
96	1	0.068268852
97	1	0.068270136
98	1	0.068271436
99	1	0.068272752
100	1	0.068274084
101	1	0.068275432
102	1	0.068276795
103	1	0.068278175
104	1	0.06827957
105	1	0.06828098
106	1	0.068282407
107	1	0.068283849
108	1	0.068285307
109	1	0.06828678
110	1	0.068288269
111	1	0.068289774
112	1	0.068291294
113	1	0.068292829
114	1	0.06829438
115	1	0.068295946
116	1	0.068297528
117	1	0.068299125
118	1	0.068300737

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
119	1	0.068302364
120	1	0.068304007
121	1	0.068305664
122	1	0.068307337
123	1	0.068309025
124	1	0.068310728
125	1	0.068312446
126	1	0.068314179
127	1	0.068315927
128	1	0.06831769
129	1	0.068319468
130	1	0.068321261
131	1	0.068323069
132	1	0.068324891
133	1	0.068326728
134	1	0.06832858
135	1	0.068330447
136	1	0.068332328
137	1	0.068334224
138	1	0.068336135
139	1	0.06833806
140	1	0.068339999
141	1	0.068341954
142	1	0.068343922
143	1	0.068345905
144	1	0.068347903
145	1	0.068349915
146	1	0.068351941
147	1	0.068353982
148	1	0.068356037
149	1	0.068358106
150	1	0.06836019
151	1	0.068362288
152	1	0.0683644
153	1	0.068366526
154	1	0.068368666
155	1	0.06837082
156	1	0.068372989
157	1	0.068375171
158	1	0.068377368
159	1	0.068379578

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
160	1	0.068381803
161	1	0.068384041
162	1	0.068386293
163	1	0.068388559
164	1	0.068390839
165	1	0.068393133
166	1	0.068395441
167	1	0.068397762
168	1	0.068400097
169	1	0.068402446
170	1	0.068404809
171	1	0.068407185
172	1	0.068409575
173	1	0.068411978
174	1	0.068414395
175	1	0.068416825
176	1	0.068419269
177	1	0.068421727
178	1	0.068424198
179	1	0.068426682
180	1	0.06842918
181	1	0.068431692
182	1	0.068434216
183	1	0.068436754
184	1	0.068439306
185	1	0.06844187
186	1	0.068444448
187	1	0.068447039
188	1	0.068449644
189	1	0.068452261
190	1	0.068454892
191	1	0.068457536
192	1	0.068460193
193	1	0.068462863
194	1	0.068465546
195	1	0.068468242
196	1	0.068470952
197	1	0.068473674
198	1	0.068476409
199	1	0.068479157
200	1	0.068481918

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
201	1	0.068484693
202	1	0.068487479
203	1	0.068490279
204	1	0.068493092
205	1	0.068495918
206	1	0.068498756
207	1	0.068501607
208	1	0.068504471
209	1	0.068507347
210	1	0.068510237
211	1	0.068513139
212	1	0.068516053
213	1	0.068518981
214	1	0.068521921
215	1	0.068524873
216	1	0.068527838
217	1	0.068530816
218	1	0.068533806
219	1	0.068536809
220	1	0.068539824
221	1	0.068542852
222	1	0.068545892
223	1	0.068548945
224	1	0.06855201
225	1	0.068555087
226	1	0.068558177
227	1	0.068561279
228	1	0.068564394
229	1	0.068567521
230	1	0.06857066
231	1	0.068573811
232	1	0.068576975
233	1	0.068580151
234	1	0.068583339
235	1	0.06858654
236	1	0.068589752
237	1	0.068592977
238	1	0.068596214
239	1	0.068599463
240	1	0.068602724
241	1	0.068605997

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
242	1	0.068609282
243	1	0.06861258
244	1	0.068615889
245	1	0.068619211
246	1	0.068622544
247	1	0.068625889
248	1	0.068629247
249	1	0.068632616
250	1	0.068635997
251	1	0.068639391
252	1	0.068642796
253	1	0.068646213
254	1	0.068649642
255	1	0.068653082
256	1	0.068656535
257	1	0.068659999
258	1	0.068663475
259	1	0.068666963
260	1	0.068670463
261	1	0.068673974
262	1	0.068677498
263	1	0.068681033
264	1	0.068684579
265	1	0.068688138
266	1	0.068691708
267	1	0.068695289
268	1	0.068698883
269	1	0.068702488
270	1	0.068706104
271	1	0.068709732
272	1	0.068713372
273	1	0.068717024
274	1	0.068720687
275	1	0.068724361
276	1	0.068728047
277	1	0.068731745
278	1	0.068735454
279	1	0.068739174
280	1	0.068742906
281	1	0.068746649
282	1	0.068750404

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
283	1	0.068754171
284	1	0.068757948
285	1	0.068761738
286	1	0.068765538
287	1	0.06876935
288	1	0.068773173
289	1	0.068777008
290	1	0.068780854
291	1	0.068784711
292	1	0.06878858
293	1	0.06879246
294	1	0.068796351
295	1	0.068800253
296	1	0.068804167
297	1	0.068808092
298	1	0.068812029
299	1	0.068815976
300	1	0.068819935
301	1	0.068823905
302	1	0.068827886
303	1	0.068831878
304	1	0.068835882
305	1	0.068839896
306	1	0.068843922
307	1	0.068847959
308	1	0.068852007
309	1	0.068856066
310	1	0.068860136
311	1	0.068864218
312	1	0.06886831
313	1	0.068872414
314	1	0.068876528
315	1	0.068880654
316	1	0.06888479
317	1	0.068888938
318	1	0.068893097
319	1	0.068897267
320	1	0.068901447
321	1	0.068905639
322	1	0.068909842
323	1	0.068914055

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
324	1	0.06891828
325	1	0.068922515
326	1	0.068926762
327	1	0.068931019
328	1	0.068935288
329	1	0.068939567
330	1	0.068943857
331	1	0.068948158
332	1	0.06895247
333	1	0.068956793
334	1	0.068961126
335	1	0.068965471
336	1	0.068969826
337	1	0.068974192
338	1	0.068978569
339	1	0.068982957
340	1	0.068987356
341	1	0.068991765
342	1	0.068996185
343	1	0.069000616
344	1	0.069005058
345	1	0.06900951
346	1	0.069013974
347	1	0.069018448
348	1	0.069022933
349	1	0.069027428
350	1	0.069031934
351	1	0.069036451
352	1	0.069040979
353	1	0.069045517
354	1	0.069050066
355	1	0.069054626
356	1	0.069059196
357	1	0.069063777
358	1	0.069068369
359	1	0.069072971
360	1	0.069077584
361	1	0.069082208
362	1	0.069086842
363	1	0.069091487
364	1	0.069096143

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
365	1	0.069100809
366	1	0.069105485
367	1	0.069110173
368	1	0.06911487
369	1	0.069119579
370	1	0.069124298
371	1	0.069129027
372	1	0.069133768
373	1	0.069138518
374	1	0.069143279
375	1	0.069148051
376	1	0.069152833
377	1	0.069157626
378	1	0.06916243
379	1	0.069167243
380	1	0.069172068
381	1	0.069176902
382	1	0.069181748
383	1	0.069186603
384	1	0.06919147
385	1	0.069196346
386	1	0.069201233
387	1	0.069206131
388	1	0.069211039
389	1	0.069215957
390	1	0.069220886
391	1	0.069225826
392	1	0.069230775
393	1	0.069235736
394	1	0.069240706
395	1	0.069245687
396	1	0.069250678
397	1	0.06925568
398	1	0.069260692
399	1	0.069265715
400	1	0.069270747
401	1	0.069275791
402	1	0.069280844
403	1	0.069285908
404	1	0.069290982
405	1	0.069296067

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
406	1	0.069301162
407	1	0.069306267
408	1	0.069311383
409	1	0.069316508
410	1	0.069321645
411	1	0.069326791
412	1	0.069331948
413	1	0.069337115
414	1	0.069342292
415	1	0.06934748
416	1	0.069352678
417	1	0.069357886
418	1	0.069363104
419	1	0.069368333
420	1	0.069373572
421	1	0.069378821
422	1	0.06938408
423	1	0.06938935
424	1	0.069394629
425	1	0.069399919
426	1	0.06940522
427	1	0.06941053
428	1	0.069415851
429	1	0.069421181
430	1	0.069426522
431	1	0.069431873
432	1	0.069437235
433	1	0.069442606
434	1	0.069447988
435	1	0.06945338
436	1	0.069458782
437	1	0.069464194
438	1	0.069469616
439	1	0.069475049
440	1	0.069480491
441	1	0.069485944
442	1	0.069491406
443	1	0.069496879
444	1	0.069502362
445	1	0.069507855
446	1	0.069513359

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
447	1	0.069518872
448	1	0.069524395
449	1	0.069529929
450	1	0.069535472
451	1	0.069541026
452	1	0.069546589
453	1	0.069552163
454	1	0.069557747
455	1	0.06956334
456	1	0.069568944
457	1	0.069574558
458	1	0.069580182
459	1	0.069585816
460	1	0.06959146
461	1	0.069597114
462	1	0.069602778
463	1	0.069608451
464	1	0.069614135
465	1	0.069619829
466	1	0.069625533
467	1	0.069631247
468	1	0.069636971
469	1	0.069642705
470	1	0.069648448
471	1	0.069654202
472	1	0.069659966
473	1	0.069665739
474	1	0.069671523
475	1	0.069677316
476	1	0.06968312
477	1	0.069688933
478	1	0.069694756
479	1	0.069700589
480	1	0.069706432
481	1	0.069712285
482	1	0.069718148
483	1	0.069724021
484	1	0.069729903
485	1	0.069735796
486	1	0.069741698
487	1	0.06974761

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
488	1	0.069753532
489	1	0.069759464
490	1	0.069765406
491	1	0.069771358
492	1	0.069777319
493	1	0.06978329
494	1	0.069789271
495	1	0.069795262
496	1	0.069801263
497	1	0.069807274
498	1	0.069813294
499	1	0.069819324
500	1	0.069825364
501	1	0.069831414
502	1	0.069837473
503	1	0.069843542
504	1	0.069849621
505	1	0.06985571
506	1	0.069861809
507	1	0.069867917
508	1	0.069874035
509	1	0.069880163
510	1	0.0698863
511	1	0.069892447
512	1	0.069898604
513	1	0.069904771
514	1	0.069910948
515	1	0.069917134
516	1	0.069923329
517	1	0.069929535
518	1	0.06993575
519	1	0.069941975
520	1	0.069948209
521	1	0.069954454
522	1	0.069960708
523	1	0.069966971
524	1	0.069973244
525	1	0.069979527
526	1	0.06998582
527	1	0.069992122
528	1	0.069998433

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
529	1	0.070004755
530	1	0.070011086
531	1	0.070017426
532	1	0.070023777
533	1	0.070030136
534	1	0.070036506
535	1	0.070042885
536	1	0.070049274
537	1	0.070055672
538	1	0.070062079
539	1	0.070068497
540	1	0.070074924
541	1	0.07008136
542	1	0.070087806
543	1	0.070094262
544	1	0.070100727
545	1	0.070107201
546	1	0.070113685
547	1	0.070120179
548	1	0.070126682
549	1	0.070133195
550	1	0.070139717
551	1	0.070146249
552	1	0.07015279
553	1	0.070159341
554	1	0.070165901
555	1	0.07017247
556	1	0.07017905
557	1	0.070185638
558	1	0.070192236
559	1	0.070198844
560	1	0.070205461
561	1	0.070212087
562	1	0.070218723
563	1	0.070225368
564	1	0.070232023
565	1	0.070238687
566	1	0.07024536
567	1	0.070252043
568	1	0.070258735
569	1	0.070265437

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
570	1	0.070272148
571	1	0.070278868
572	1	0.070285598
573	1	0.070292337
574	1	0.070299086
575	1	0.070305844
576	1	0.070312611
577	1	0.070319388
578	1	0.070326174
579	1	0.070332969
580	1	0.070339774
581	1	0.070346588
582	1	0.070353411
583	1	0.070360244
584	1	0.070367085
585	1	0.070373937
586	1	0.070380797
587	1	0.070387667
588	1	0.070394546
589	1	0.070401434
590	1	0.070408332
591	1	0.070415239
592	1	0.070422155
593	1	0.07042908
594	1	0.070436015
595	1	0.070442959
596	1	0.070449912
597	1	0.070456874
598	1	0.070463846
599	1	0.070470827
600	1	0.070477817
601	1	0.070484816
602	1	0.070491824
603	1	0.070498842
604	1	0.070505869
605	1	0.070512905
606	1	0.07051995
607	1	0.070527004
608	1	0.070534067
609	1	0.07054114
610	1	0.070548222

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
611	1	0.070555313
612	1	0.070562413
613	1	0.070569522
614	1	0.07057664
615	1	0.070583768
616	1	0.070590905
617	1	0.07059805
618	1	0.070605205
619	1	0.070612369
620	1	0.070619542
621	1	0.070626724
622	1	0.070633915
623	1	0.070641115
624	1	0.070648325
625	1	0.070655543
626	1	0.070662771
627	1	0.070670007
628	1	0.070677253
629	1	0.070684507
630	1	0.070691771
631	1	0.070699044
632	1	0.070706325
633	1	0.070713616
634	1	0.070720916
635	1	0.070728224
636	1	0.070735542
637	1	0.070742869
638	1	0.070750204
639	1	0.070757549
640	1	0.070764903
641	1	0.070772265
642	1	0.070779637
643	1	0.070787018
644	1	0.070794407
645	1	0.070801806
646	1	0.070809213
647	1	0.070816629
648	1	0.070824055
649	1	0.070831489
650	1	0.070838932
651	1	0.070846384

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
652	1	0.070853845
653	1	0.070861315
654	1	0.070868793
655	1	0.070876281
656	1	0.070883777
657	1	0.070891283
658	1	0.070898797
659	1	0.07090632
660	1	0.070913852
661	1	0.070921393
662	1	0.070928942
663	1	0.070936501
664	1	0.070944068
665	1	0.070951644
666	1	0.070959229
667	1	0.070966823
668	1	0.070974426
669	1	0.070982037
670	1	0.070989657
671	1	0.070997286
672	1	0.071004924
673	1	0.071012571
674	1	0.071020226
675	1	0.07102789
676	1	0.071035563
677	1	0.071043245
678	1	0.071050935
679	1	0.071058634
680	1	0.071066342
681	1	0.071074059
682	1	0.071081784
683	1	0.071089518
684	1	0.071097261
685	1	0.071105013
686	1	0.071112773
687	1	0.071120542
688	1	0.071128319
689	1	0.071136106
690	1	0.071143901
691	1	0.071151704
692	1	0.071159517

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
693	1	0.071167338
694	1	0.071175167
695	1	0.071183006
696	1	0.071190853
697	1	0.071198708
698	1	0.071206573
699	1	0.071214445
700	1	0.071222327
701	1	0.071230217
702	1	0.071238116
703	1	0.071246023
704	1	0.071253939
705	1	0.071261864
706	1	0.071269797
707	1	0.071277738
708	1	0.071285689
709	1	0.071293648
710	1	0.071301615
711	1	0.071309591
712	1	0.071317576
713	1	0.071325569
714	1	0.07133357
715	1	0.07134158
716	1	0.071349599
717	1	0.071357626
718	1	0.071365662
719	1	0.071373706
720	1	0.071381759
721	1	0.07138982
722	1	0.07139789
723	1	0.071405969
724	1	0.071414055
725	1	0.071422151
726	1	0.071430254
727	1	0.071438366
728	1	0.071446487
729	1	0.071454616
730	1	0.071462754
731	1	0.0714709
732	1	0.071479054
733	1	0.071487217

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
734	1	0.071495388
735	1	0.071503568
736	1	0.071511756
737	1	0.071519953
738	1	0.071528158
739	1	0.071536371
740	1	0.071544593
741	1	0.071552823
742	1	0.071561062
743	1	0.071569309
744	1	0.071577564
745	1	0.071585828
746	1	0.0715941
747	1	0.07160238
748	1	0.071610669
749	1	0.071618966
750	1	0.071627271
751	1	0.071635585
752	1	0.071643907
753	1	0.071652238
754	1	0.071660576
755	1	0.071668924
756	1	0.071677279
757	1	0.071685643
758	1	0.071694014
759	1	0.071702395
760	1	0.071710783
761	1	0.07171918
762	1	0.071727585
763	1	0.071735998
764	1	0.07174442
765	1	0.07175285
766	1	0.071761288
767	1	0.071769734
768	1	0.071778189
769	1	0.071786652
770	1	0.071795123
771	1	0.071803602
772	1	0.071812089
773	1	0.071820585
774	1	0.071829089

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
775	1	0.071837601
776	1	0.071846121
777	1	0.07185465
778	1	0.071863186
779	1	0.071871731
780	1	0.071880284
781	1	0.071888845
782	1	0.071897415
783	1	0.071905992
784	1	0.071914578
785	1	0.071923171
786	1	0.071931773
787	1	0.071940383
788	1	0.071949001
789	1	0.071957628
790	1	0.071966262
791	1	0.071974905
792	1	0.071983555
793	1	0.071992214
794	1	0.072000881
795	1	0.072009556
796	1	0.072018239
797	1	0.07202693
798	1	0.072035629
799	1	0.072044336
800	1	0.072053051
801	1	0.072061774
802	1	0.072070506
803	1	0.072079245
804	1	0.072087992
805	1	0.072096748
806	1	0.072105511
807	1	0.072114283
808	1	0.072123062
809	2	0.072131685
810	2	0.072136746
811	2	0.072141811
812	2	0.072146882
813	2	0.072151958
814	2	0.072157038
815	2	0.072162123

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
816	2	0.072167213
817	2	0.072172308
818	2	0.072177408
819	2	0.072182512
820	2	0.072187622
821	2	0.072192736
822	2	0.072197855
823	2	0.072202979
824	2	0.072208108
825	2	0.072213242
826	2	0.07221838
827	2	0.072223523
828	2	0.072228671
829	2	0.072233824
830	2	0.072238982
831	2	0.072244145
832	2	0.072249312
833	2	0.072254484
834	2	0.072259661
835	2	0.072264843
836	2	0.072270029
837	2	0.072275221
838	2	0.072280417
839	2	0.072285618
840	2	0.072290823
841	2	0.072296034
842	2	0.072301249
843	2	0.072306469
844	2	0.072311694
845	2	0.072316924
846	2	0.072322158
847	2	0.072327397
848	2	0.072332641
849	2	0.07233789
850	2	0.072343143
851	2	0.072348402
852	2	0.072353665
853	2	0.072358932
854	2	0.072364205
855	2	0.072369482
856	2	0.072374764

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
857	2	0.072380051
858	2	0.072385342
859	2	0.072390638
860	2	0.072395939
861	2	0.072401245
862	2	0.072406555
863	2	0.07241187
864	2	0.07241719
865	2	0.072422515
866	2	0.072427844
867	2	0.072433178
868	2	0.072438517
869	2	0.07244386
870	2	0.072449209
871	2	0.072454561
872	2	0.072459919
873	2	0.072465281
874	2	0.072470648
875	2	0.07247602
876	2	0.072481396
877	2	0.072486777
878	2	0.072492163
879	2	0.072497553
880	2	0.072502949
881	2	0.072508348
882	2	0.072513753
883	2	0.072519162
884	2	0.072524576
885	2	0.072529994
886	2	0.072535417
887	2	0.072540845
888	2	0.072546278
889	2	0.072551715
890	2	0.072557157
891	2	0.072562603
892	2	0.072568054
893	2	0.07257351
894	2	0.072578971
895	2	0.072584436
896	2	0.072589905
897	2	0.07259538

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
898	2	0.072600859
899	2	0.072606342
900	2	0.072611831
901	2	0.072617323
902	2	0.072622821
903	2	0.072628323
904	2	0.07263383
905	2	0.072639341
906	2	0.072644857
907	2	0.072650378
908	2	0.072655903
909	2	0.072661433
910	2	0.072666967
911	2	0.072672507
912	2	0.07267805
913	2	0.072683598
914	2	0.072689151
915	2	0.072694709
916	2	0.072700271
917	2	0.072705837
918	2	0.072711409
919	2	0.072716984
920	2	0.072722565
921	2	0.07272815
922	2	0.072733739
923	2	0.072739333
924	2	0.072744932
925	2	0.072750535
926	2	0.072756143
927	2	0.072761756
928	2	0.072767373
929	2	0.072772994
930	2	0.07277862
931	2	0.072784251
932	2	0.072789886
933	2	0.072795526
934	2	0.07280117
935	2	0.072806819
936	2	0.072812472
937	2	0.07281813
938	2	0.072823792

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
939	2	0.072829459
940	2	0.072835131
941	2	0.072840807
942	2	0.072846487
943	2	0.072852172
944	2	0.072857862
945	2	0.072863556
946	2	0.072869255
947	2	0.072874958
948	2	0.072880665
949	2	0.072886378
950	2	0.072892094
951	2	0.072897815
952	2	0.072903541
953	2	0.072909271
954	2	0.072915006
955	2	0.072920745
956	2	0.072926489
957	2	0.072932237
958	2	0.072937989
959	2	0.072943746
960	2	0.072949508
961	2	0.072955274
962	2	0.072961045
963	2	0.072966819
964	2	0.072972599
965	2	0.072978383
966	2	0.072984171
967	2	0.072989964
968	2	0.072995761
969	2	0.073001563
970	2	0.073007369
971	2	0.07301318
972	2	0.073018995
973	2	0.073024815
974	2	0.073030639
975	2	0.073036467
976	2	0.0730423
977	2	0.073048138
978	2	0.073053979
979	2	0.073059826

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
980	2	0.073065676
981	2	0.073071531
982	2	0.073077391
983	2	0.073083255
984	2	0.073089123
985	2	0.073094996
986	2	0.073100873
987	2	0.073106755
988	2	0.073112641
989	2	0.073118531
990	2	0.073124426
991	2	0.073130325
992	2	0.073136229
993	2	0.073142137
994	2	0.073148049
995	2	0.073153966
996	2	0.073159887
997	2	0.073165812
998	2	0.073171742
999	2	0.073177677
1000	2	0.073183615
1001	2	0.073189559
1002	2	0.073195506
1003	2	0.073201458
1004	2	0.073207414
1005	2	0.073213375
1006	2	0.07321934
1007	2	0.073225309
1008	2	0.073231283
1009	2	0.073237261
1010	2	0.073243243
1011	2	0.07324923
1012	2	0.073255221
1013	2	0.073261216
1014	2	0.073267216
1015	2	0.07327322
1016	2	0.073279228
1017	2	0.073285241
1018	2	0.073291258
1019	2	0.07329728
1020	2	0.073303306

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1021	2	0.073309336
1022	2	0.07331537
1023	2	0.073321409
1024	2	0.073327452
1025	2	0.073333499
1026	2	0.073339551
1027	2	0.073345607
1028	2	0.073351667
1029	2	0.073357732
1030	2	0.073363801
1031	2	0.073369874
1032	2	0.073375952
1033	2	0.073382034
1034	2	0.07338812
1035	2	0.07339421
1036	2	0.073400305
1037	2	0.073406404
1038	2	0.073412507
1039	2	0.073418615
1040	2	0.073424727
1041	2	0.073430843
1042	2	0.073436963
1043	2	0.073443088
1044	2	0.073449217
1045	2	0.07345535
1046	2	0.073461487
1047	2	0.073467629
1048	2	0.073473775
1049	2	0.073479925
1050	2	0.07348608
1051	2	0.073492239
1052	2	0.073498402
1053	2	0.073504569
1054	2	0.073510741
1055	2	0.073516916
1056	2	0.073523096
1057	2	0.073529281
1058	2	0.073535469
1059	2	0.073541662
1060	2	0.073547859
1061	2	0.07355406

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1062	2	0.073560265
1063	2	0.073566475
1064	2	0.073572689
1065	2	0.073578907
1066	2	0.073585129
1067	2	0.073591356
1068	2	0.073597586
1069	2	0.073603821
1070	2	0.07361006
1071	2	0.073616304
1072	2	0.073622551
1073	2	0.073628803
1074	2	0.073635059
1075	2	0.073641319
1076	2	0.073647583
1077	2	0.073653852
1078	2	0.073660124
1079	2	0.073666401
1080	2	0.073672682
1081	2	0.073678967
1082	2	0.073685257
1083	2	0.07369155
1084	2	0.073697848
1085	2	0.07370415
1086	2	0.073710456
1087	2	0.073716766
1088	2	0.073723081
1089	2	0.073729399
1090	2	0.073735722
1091	2	0.073742049
1092	2	0.07374838
1093	2	0.073754715
1094	2	0.073761054
1095	2	0.073767398
1096	2	0.073773746
1097	2	0.073780097
1098	2	0.073786453
1099	2	0.073792813
1100	2	0.073799177
1101	2	0.073805546
1102	2	0.073811918

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1103	2	0.073818295
1104	2	0.073824675
1105	2	0.07383106
1106	2	0.073837449
1107	2	0.073843842
1108	2	0.073850239
1109	2	0.07385664
1110	2	0.073863046
1111	2	0.073869455
1112	2	0.073875869
1113	2	0.073882286
1114	2	0.073888708
1115	2	0.073895134
1116	2	0.073901564
1117	2	0.073907998
1118	2	0.073914436
1119	2	0.073920878
1120	2	0.073927325
1121	2	0.073933775
1122	2	0.07394023
1123	2	0.073946688
1124	2	0.073953151
1125	2	0.073959617
1126	2	0.073966088
1127	2	0.073972563
1128	2	0.073979042
1129	2	0.073985525
1130	2	0.073992012
1131	2	0.073998503
1132	2	0.074004998
1133	2	0.074011497
1134	2	0.074018
1135	2	0.074024508
1136	2	0.074031019
1137	2	0.074037534
1138	2	0.074044054
1139	2	0.074050577
1140	2	0.074057105
1141	2	0.074063636
1142	2	0.074070172
1143	2	0.074076711

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1144	2	0.074083255
1145	2	0.074089803
1146	2	0.074096354
1147	2	0.07410291
1148	2	0.07410947
1149	2	0.074116033
1150	2	0.074122601
1151	2	0.074129173
1152	2	0.074135749
1153	2	0.074142328
1154	2	0.074148912
1155	2	0.0741555
1156	2	0.074162091
1157	2	0.074168687
1158	2	0.074175287
1159	2	0.074181891
1160	2	0.074188498
1161	2	0.07419511
1162	2	0.074201726
1163	2	0.074208345
1164	2	0.074214969
1165	2	0.074221596
1166	2	0.074228228
1167	2	0.074234864
1168	2	0.074241503
1169	2	0.074248147
1170	2	0.074254794
1171	2	0.074261445
1172	2	0.074268101
1173	2	0.07427476
1174	2	0.074281423
1175	2	0.074288091
1176	2	0.074294762
1177	2	0.074301437
1178	2	0.074308116
1179	2	0.074314799
1180	2	0.074321486
1181	2	0.074328177
1182	2	0.074334872
1183	2	0.07434157
1184	2	0.074348273

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1185	2	0.07435498
1186	2	0.07436169
1187	2	0.074368405
1188	2	0.074375123
1189	2	0.074381845
1190	2	0.074388572
1191	2	0.074395302
1192	2	0.074402036
1193	2	0.074408774
1194	2	0.074415515
1195	2	0.074422261
1196	2	0.074429011
1197	2	0.074435764
1198	2	0.074442522
1199	2	0.074449283
1200	2	0.074456048
1201	2	0.074462818
1202	2	0.074469591
1203	2	0.074476368
1204	2	0.074483148
1205	2	0.074489933
1206	2	0.074496722
1207	2	0.074503514
1208	2	0.07451031
1209	2	0.07451711
1210	2	0.074523914
1211	2	0.074530722
1212	2	0.074537534
1213	2	0.07454435
1214	2	0.074551169
1215	2	0.074557993
1216	2	0.07456482
1217	2	0.074571651
1218	2	0.074578486
1219	2	0.074585324
1220	2	0.074592167
1221	2	0.074599013
1222	2	0.074605864
1223	2	0.074612718
1224	2	0.074619576
1225	2	0.074626438

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1226	2	0.074633303
1227	2	0.074640173
1228	2	0.074647046
1229	2	0.074653923
1230	2	0.074660804
1231	2	0.074667689
1232	2	0.074674577
1233	2	0.074681469
1234	2	0.074688366
1235	2	0.074695266
1236	2	0.074702169
1237	2	0.074709077
1238	2	0.074715988
1239	2	0.074722904
1240	2	0.074729823
1241	2	0.074736745
1242	2	0.074743672
1243	2	0.074750602
1244	2	0.074757536
1245	2	0.074764474
1246	2	0.074771416
1247	2	0.074778362
1248	2	0.074785311
1249	2	0.074792264
1250	2	0.074799221
1251	2	0.074806181
1252	2	0.074813146
1253	2	0.074820114
1254	2	0.074827086
1255	2	0.074834062
1256	2	0.074841041
1257	2	0.074848024
1258	2	0.074855011
1259	2	0.074862002
1260	2	0.074868996
1261	2	0.074875994
1262	2	0.074882996
1263	2	0.074890002
1264	2	0.074897011
1265	2	0.074904025
1266	2	0.074911042

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1267	2	0.074918062
1268	2	0.074925087
1269	2	0.074932115
1270	2	0.074939146
1271	2	0.074946182
1272	2	0.074953221
1273	2	0.074960264
1274	2	0.074967311
1275	2	0.074974361
1276	2	0.074981416
1277	2	0.074988473
1278	2	0.074995535
1279	2	0.0750026
1280	2	0.075009669
1281	2	0.075016742
1282	2	0.075023818
1283	2	0.075030898
1284	2	0.075037982
1285	2	0.07504507
1286	2	0.075052161
1287	2	0.075059256
1288	2	0.075066354
1289	2	0.075073456
1290	2	0.075080562
1291	2	0.075087672
1292	2	0.075094785
1293	2	0.075101902
1294	2	0.075109023
1295	2	0.075116147
1296	2	0.075123275
1297	2	0.075130406
1298	2	0.075137542
1299	2	0.07514468
1300	2	0.075151823
1301	2	0.075158969
1302	2	0.075166119
1303	2	0.075173273
1304	2	0.07518043
1305	2	0.075187591
1306	2	0.075194755
1307	2	0.075201923

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1308	2	0.075209095
1309	2	0.07521627
1310	2	0.075223449
1311	2	0.075230632
1312	2	0.075237818
1313	2	0.075245008
1314	2	0.075252202
1315	2	0.075259399
1316	2	0.0752666
1317	2	0.075273804
1318	2	0.075281012
1319	2	0.075288224
1320	2	0.075295439
1321	2	0.075302658
1322	2	0.07530988
1323	2	0.075317106
1324	2	0.075324336
1325	2	0.075331569
1326	2	0.075338806
1327	2	0.075346047
1328	2	0.075353291
1329	2	0.075360538
1330	2	0.07536779
1331	2	0.075375044
1332	2	0.075382303
1333	2	0.075389565
1334	2	0.07539683
1335	2	0.075404099
1336	2	0.075411372
1337	2	0.075418648
1338	2	0.075425928
1339	2	0.075433212
1340	2	0.075440499
1341	2	0.075447789
1342	2	0.075455083
1343	2	0.075462381
1344	2	0.075469682
1345	2	0.075476987
1346	2	0.075484295
1347	2	0.075491607
1348	2	0.075498923

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1349	2	0.075506242
1350	2	0.075513564
1351	2	0.07552089
1352	2	0.07552822
1353	2	0.075535553
1354	2	0.07554289
1355	2	0.07555023
1356	2	0.075557574
1357	2	0.075564921
1358	2	0.075572272
1359	2	0.075579626
1360	2	0.075586984
1361	2	0.075594345
1362	2	0.07560171
1363	2	0.075609079
1364	2	0.07561645
1365	2	0.075623826
1366	2	0.075631205
1367	2	0.075638587
1368	2	0.075645973
1369	2	0.075653362
1370	2	0.075660755
1371	2	0.075668152
1372	2	0.075675552
1373	2	0.075682955
1374	2	0.075690362
1375	2	0.075697772
1376	2	0.075705186
1377	2	0.075712604
1378	2	0.075720024
1379	2	0.075727449
1380	2	0.075734876
1381	2	0.075742308
1382	2	0.075749742
1383	2	0.07575718
1384	2	0.075764622
1385	2	0.075772067
1386	2	0.075779516
1387	2	0.075786968
1388	2	0.075794423
1389	2	0.075801882

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1390	2	0.075809345
1391	2	0.07581681
1392	2	0.07582428
1393	2	0.075831753
1394	2	0.075839229
1395	2	0.075846708
1396	2	0.075854191
1397	2	0.075861678
1398	2	0.075869168
1399	2	0.075876661
1400	2	0.075884158
1401	2	0.075891658
1402	2	0.075899162
1403	2	0.075906669
1404	2	0.075914179
1405	2	0.075921693
1406	2	0.075929211
1407	2	0.075936731
1408	2	0.075944256
1409	2	0.075951783
1410	2	0.075959314
1411	2	0.075966848
1412	2	0.075974386
1413	2	0.075981927
1414	2	0.075989472
1415	2	0.07599702
1416	2	0.076004571
1417	2	0.076012126
1418	2	0.076019684
1419	2	0.076027246
1420	2	0.076034811
1421	2	0.076042379
1422	2	0.076049951
1423	2	0.076057526
1424	2	0.076065104
1425	2	0.076072686
1426	2	0.076080271
1427	2	0.07608786
1428	2	0.076095452
1429	2	0.076103047
1430	2	0.076110646

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1431	2	0.076118248
1432	2	0.076125853
1433	2	0.076133462
1434	2	0.076141074
1435	2	0.076148689
1436	2	0.076156308
1437	2	0.07616393
1438	2	0.076171556
1439	2	0.076179185
1440	2	0.076186817
1441	2	0.076194452
1442	2	0.076202091
1443	2	0.076209733
1444	2	0.076217379
1445	2	0.076225028
1446	2	0.07623268
1447	2	0.076240335
1448	2	0.076247994
1449	2	0.076255656
1450	2	0.076263322
1451	2	0.076270991
1452	2	0.076278663
1453	2	0.076286338
1454	2	0.076294017
1455	2	0.076301699
1456	2	0.076309384
1457	2	0.076317073
1458	2	0.076324765
1459	2	0.07633246
1460	2	0.076340159
1461	2	0.07634786
1462	2	0.076355565
1463	2	0.076363274
1464	2	0.076370986
1465	2	0.076378701
1466	2	0.076386419
1467	2	0.07639414
1468	2	0.076401865
1469	2	0.076409593
1470	2	0.076417325
1471	2	0.076425059

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1472	2	0.076432797
1473	2	0.076440539
1474	2	0.076448283
1475	2	0.076456031
1476	2	0.076463782
1477	2	0.076471536
1478	2	0.076479293
1479	2	0.076487054
1480	2	0.076494818
1481	2	0.076502586
1482	2	0.076510356
1483	2	0.07651813
1484	2	0.076525907
1485	2	0.076533687
1486	2	0.076541471
1487	2	0.076549257
1488	2	0.076557047
1489	2	0.07656484
1490	2	0.076572637
1491	2	0.076580437
1492	2	0.076588239
1493	2	0.076596046
1494	2	0.076603855
1495	2	0.076611667
1496	2	0.076619483
1497	2	0.076627302
1498	2	0.076635124
1499	2	0.07664295
1500	2	0.076650779
1501	2	0.07665861
1502	2	0.076666445
1503	2	0.076674284
1504	2	0.076682125
1505	2	0.07668997
1506	2	0.076697818
1507	2	0.076705669
1508	2	0.076713523
1509	2	0.07672138
1510	2	0.076729241
1511	2	0.076737105
1512	2	0.076744972

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1513	2	0.076752842
1514	2	0.076760715
1515	2	0.076768592
1516	2	0.076776472
1517	2	0.076784354
1518	2	0.07679224
1519	2	0.07680013
1520	2	0.076808022
1521	2	0.076815918
1522	2	0.076823816
1523	2	0.076831718
1524	2	0.076839623
1525	2	0.076847531
1526	2	0.076855443
1527	2	0.076863357
1528	2	0.076871275
1529	2	0.076879196
1530	2	0.07688712
1531	2	0.076895047
1532	2	0.076902977
1533	2	0.07691091
1534	2	0.076918847
1535	2	0.076926786
1536	2	0.076934729
1537	2	0.076942675
1538	2	0.076950624
1539	2	0.076958576
1540	2	0.076966532
1541	2	0.07697449
1542	2	0.076982452
1543	2	0.076990416
1544	2	0.076998384
1545	2	0.077006355
1546	2	0.077014329
1547	2	0.077022306
1548	2	0.077030286
1549	2	0.077038269
1550	2	0.077046256
1551	2	0.077054245
1552	2	0.077062238
1553	2	0.077070234

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1554	2	0.077078232
1555	2	0.077086234
1556	2	0.077094239
1557	2	0.077102247
1558	2	0.077110259
1559	2	0.077118273
1560	2	0.07712629
1561	2	0.077134311
1562	2	0.077142334
1563	2	0.077150361
1564	2	0.07715839
1565	2	0.077166423
1566	2	0.077174459
1567	2	0.077182498
1568	2	0.077190539
1569	2	0.077198584
1570	2	0.077206632
1571	2	0.077214684
1572	2	0.077222738
1573	2	0.077230795
1574	2	0.077238855
1575	2	0.077246918
1576	2	0.077254985
1577	2	0.077263054
1578	2	0.077271127
1579	2	0.077279202
1580	2	0.077287281
1581	2	0.077295362
1582	2	0.077303447
1583	2	0.077311535
1584	2	0.077319625
1585	2	0.077327719
1586	2	0.077335816
1587	2	0.077343915
1588	2	0.077352018
1589	2	0.077360124
1590	2	0.077368233
1591	2	0.077376345
1592	2	0.07738446
1593	2	0.077392577
1594	2	0.077400698

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1595	2	0.077408822
1596	2	0.077416949
1597	2	0.077425079
1598	2	0.077433212
1599	2	0.077441348
1600	2	0.077449487
1601	2	0.077457629
1602	2	0.077465773
1603	2	0.077473921
1604	2	0.077482072
1605	2	0.077490226
1606	2	0.077498383
1607	2	0.077506543
1608	2	0.077514706
1609	2	0.077522871
1610	2	0.07753104
1611	2	0.077539212
1612	2	0.077547387
1613	2	0.077555564
1614	2	0.077563745
1615	2	0.077571929
1616	2	0.077580115
1617	2	0.077588305
1618	2	0.077596497
1619	2	0.077604693
1620	2	0.077612891
1621	2	0.077621093
1622	2	0.077629297
1623	2	0.077637504
1624	2	0.077645715
1625	2	0.077653928
1626	2	0.077662144
1627	2	0.077670363
1628	2	0.077678585
1629	2	0.07768681
1630	2	0.077695038
1631	2	0.077703269
1632	2	0.077711503
1633	2	0.077719739
1634	2	0.077727979
1635	2	0.077736222

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1636	2	0.077744467
1637	2	0.077752716
1638	2	0.077760967
1639	2	0.077769221
1640	2	0.077777478
1641	2	0.077785738
1642	2	0.077794002
1643	2	0.077802267
1644	2	0.077810536
1645	2	0.077818808
1646	2	0.077827083
1647	2	0.07783536
1648	2	0.077843641
1649	2	0.077851924
1650	2	0.07786021
1651	2	0.077868499
1652	2	0.077876791
1653	2	0.077885086
1654	2	0.077893384
1655	2	0.077901685
1656	2	0.077909988
1657	2	0.077918295
1658	2	0.077926604
1659	2	0.077934916
1660	2	0.077943231
1661	2	0.077951549
1662	2	0.07795987
1663	2	0.077968194
1664	2	0.077976521
1665	2	0.07798485
1666	2	0.077993182
1667	2	0.078001517
1668	2	0.078009856
1669	2	0.078018196
1670	2	0.07802654
1671	2	0.078034887
1672	2	0.078043236
1673	2	0.078051589
1674	2	0.078059944
1675	2	0.078068302
1676	2	0.078076663

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1677	2	0.078085026
1678	2	0.078093393
1679	2	0.078101762
1680	2	0.078110134
1681	2	0.078118509
1682	2	0.078126887
1683	2	0.078135268
1684	2	0.078143652
1685	2	0.078152038
1686	2	0.078160427
1687	2	0.078168819
1688	2	0.078177214
1689	2	0.078185612
1690	2	0.078194012
1691	2	0.078202415
1692	2	0.078210821
1693	2	0.07821923
1694	2	0.078227642
1695	2	0.078236057
1696	2	0.078244474
1697	2	0.078252894
1698	2	0.078261317
1699	2	0.078269743
1700	2	0.078278171
1701	2	0.078286603
1702	2	0.078295037
1703	2	0.078303474
1704	2	0.078311913
1705	2	0.078320356
1706	2	0.078328801
1707	2	0.078337249
1708	2	0.0783457
1709	2	0.078354154
1710	2	0.07836261
1711	2	0.078371069
1712	2	0.078379531
1713	2	0.078387996
1714	2	0.078396463
1715	2	0.078404934
1716	2	0.078413407
1717	2	0.078421882

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1718	2	0.078430361
1719	2	0.078438842
1720	2	0.078447326
1721	2	0.078455813
1722	2	0.078464303
1723	2	0.078472795
1724	2	0.07848129
1725	2	0.078489788
1726	2	0.078498289
1727	2	0.078506792
1728	2	0.078515298
1729	2	0.078523807
1730	2	0.078532318
1731	2	0.078540833
1732	2	0.07854935
1733	2	0.078557869
1734	2	0.078566392
1735	2	0.078574917
1736	2	0.078583445
1737	2	0.078591976
1738	2	0.078600509
1739	2	0.078609045
1740	2	0.078617584
1741	2	0.078626126
1742	2	0.07863467
1743	2	0.078643217
1744	2	0.078651767
1745	2	0.078660319
1746	2	0.078668874
1747	2	0.078677432
1748	2	0.078685992
1749	2	0.078694556
1750	2	0.078703122
1751	2	0.07871169
1752	2	0.078720262
1753	2	0.078728836
1754	2	0.078737412
1755	2	0.078745992
1756	2	0.078754574
1757	2	0.078763159
1758	2	0.078771746

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1759	2	0.078780336
1760	2	0.078788929
1761	2	0.078797524
1762	2	0.078806123
1763	2	0.078814724
1764	2	0.078823327
1765	2	0.078831933
1766	2	0.078840542
1767	2	0.078849154
1768	2	0.078857768
1769	2	0.078866385
1770	2	0.078875004
1771	2	0.078883627
1772	2	0.078892251
1773	2	0.078900879
1774	2	0.078909509
1775	2	0.078918142
1776	2	0.078926777
1777	2	0.078935415
1778	2	0.078944056
1779	2	0.0789527
1780	2	0.078961346
1781	2	0.078969994
1782	2	0.078978646
1783	2	0.0789873
1784	2	0.078995956
1785	2	0.079004616
1786	2	0.079013278
1787	2	0.079021942
1788	2	0.079030609
1789	2	0.079039279
1790	2	0.079047951
1791	2	0.079056626
1792	3	0.079063909
1793	3	0.079070933
1794	3	0.079077959
1795	3	0.079084988
1796	3	0.079092019
1797	3	0.079099052
1798	3	0.079106087
1799	3	0.079113124

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1800	3	0.079120163
1801	3	0.079127203
1802	3	0.079134246
1803	3	0.079141291
1804	3	0.079148337
1805	3	0.079155386
1806	3	0.079162436
1807	3	0.079169488
1808	3	0.079176542
1809	3	0.079183597
1810	3	0.079190654
1811	3	0.079197714
1812	3	0.079204774
1813	3	0.079211837
1814	3	0.079218901
1815	3	0.079225968
1816	3	0.079233035
1817	3	0.079240105
1818	3	0.079247176
1819	3	0.079254249
1820	3	0.079261324
1821	3	0.079268401
1822	3	0.079275479
1823	3	0.079282559
1824	3	0.07928964
1825	3	0.079296723
1826	3	0.079303808
1827	3	0.079310895
1828	3	0.079317983
1829	3	0.079325073
1830	3	0.079332164
1831	3	0.079339257
1832	3	0.079346352
1833	3	0.079353448
1834	3	0.079360546
1835	3	0.079367646
1836	3	0.079374747
1837	3	0.07938185
1838	3	0.079388954
1839	3	0.07939606
1840	3	0.079403168

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1841	3	0.079410277
1842	3	0.079417388
1843	3	0.0794245
1844	3	0.079431614
1845	3	0.07943873
1846	3	0.079445847
1847	3	0.079452965
1848	3	0.079460085
1849	3	0.079467207
1850	3	0.07947433
1851	3	0.079481455
1852	3	0.079488581
1853	3	0.079495709
1854	3	0.079502838
1855	3	0.079509969
1856	3	0.079517101
1857	3	0.079524235
1858	3	0.07953137
1859	3	0.079538507
1860	3	0.079545645
1861	3	0.079552785
1862	3	0.079559926
1863	3	0.079567069
1864	3	0.079574213
1865	3	0.079581358
1866	3	0.079588505
1867	3	0.079595654
1868	3	0.079602804
1869	3	0.079609955
1870	3	0.079617108
1871	3	0.079624262
1872	3	0.079631418
1873	3	0.079638575
1874	3	0.079645734
1875	3	0.079652894
1876	3	0.079660055
1877	3	0.079667218
1878	3	0.079674383
1879	3	0.079681548
1880	3	0.079688716
1881	3	0.079695884

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1882	3	0.079703055
1883	3	0.079710226
1884	3	0.079717399
1885	3	0.079724573
1886	3	0.079731749
1887	3	0.079738926
1888	3	0.079746105
1889	3	0.079753285
1890	3	0.079760467
1891	3	0.079767649
1892	3	0.079774834
1893	3	0.079782019
1894	3	0.079789206
1895	3	0.079796395
1896	3	0.079803585
1897	3	0.079810776
1898	3	0.079817969
1899	3	0.079825163
1900	3	0.079832358
1901	3	0.079839555
1902	3	0.079846753
1903	3	0.079853953
1904	3	0.079861154
1905	3	0.079868356
1906	3	0.07987556
1907	3	0.079882765
1908	3	0.079889971
1909	3	0.079897179
1910	3	0.079904388
1911	3	0.079911599
1912	3	0.079918811
1913	3	0.079926024
1914	3	0.079933239
1915	3	0.079940455
1916	3	0.079947672
1917	3	0.079954891
1918	3	0.079962111
1919	3	0.079969332
1920	3	0.079976555
1921	3	0.079983779
1922	3	0.079991004

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1923	3	0.079998231
1924	3	0.080005459
1925	3	0.080012688
1926	3	0.080019919
1927	3	0.08002715
1928	3	0.080034384
1929	3	0.080041618
1930	3	0.080048854
1931	3	0.080056091
1932	3	0.080063329
1933	3	0.080070569
1934	3	0.08007781
1935	3	0.080085052
1936	3	0.080092295
1937	3	0.080099539
1938	3	0.080106785
1939	3	0.080114032
1940	3	0.08012128
1941	3	0.08012853
1942	3	0.080135781
1943	3	0.080143032
1944	3	0.080150286
1945	3	0.08015754
1946	3	0.080164795
1947	3	0.080172052
1948	3	0.08017931
1949	3	0.080186569
1950	3	0.080193829
1951	3	0.08020109
1952	3	0.080208353
1953	3	0.080215616
1954	3	0.080222881
1955	3	0.080230147
1956	3	0.080237414
1957	3	0.080244682
1958	3	0.080251951
1959	3	0.080259222
1960	3	0.080266493
1961	3	0.080273766
1962	3	0.08028104
1963	3	0.080288315

Attachment 7

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1964	3	0.08029559
1965	3	0.080302867
1966	3	0.080310146
1967	3	0.080317425
1968	3	0.080324705
1969	3	0.080331986
1970	3	0.080339269
1971	3	0.080346552
1972	3	0.080353836
1973	3	0.080361122
1974	3	0.080368409
1975	3	0.080375696
1976	3	0.080382985
1977	3	0.080390274
1978	3	0.080397565
1979	3	0.080404857
1980	3	0.080412149
1981	3	0.080419443
1982	3	0.080426738
1983	3	0.080434034
1984	3	0.08044133
1985	3	0.080448628
1986	3	0.080455927
1987	3	0.080463227
1988	3	0.080470528
1989	3	0.080477829
1990	3	0.080485132
1991	3	0.080492436
1992	3	0.080499741
1993	3	0.080507046
1994	3	0.080514353
1995	3	0.080521661
1996	3	0.08052897
1997	3	0.08053628
1998	3	0.08054359
1999	3	0.080550902
2000	3	0.080558215
2001	3	0.080565528
2002	3	0.080572843
2003	3	0.080580159
2004	3	0.080587476

	AW	AX
20	UP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
2005	3	0.080594793
2006	3	0.080602112
2007	3	0.080609431
2008	3	0.080616752
2009	3	0.080624074
2010	3	0.080631396
2011	3	0.08063872
2012	3	0.080646044
2013	3	0.08065337
2014	3	0.080660696
2015	3	0.080668024
2016	3	0.080675352
2017	3	0.080682681
2018	3	0.080690012
2019	3	0.080697343
2020	3	0.080704675
2021	3	0.080712008
2022	3	0.080719343
2023	3	0.080726678
2024	3	0.080734014

	AY	AZ
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18		
19	x=MATCH(AH24,\$I\$3:\$I\$16)	x=INDEX(\$L\$3:\$L\$16,AY24)+(AH24-INDEX(\$I\$3:\$I\$16,AY24))*(INDEX(\$L\$3:\$L\$16,AY24+1)-INDEX(\$L\$3:\$L\$16,AY24))/(INDEX(\$I\$3:\$I\$16,AY24+1)-INDEX(\$I\$3:\$I\$16,AY24))
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
23	1	0.068221116
24	1	0.068221116
25	1	0.068221147
26	1	0.068221209
27	1	0.068221303
28	1	0.068221427
29	1	0.068221582
30	1	0.068221768
31	1	0.068221984
32	1	0.068222231
33	1	0.068222508
34	1	0.068222815
35	1	0.068223153
36	1	0.06822352

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
37	1	0.068223918
38	1	0.068224345
39	1	0.068224803
40	1	0.06822529
41	1	0.068225806
42	1	0.068226352
43	1	0.068226927
44	1	0.068227532
45	1	0.068228166
46	1	0.068228829
47	1	0.068229521
48	1	0.068230241
49	1	0.068230991
50	1	0.068231769
51	1	0.068232576
52	1	0.068233412
53	1	0.068234276
54	1	0.068235168
55	1	0.068236089
56	1	0.068237038
57	1	0.068238015
58	1	0.06823902
59	1	0.068240053
60	1	0.068241114
61	1	0.068242203
62	1	0.068243319
63	1	0.068244463
64	1	0.068245635
65	1	0.068246834
66	1	0.06824806
67	1	0.068249314
68	1	0.068250595
69	1	0.068251903
70	1	0.068253238
71	1	0.0682546
72	1	0.068255989
73	1	0.068257404
74	1	0.068258847
75	1	0.068260316
76	1	0.068261812
77	1	0.068263334

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
78	1	0.068264883
79	1	0.068266458
80	1	0.068268059
81	1	0.068269687
82	1	0.068271341
83	1	0.06827302
84	1	0.068274726
85	1	0.068276458
86	1	0.068278215
87	1	0.068279999
88	1	0.068281808
89	1	0.068283642
90	1	0.068285502
91	1	0.068287388
92	1	0.068289299
93	1	0.068291235
94	1	0.068293197
95	1	0.068295184
96	1	0.068297196
97	1	0.068299233
98	1	0.068301295
99	1	0.068303382
100	1	0.068305494
101	1	0.068307631
102	1	0.068309792
103	1	0.068311978
104	1	0.068314189
105	1	0.068316424
106	1	0.068318684
107	1	0.068320968
108	1	0.068323276
109	1	0.068325609
110	1	0.068327965
111	1	0.068330346
112	1	0.068332751
113	1	0.06833518
114	1	0.068337633
115	1	0.06834011
116	1	0.068342611
117	1	0.068345135
118	1	0.068347683

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
119	1	0.068350255
120	1	0.06835285
121	1	0.068355468
122	1	0.068358111
123	1	0.068360776
124	1	0.068363465
125	1	0.068366177
126	1	0.068368912
127	1	0.068371671
128	1	0.068374452
129	1	0.068377257
130	1	0.068380084
131	1	0.068382934
132	1	0.068385808
133	1	0.068388704
134	1	0.068391622
135	1	0.068394563
136	1	0.068397527
137	1	0.068400514
138	1	0.068403523
139	1	0.068406554
140	1	0.068409608
141	1	0.068412684
142	1	0.068415782
143	1	0.068418902
144	1	0.068422045
145	1	0.06842521
146	1	0.068428396
147	1	0.068431605
148	1	0.068434836
149	1	0.068438088
150	1	0.068441362
151	1	0.068444658
152	1	0.068447976
153	1	0.068451316
154	1	0.068454677
155	1	0.068458059
156	1	0.068461463
157	1	0.068464888
158	1	0.068468335
159	1	0.068471803

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
160	1	0.068475293
161	1	0.068478803
162	1	0.068482335
163	1	0.068485888
164	1	0.068489462
165	1	0.068493057
166	1	0.068496673
167	1	0.06850031
168	1	0.068503968
169	1	0.068507646
170	1	0.068511346
171	1	0.068515066
172	1	0.068518806
173	1	0.068522568
174	1	0.06852635
175	1	0.068530152
176	1	0.068533975
177	1	0.068537818
178	1	0.068541682
179	1	0.068545566
180	1	0.06854947
181	1	0.068553395
182	1	0.06855734
183	1	0.068561305
184	1	0.06856529
185	1	0.068569295
186	1	0.06857332
187	1	0.068577365
188	1	0.06858143
189	1	0.068585515
190	1	0.068589619
191	1	0.068593744
192	1	0.068597888
193	1	0.068602052
194	1	0.068606235
195	1	0.068610438
196	1	0.068614661
197	1	0.068618903
198	1	0.068623165
199	1	0.068627446
200	1	0.068631747

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
201	1	0.068636066
202	1	0.068640406
203	1	0.068644764
204	1	0.068649142
205	1	0.068653538
206	1	0.068657954
207	1	0.068662389
208	1	0.068666843
209	1	0.068671316
210	1	0.068675808
211	1	0.068680319
212	1	0.068684849
213	1	0.068689398
214	1	0.068693966
215	1	0.068698552
216	1	0.068703157
217	1	0.068707781
218	1	0.068712423
219	1	0.068717084
220	1	0.068721764
221	1	0.068726462
222	1	0.068731178
223	1	0.068735913
224	1	0.068740667
225	1	0.068745439
226	1	0.068750229
227	1	0.068755037
228	1	0.068759864
229	1	0.068764709
230	1	0.068769572
231	1	0.068774454
232	1	0.068779353
233	1	0.068784271
234	1	0.068789207
235	1	0.06879416
236	1	0.068799132
237	1	0.068804121
238	1	0.068809129
239	1	0.068814154
240	1	0.068819198
241	1	0.068824259

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
242	1	0.068829338
243	1	0.068834434
244	1	0.068839548
245	1	0.06884468
246	1	0.06884983
247	1	0.068854997
248	1	0.068860182
249	1	0.068865384
250	1	0.068870604
251	1	0.068875841
252	1	0.068881096
253	1	0.068886368
254	1	0.068891658
255	1	0.068896965
256	1	0.068902289
257	1	0.068907631
258	1	0.068912989
259	1	0.068918366
260	1	0.068923759
261	1	0.068929169
262	1	0.068934597
263	1	0.068940041
264	1	0.068945503
265	1	0.068950982
266	1	0.068956477
267	1	0.06896199
268	1	0.06896752
269	1	0.068973067
270	1	0.06897863
271	1	0.06898421
272	1	0.068989808
273	1	0.068995422
274	1	0.069001053
275	1	0.0690067
276	1	0.069012365
277	1	0.069018046
278	1	0.069023744
279	1	0.069029458
280	1	0.069035189
281	1	0.069040937
282	1	0.069046701

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
283	1	0.069052482
284	1	0.069058279
285	1	0.069064093
286	1	0.069069923
287	1	0.069075769
288	1	0.069081633
289	1	0.069087512
290	1	0.069093408
291	1	0.06909932
292	1	0.069105248
293	1	0.069111193
294	1	0.069117154
295	1	0.069123132
296	1	0.069129125
297	1	0.069135135
298	1	0.069141161
299	1	0.069147203
300	1	0.069153261
301	1	0.069159335
302	1	0.069165425
303	1	0.069171532
304	1	0.069177654
305	1	0.069183793
306	1	0.069189947
307	1	0.069196117
308	1	0.069202304
309	1	0.069208506
310	1	0.069214724
311	1	0.069220958
312	1	0.069227208
313	1	0.069233474
314	1	0.069239755
315	1	0.069246052
316	1	0.069252365
317	1	0.069258694
318	1	0.069265039
319	1	0.069271399
320	1	0.069277775
321	1	0.069284166
322	1	0.069290573
323	1	0.069296996

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
324	1	0.069303435
325	1	0.069309889
326	1	0.069316358
327	1	0.069322843
328	1	0.069329344
329	1	0.06933586
330	1	0.069342392
331	1	0.069348939
332	1	0.069355501
333	1	0.069362079
334	1	0.069368672
335	1	0.069375281
336	1	0.069381905
337	1	0.069388545
338	1	0.069395199
339	1	0.069401869
340	1	0.069408555
341	1	0.069415255
342	1	0.069421971
343	1	0.069428702
344	1	0.069435449
345	1	0.06944221
346	1	0.069448987
347	1	0.069455779
348	1	0.069462586
349	1	0.069469408
350	1	0.069476246
351	1	0.069483098
352	1	0.069489966
353	1	0.069496848
354	1	0.069503746
355	1	0.069510659
356	1	0.069517586
357	1	0.069524529
358	1	0.069531487
359	1	0.069538459
360	1	0.069545447
361	1	0.069552449
362	1	0.069559467
363	1	0.069566499
364	1	0.069573546

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
365	1	0.069580608
366	1	0.069587685
367	1	0.069594777
368	1	0.069601884
369	1	0.069609005
370	1	0.069616141
371	1	0.069623292
372	1	0.069630458
373	1	0.069637638
374	1	0.069644834
375	1	0.069652043
376	1	0.069659268
377	1	0.069666507
378	1	0.069673761
379	1	0.06968103
380	1	0.069688313
381	1	0.069695611
382	1	0.069702924
383	1	0.069710251
384	1	0.069717592
385	1	0.069724948
386	1	0.069732319
387	1	0.069739705
388	1	0.069747104
389	1	0.069754519
390	1	0.069761948
391	1	0.069769391
392	1	0.069776849
393	1	0.069784321
394	1	0.069791808
395	1	0.069799309
396	1	0.069806824
397	1	0.069814354
398	1	0.069821898
399	1	0.069829457
400	1	0.06983703
401	1	0.069844617
402	1	0.069852219
403	1	0.069859835
404	1	0.069867465
405	1	0.06987511

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
406	1	0.069882769
407	1	0.069890442
408	1	0.069898129
409	1	0.069905831
410	1	0.069913546
411	1	0.069921276
412	1	0.069929021
413	1	0.069936779
414	1	0.069944551
415	1	0.069952338
416	1	0.069960139
417	1	0.069967954
418	1	0.069975783
419	1	0.069983626
420	1	0.069991483
421	1	0.069999355
422	1	0.07000724
423	1	0.070015139
424	1	0.070023053
425	1	0.07003098
426	1	0.070038922
427	1	0.070046877
428	1	0.070054847
429	1	0.07006283
430	1	0.070070827
431	1	0.070078839
432	1	0.070086864
433	1	0.070094903
434	1	0.070102956
435	1	0.070111023
436	1	0.070119104
437	1	0.070127199
438	1	0.070135307
439	1	0.07014343
440	1	0.070151566
441	1	0.070159716
442	1	0.07016788
443	1	0.070176057
444	1	0.070184249
445	1	0.070192454
446	1	0.070200673

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
447	1	0.070208906
448	1	0.070217152
449	1	0.070225412
450	1	0.070233686
451	1	0.070241973
452	1	0.070250275
453	1	0.07025859
454	1	0.070266918
455	1	0.07027526
456	1	0.070283616
457	1	0.070291985
458	1	0.070300368
459	1	0.070308765
460	1	0.070317175
461	1	0.070325599
462	1	0.070334036
463	1	0.070342487
464	1	0.070350951
465	1	0.070359429
466	1	0.070367921
467	1	0.070376425
468	1	0.070384944
469	1	0.070393476
470	1	0.070402021
471	1	0.07041058
472	1	0.070419152
473	1	0.070427737
474	1	0.070436336
475	1	0.070444949
476	1	0.070453574
477	1	0.070462213
478	1	0.070470866
479	1	0.070479532
480	1	0.070488211
481	1	0.070496903
482	1	0.070505609
483	1	0.070514328
484	1	0.070523061
485	1	0.070531806
486	1	0.070540565
487	1	0.070549337

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
488	1	0.070558122
489	1	0.070566921
490	1	0.070575733
491	1	0.070584558
492	1	0.070593396
493	1	0.070602247
494	1	0.070611112
495	1	0.070619989
496	1	0.07062888
497	1	0.070637784
498	1	0.070646701
499	1	0.070655631
500	1	0.070664574
501	1	0.070673531
502	1	0.0706825
503	1	0.070691482
504	1	0.070700478
505	1	0.070709486
506	1	0.070718508
507	1	0.070727542
508	1	0.07073659
509	1	0.07074565
510	1	0.070754723
511	1	0.07076381
512	1	0.070772909
513	1	0.070782021
514	1	0.070791146
515	1	0.070800284
516	1	0.070809435
517	1	0.070818599
518	1	0.070827776
519	1	0.070836965
520	1	0.070846168
521	1	0.070855383
522	1	0.070864611
523	1	0.070873851
524	1	0.070883105
525	1	0.070892371
526	1	0.070901651
527	1	0.070910942
528	1	0.070920247

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
529	1	0.070929564
530	1	0.070938894
531	1	0.070948237
532	1	0.070957593
533	1	0.070966961
534	1	0.070976342
535	1	0.070985735
536	1	0.070995141
537	1	0.07100456
538	1	0.071013991
539	1	0.071023435
540	1	0.071032892
541	1	0.071042361
542	1	0.071051843
543	1	0.071061337
544	1	0.071070844
545	1	0.071080363
546	1	0.071089895
547	1	0.071099439
548	1	0.071108996
549	1	0.071118566
550	1	0.071128148
551	1	0.071137742
552	1	0.071147349
553	1	0.071156968
554	1	0.071166599
555	1	0.071176243
556	1	0.0711859
557	1	0.071195569
558	1	0.07120525
559	1	0.071214943
560	1	0.071224649
561	1	0.071234367
562	1	0.071244098
563	1	0.071253841
564	1	0.071263596
565	1	0.071273363
566	1	0.071283143
567	1	0.071292935
568	1	0.071302739
569	1	0.071312556

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
570	1	0.071322384
571	1	0.071332225
572	1	0.071342078
573	1	0.071351944
574	1	0.071361821
575	1	0.071371711
576	1	0.071381612
577	1	0.071391526
578	1	0.071401452
579	1	0.07141139
580	1	0.071421341
581	1	0.071431303
582	1	0.071441278
583	1	0.071451264
584	1	0.071461263
585	1	0.071471273
586	1	0.071481296
587	1	0.07149133
588	1	0.071501377
589	1	0.071511436
590	1	0.071521506
591	1	0.071531589
592	1	0.071541683
593	1	0.07155179
594	1	0.071561908
595	1	0.071572039
596	1	0.071582181
597	1	0.071592335
598	1	0.071602501
599	1	0.071612679
600	1	0.071622869
601	1	0.07163307
602	1	0.071643284
603	1	0.071653509
604	1	0.071663746
605	1	0.071673995
606	1	0.071684255
607	1	0.071694528
608	1	0.071704812
609	1	0.071715108
610	1	0.071725415

Attachment 7

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
611	1	0.071735735
612	1	0.071746066
613	1	0.071756408
614	1	0.071766763
615	1	0.071777129
616	1	0.071787507
617	1	0.071797896
618	1	0.071808297
619	1	0.07181871
620	1	0.071829134
621	1	0.07183957
622	1	0.071850018
623	1	0.071860477
624	1	0.071870947
625	1	0.07188143
626	1	0.071891923
627	1	0.071902429
628	1	0.071912945
629	1	0.071923474
630	1	0.071934013
631	1	0.071944565
632	1	0.071955127
633	1	0.071965701
634	1	0.071976287
635	1	0.071986884
636	1	0.071997493
637	1	0.072008112
638	1	0.072018744
639	1	0.072029386
640	1	0.07204004
641	1	0.072050706
642	1	0.072061382
643	1	0.072072071
644	1	0.07208277
645	1	0.072093481
646	1	0.072104203
647	1	0.072114936
648	1	0.07212568
649	2	0.072134324
650	2	0.072140519
651	2	0.072146721

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
652	2	0.072152931
653	2	0.072159147
654	2	0.07216537
655	2	0.072171599
656	2	0.072177836
657	2	0.072184079
658	2	0.07219033
659	2	0.072196587
660	2	0.07220285
661	2	0.072209121
662	2	0.072215398
663	2	0.072221683
664	2	0.072227974
665	2	0.072234271
666	2	0.072240576
667	2	0.072246887
668	2	0.072253205
669	2	0.07225953
670	2	0.072265862
671	2	0.0722722
672	2	0.072278545
673	2	0.072284897
674	2	0.072291255
675	2	0.07229762
676	2	0.072303992
677	2	0.072310371
678	2	0.072316756
679	2	0.072323148
680	2	0.072329546
681	2	0.072335952
682	2	0.072342364
683	2	0.072348782
684	2	0.072355208
685	2	0.07236164
686	2	0.072368078
687	2	0.072374523
688	2	0.072380975
689	2	0.072387434
690	2	0.072393899
691	2	0.072400371
692	2	0.072406849

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
693	2	0.072413334
694	2	0.072419826
695	2	0.072426324
696	2	0.072432828
697	2	0.07243934
698	2	0.072445858
699	2	0.072452382
700	2	0.072458913
701	2	0.072465451
702	2	0.072471995
703	2	0.072478546
704	2	0.072485103
705	2	0.072491666
706	2	0.072498237
707	2	0.072504814
708	2	0.072511397
709	2	0.072517987
710	2	0.072524583
711	2	0.072531186
712	2	0.072537795
713	2	0.072544411
714	2	0.072551033
715	2	0.072557662
716	2	0.072564297
717	2	0.072570939
718	2	0.072577587
719	2	0.072584241
720	2	0.072590902
721	2	0.07259757
722	2	0.072604244
723	2	0.072610924
724	2	0.072617611
725	2	0.072624304
726	2	0.072631004
727	2	0.07263771
728	2	0.072644422
729	2	0.072651141
730	2	0.072657866
731	2	0.072664597
732	2	0.072671335
733	2	0.072678079

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
734	2	0.07268483
735	2	0.072691587
736	2	0.07269835
737	2	0.07270512
738	2	0.072711896
739	2	0.072718678
740	2	0.072725467
741	2	0.072732262
742	2	0.072739063
743	2	0.072745871
744	2	0.072752685
745	2	0.072759505
746	2	0.072766332
747	2	0.072773164
748	2	0.072780003
749	2	0.072786849
750	2	0.0727937
751	2	0.072800558
752	2	0.072807422
753	2	0.072814293
754	2	0.072821169
755	2	0.072828052
756	2	0.072834941
757	2	0.072841837
758	2	0.072848738
759	2	0.072855646
760	2	0.07286256
761	2	0.07286948
762	2	0.072876406
763	2	0.072883339
764	2	0.072890278
765	2	0.072897223
766	2	0.072904174
767	2	0.072911131
768	2	0.072918095
769	2	0.072925064
770	2	0.07293204
771	2	0.072939022
772	2	0.07294601
773	2	0.072953004
774	2	0.072960004

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
775	2	0.072967011
776	2	0.072974023
777	2	0.072981042
778	2	0.072988067
779	2	0.072995098
780	2	0.073002135
781	2	0.073009178
782	2	0.073016227
783	2	0.073023282
784	2	0.073030343
785	2	0.073037411
786	2	0.073044484
787	2	0.073051563
788	2	0.073058649
789	2	0.073065741
790	2	0.073072838
791	2	0.073079942
792	2	0.073087051
793	2	0.073094167
794	2	0.073101289
795	2	0.073108416
796	2	0.07311555
797	2	0.07312269
798	2	0.073129835
799	2	0.073136987
800	2	0.073144145
801	2	0.073151308
802	2	0.073158478
803	2	0.073165654
804	2	0.073172835
805	2	0.073180023
806	2	0.073187216
807	2	0.073194415
808	2	0.073201621
809	2	0.073208832
810	2	0.073216049
811	2	0.073223272
812	2	0.073230501
813	2	0.073237736
814	2	0.073244977
815	2	0.073252223

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
816	2	0.073259476
817	2	0.073266734
818	2	0.073273999
819	2	0.073281269
820	2	0.073288545
821	2	0.073295827
822	2	0.073303115
823	2	0.073310408
824	2	0.073317708
825	2	0.073325013
826	2	0.073332324
827	2	0.073339641
828	2	0.073346964
829	2	0.073354293
830	2	0.073361627
831	2	0.073368967
832	2	0.073376313
833	2	0.073383665
834	2	0.073391023
835	2	0.073398386
836	2	0.073405756
837	2	0.07341313
838	2	0.073420511
839	2	0.073427898
840	2	0.07343529
841	2	0.073442688
842	2	0.073450092
843	2	0.073457501
844	2	0.073464916
845	2	0.073472337
846	2	0.073479764
847	2	0.073487196
848	2	0.073494634
849	2	0.073502078
850	2	0.073509528
851	2	0.073516983
852	2	0.073524444
853	2	0.07353191
854	2	0.073539382
855	2	0.07354686
856	2	0.073554344

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
857	2	0.073561833
858	2	0.073569328
859	2	0.073576828
860	2	0.073584335
861	2	0.073591846
862	2	0.073599364
863	2	0.073606887
864	2	0.073614416
865	2	0.07362195
866	2	0.07362949
867	2	0.073637035
868	2	0.073644586
869	2	0.073652143
870	2	0.073659705
871	2	0.073667273
872	2	0.073674847
873	2	0.073682426
874	2	0.07369001
875	2	0.0736976
876	2	0.073705196
877	2	0.073712797
878	2	0.073720404
879	2	0.073728017
880	2	0.073735634
881	2	0.073743258
882	2	0.073750887
883	2	0.073758521
884	2	0.073766161
885	2	0.073773807
886	2	0.073781458
887	2	0.073789114
888	2	0.073796776
889	2	0.073804444
890	2	0.073812116
891	2	0.073819795
892	2	0.073827479
893	2	0.073835168
894	2	0.073842863
895	2	0.073850563
896	2	0.073858269
897	2	0.07386598

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
898	2	0.073873696
899	2	0.073881418
900	2	0.073889146
901	2	0.073896879
902	2	0.073904617
903	2	0.073912361
904	2	0.07392011
905	2	0.073927864
906	2	0.073935624
907	2	0.073943389
908	2	0.07395116
909	2	0.073958936
910	2	0.073966717
911	2	0.073974504
912	2	0.073982296
913	2	0.073990093
914	2	0.073997896
915	2	0.074005704
916	2	0.074013518
917	2	0.074021336
918	2	0.074029161
919	2	0.07403699
920	2	0.074044825
921	2	0.074052665
922	2	0.07406051
923	2	0.074068361
924	2	0.074076217
925	2	0.074084078
926	2	0.074091945
927	2	0.074099817
928	2	0.074107694
929	2	0.074115576
930	2	0.074123464
931	2	0.074131357
932	2	0.074139255
933	2	0.074147158
934	2	0.074155067
935	2	0.074162981
936	2	0.0741709
937	2	0.074178824
938	2	0.074186754

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	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
939	2	0.074194688
940	2	0.074202628
941	2	0.074210574
942	2	0.074218524
943	2	0.07422648
944	2	0.07423444
945	2	0.074242406
946	2	0.074250377
947	2	0.074258354
948	2	0.074266335
949	2	0.074274322
950	2	0.074282314
951	2	0.074290311
952	2	0.074298313
953	2	0.07430632
954	2	0.074314332
955	2	0.07432235
956	2	0.074330372
957	2	0.0743384
958	2	0.074346433
959	2	0.074354471
960	2	0.074362514
961	2	0.074370562
962	2	0.074378615
963	2	0.074386674
964	2	0.074394737
965	2	0.074402806
966	2	0.074410879
967	2	0.074418958
968	2	0.074427042
969	2	0.07443513
970	2	0.074443224
971	2	0.074451323
972	2	0.074459427
973	2	0.074467536
974	2	0.07447565
975	2	0.074483769
976	2	0.074491893
977	2	0.074500022
978	2	0.074508156
979	2	0.074516295

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
980	2	0.074524439
981	2	0.074532588
982	2	0.074540742
983	2	0.074548901
984	2	0.074557065
985	2	0.074565234
986	2	0.074573408
987	2	0.074581587
988	2	0.074589771
989	2	0.07459796
990	2	0.074606154
991	2	0.074614352
992	2	0.074622556
993	2	0.074630765
994	2	0.074638978
995	2	0.074647196
996	2	0.07465542
997	2	0.074663648
998	2	0.074671881
999	2	0.074680119
1000	2	0.074688362
1001	2	0.07469661
1002	2	0.074704863
1003	2	0.07471312
1004	2	0.074721383
1005	2	0.07472965
1006	2	0.074737923
1007	2	0.0747462
1008	2	0.074754482
1009	2	0.074762768
1010	2	0.07477106
1011	2	0.074779357
1012	2	0.074787658
1013	2	0.074795964
1014	2	0.074804275
1015	2	0.074812591
1016	2	0.074820911
1017	2	0.074829237
1018	2	0.074837567
1019	2	0.074845902
1020	2	0.074854242

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1021	2	0.074862586
1022	2	0.074870936
1023	2	0.07487929
1024	2	0.074887649
1025	2	0.074896013
1026	2	0.074904381
1027	2	0.074912754
1028	2	0.074921132
1029	2	0.074929515
1030	2	0.074937903
1031	2	0.074946295
1032	2	0.074954692
1033	2	0.074963093
1034	2	0.0749715
1035	2	0.074979911
1036	2	0.074988327
1037	2	0.074996747
1038	2	0.075005172
1039	2	0.075013602
1040	2	0.075022037
1041	2	0.075030476
1042	2	0.07503892
1043	2	0.075047369
1044	2	0.075055822
1045	2	0.07506428
1046	2	0.075072743
1047	2	0.07508121
1048	2	0.075089682
1049	2	0.075098159
1050	2	0.07510664
1051	2	0.075115126
1052	2	0.075123617
1053	2	0.075132112
1054	2	0.075140612
1055	2	0.075149116
1056	2	0.075157625
1057	2	0.075166139
1058	2	0.075174657
1059	2	0.07518318
1060	2	0.075191708
1061	2	0.07520024

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	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1062	2	0.075208776
1063	2	0.075217317
1064	2	0.075225863
1065	2	0.075234413
1066	2	0.075242968
1067	2	0.075251528
1068	2	0.075260092
1069	2	0.07526866
1070	2	0.075277233
1071	2	0.075285811
1072	2	0.075294393
1073	2	0.07530298
1074	2	0.075311571
1075	2	0.075320167
1076	2	0.075328767
1077	2	0.075337372
1078	2	0.075345981
1079	2	0.075354595
1080	2	0.075363213
1081	2	0.075371836
1082	2	0.075380463
1083	2	0.075389095
1084	2	0.075397731
1085	2	0.075406372
1086	2	0.075415017
1087	2	0.075423667
1088	2	0.075432321
1089	2	0.075440979
1090	2	0.075449642
1091	2	0.075458309
1092	2	0.075466981
1093	2	0.075475658
1094	2	0.075484338
1095	2	0.075493023
1096	2	0.075501713
1097	2	0.075510407
1098	2	0.075519105
1099	2	0.075527808
1100	2	0.075536515
1101	2	0.075545227
1102	2	0.075553942

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1103	2	0.075562663
1104	2	0.075571387
1105	2	0.075580116
1106	2	0.07558885
1107	2	0.075597588
1108	2	0.07560633
1109	2	0.075615076
1110	2	0.075623827
1111	2	0.075632582
1112	2	0.075641342
1113	2	0.075650106
1114	2	0.075658874
1115	2	0.075667646
1116	2	0.075676423
1117	2	0.075685204
1118	2	0.07569399
1119	2	0.07570278
1120	2	0.075711574
1121	2	0.075720372
1122	2	0.075729175
1123	2	0.075737982
1124	2	0.075746793
1125	2	0.075755608
1126	2	0.075764428
1127	2	0.075773252
1128	2	0.07578208
1129	2	0.075790913
1130	2	0.07579975
1131	2	0.075808591
1132	2	0.075817436
1133	2	0.075826286
1134	2	0.075835139
1135	2	0.075843997
1136	2	0.07585286
1137	2	0.075861726
1138	2	0.075870597
1139	2	0.075879472
1140	2	0.075888351
1141	2	0.075897234
1142	2	0.075906121
1143	2	0.075915013

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1144	2	0.075923909
1145	2	0.075932809
1146	2	0.075941713
1147	2	0.075950622
1148	2	0.075959534
1149	2	0.075968451
1150	2	0.075977372
1151	2	0.075986297
1152	2	0.075995226
1153	2	0.076004159
1154	2	0.076013097
1155	2	0.076022038
1156	2	0.076030984
1157	2	0.076039934
1158	2	0.076048888
1159	2	0.076057846
1160	2	0.076066808
1161	2	0.076075774
1162	2	0.076084745
1163	2	0.076093719
1164	2	0.076102698
1165	2	0.076111681
1166	2	0.076120667
1167	2	0.076129658
1168	2	0.076138653
1169	2	0.076147652
1170	2	0.076156655
1171	2	0.076165663
1172	2	0.076174674
1173	2	0.076183689
1174	2	0.076192708
1175	2	0.076201732
1176	2	0.076210759
1177	2	0.07621979
1178	2	0.076228826
1179	2	0.076237865
1180	2	0.076246909
1181	2	0.076255956
1182	2	0.076265008
1183	2	0.076274063
1184	2	0.076283123

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1185	2	0.076292186
1186	2	0.076301254
1187	2	0.076310325
1188	2	0.076319401
1189	2	0.07632848
1190	2	0.076337564
1191	2	0.076346651
1192	2	0.076355742
1193	2	0.076364838
1194	2	0.076373937
1195	2	0.07638304
1196	2	0.076392147
1197	2	0.076401258
1198	2	0.076410373
1199	2	0.076419492
1200	2	0.076428615
1201	2	0.076437742
1202	2	0.076446873
1203	2	0.076456008
1204	2	0.076465146
1205	2	0.076474289
1206	2	0.076483435
1207	2	0.076492585
1208	2	0.07650174
1209	2	0.076510898
1210	2	0.07652006
1211	2	0.076529225
1212	2	0.076538395
1213	2	0.076547569
1214	2	0.076556746
1215	2	0.076565927
1216	2	0.076575113
1217	2	0.076584302
1218	2	0.076593494
1219	2	0.076602691
1220	2	0.076611892
1221	2	0.076621096
1222	2	0.076630304
1223	2	0.076639516
1224	2	0.076648732
1225	2	0.076657952

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	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1226	2	0.076667175
1227	2	0.076676402
1228	2	0.076685634
1229	2	0.076694868
1230	2	0.076704107
1231	2	0.07671335
1232	2	0.076722596
1233	2	0.076731846
1234	2	0.0767411
1235	2	0.076750357
1236	2	0.076759619
1237	2	0.076768884
1238	2	0.076778153
1239	2	0.076787425
1240	2	0.076796702
1241	2	0.076805982
1242	2	0.076815266
1243	2	0.076824553
1244	2	0.076833845
1245	2	0.07684314
1246	2	0.076852438
1247	2	0.076861741
1248	2	0.076871047
1249	2	0.076880357
1250	2	0.076889671
1251	2	0.076898988
1252	2	0.076908309
1253	2	0.076917634
1254	2	0.076926962
1255	2	0.076936294
1256	2	0.07694563
1257	2	0.07695497
1258	2	0.076964313
1259	2	0.076973659
1260	2	0.07698301
1261	2	0.076992364
1262	2	0.077001722
1263	2	0.077011083
1264	2	0.077020448
1265	2	0.077029817
1266	2	0.077039189

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1267	2	0.077048565
1268	2	0.077057945
1269	2	0.077067328
1270	2	0.077076715
1271	2	0.077086106
1272	2	0.0770955
1273	2	0.077104897
1274	2	0.077114299
1275	2	0.077123703
1276	2	0.077133112
1277	2	0.077142524
1278	2	0.07715194
1279	2	0.077161359
1280	2	0.077170782
1281	2	0.077180208
1282	2	0.077189638
1283	2	0.077199072
1284	2	0.077208509
1285	2	0.077217949
1286	2	0.077227394
1287	2	0.077236841
1288	2	0.077246293
1289	2	0.077255747
1290	2	0.077265206
1291	2	0.077274668
1292	2	0.077284133
1293	2	0.077293602
1294	2	0.077303074
1295	2	0.07731255
1296	2	0.07732203
1297	2	0.077331513
1298	2	0.077340999
1299	2	0.077350489
1300	2	0.077359983
1301	2	0.07736948
1302	2	0.07737898
1303	2	0.077388484
1304	2	0.077397991
1305	2	0.077407502
1306	2	0.077417017
1307	2	0.077426534

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1308	2	0.077436056
1309	2	0.07744558
1310	2	0.077455109
1311	2	0.07746464
1312	2	0.077474175
1313	2	0.077483714
1314	2	0.077493256
1315	2	0.077502801
1316	2	0.07751235
1317	2	0.077521902
1318	2	0.077531458
1319	2	0.077541017
1320	2	0.077550579
1321	2	0.077560145
1322	2	0.077569714
1323	2	0.077579287
1324	2	0.077588863
1325	2	0.077598442
1326	2	0.077608025
1327	2	0.077617611
1328	2	0.077627201
1329	2	0.077636794
1330	2	0.07764639
1331	2	0.07765599
1332	2	0.077665593
1333	2	0.077675199
1334	2	0.077684809
1335	2	0.077694422
1336	2	0.077704039
1337	2	0.077713658
1338	2	0.077723281
1339	2	0.077732908
1340	2	0.077742538
1341	2	0.077752171
1342	2	0.077761807
1343	2	0.077771447
1344	2	0.07778109
1345	2	0.077790736
1346	2	0.077800386
1347	2	0.077810039
1348	2	0.077819695

Attachment 7

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1349	2	0.077829355
1350	2	0.077839018
1351	2	0.077848684
1352	2	0.077858353
1353	2	0.077868026
1354	2	0.077877702
1355	2	0.077887381
1356	2	0.077897063
1357	2	0.077906749
1358	2	0.077916438
1359	2	0.07792613
1360	2	0.077935826
1361	2	0.077945525
1362	2	0.077955226
1363	2	0.077964932
1364	2	0.07797464
1365	2	0.077984352
1366	2	0.077994067
1367	2	0.078003785
1368	2	0.078013506
1369	2	0.078023231
1370	2	0.078032958
1371	2	0.078042689
1372	2	0.078052423
1373	2	0.078062161
1374	2	0.078071901
1375	2	0.078081645
1376	2	0.078091392
1377	2	0.078101142
1378	2	0.078110895
1379	2	0.078120652
1380	2	0.078130411
1381	2	0.078140174
1382	2	0.07814994
1383	2	0.078159709
1384	2	0.078169481
1385	2	0.078179257
1386	2	0.078189035
1387	2	0.078198817
1388	2	0.078208602
1389	2	0.07821839

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1390	2	0.078228181
1391	2	0.078237975
1392	2	0.078247772
1393	2	0.078257573
1394	2	0.078267376
1395	2	0.078277183
1396	2	0.078286993
1397	2	0.078296805
1398	2	0.078306621
1399	2	0.07831644
1400	2	0.078326263
1401	2	0.078336088
1402	2	0.078345916
1403	2	0.078355748
1404	2	0.078365582
1405	2	0.07837542
1406	2	0.07838526
1407	2	0.078395104
1408	2	0.078404951
1409	2	0.0784148
1410	2	0.078424653
1411	2	0.078434509
1412	2	0.078444368
1413	2	0.07845423
1414	2	0.078464095
1415	2	0.078473963
1416	2	0.078483834
1417	2	0.078493708
1418	2	0.078503585
1419	2	0.078513466
1420	2	0.078523349
1421	2	0.078533235
1422	2	0.078543124
1423	2	0.078553016
1424	2	0.078562911
1425	2	0.07857281
1426	2	0.078582711
1427	2	0.078592615
1428	2	0.078602522
1429	2	0.078612432
1430	2	0.078622345

Attachment 7

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1431	2	0.078632261
1432	2	0.07864218
1433	2	0.078652102
1434	2	0.078662027
1435	2	0.078671955
1436	2	0.078681886
1437	2	0.07869182
1438	2	0.078701757
1439	2	0.078711697
1440	2	0.078721639
1441	2	0.078731585
1442	2	0.078741533
1443	2	0.078751485
1444	2	0.078761439
1445	2	0.078771397
1446	2	0.078781357
1447	2	0.07879132
1448	2	0.078801286
1449	2	0.078811255
1450	2	0.078821227
1451	2	0.078831202
1452	2	0.078841179
1453	2	0.07885116
1454	2	0.078861143
1455	2	0.07887113
1456	2	0.078881119
1457	2	0.078891111
1458	2	0.078901106
1459	2	0.078911104
1460	2	0.078921104
1461	2	0.078931108
1462	2	0.078941114
1463	2	0.078951124
1464	2	0.078961136
1465	2	0.078971151
1466	2	0.078981169
1467	2	0.078991189
1468	2	0.079001213
1469	2	0.079011239
1470	2	0.079021268
1471	2	0.0790313

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1472	2	0.079041335
1473	2	0.079051373
1474	3	0.07906076
1475	3	0.079068887
1476	3	0.079077017
1477	3	0.079085149
1478	3	0.079093283
1479	3	0.07910142
1480	3	0.079109559
1481	3	0.079117701
1482	3	0.079125845
1483	3	0.079133992
1484	3	0.079142141
1485	3	0.079150293
1486	3	0.079158447
1487	3	0.079166603
1488	3	0.079174762
1489	3	0.079182924
1490	3	0.079191087
1491	3	0.079199254
1492	3	0.079207422
1493	3	0.079215593
1494	3	0.079223767
1495	3	0.079231943
1496	3	0.079240121
1497	3	0.079248302
1498	3	0.079256485
1499	3	0.07926467
1500	3	0.079272858
1501	3	0.079281048
1502	3	0.079289241
1503	3	0.079297436
1504	3	0.079305634
1505	3	0.079313833
1506	3	0.079322036
1507	3	0.07933024
1508	3	0.079338447
1509	3	0.079346657
1510	3	0.079354868
1511	3	0.079363083
1512	3	0.079371299

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1513	3	0.079379518
1514	3	0.079387739
1515	3	0.079395963
1516	3	0.079404188
1517	3	0.079412417
1518	3	0.079420647
1519	3	0.07942888
1520	3	0.079437116
1521	3	0.079445353
1522	3	0.079453593
1523	3	0.079461835
1524	3	0.07947008
1525	3	0.079478327
1526	3	0.079486576
1527	3	0.079494828
1528	3	0.079503082
1529	3	0.079511338
1530	3	0.079519597
1531	3	0.079527858
1532	3	0.079536121
1533	3	0.079544386
1534	3	0.079552654
1535	3	0.079560924
1536	3	0.079569196
1537	3	0.079577471
1538	3	0.079585748
1539	3	0.079594027
1540	3	0.079602309
1541	3	0.079610593
1542	3	0.079618879
1543	3	0.079627167
1544	3	0.079635458
1545	3	0.079643751
1546	3	0.079652046
1547	3	0.079660344
1548	3	0.079668643
1549	3	0.079676945
1550	3	0.07968525
1551	3	0.079693556
1552	3	0.079701865
1553	3	0.079710176

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1554	3	0.079718489
1555	3	0.079726805
1556	3	0.079735122
1557	3	0.079743442
1558	3	0.079751765
1559	3	0.079760089
1560	3	0.079768416
1561	3	0.079776745
1562	3	0.079785076
1563	3	0.079793409
1564	3	0.079801745
1565	3	0.079810083
1566	3	0.079818423
1567	3	0.079826765
1568	3	0.079835109
1569	3	0.079843456
1570	3	0.079851805
1571	3	0.079860156
1572	3	0.079868509
1573	3	0.079876865
1574	3	0.079885222
1575	3	0.079893582
1576	3	0.079901944
1577	3	0.079910308
1578	3	0.079918675
1579	3	0.079927043
1580	3	0.079935414
1581	3	0.079943787
1582	3	0.079952162
1583	3	0.079960539
1584	3	0.079968919
1585	3	0.0799773
1586	3	0.079985684
1587	3	0.07999407
1588	3	0.080002458
1589	3	0.080010848
1590	3	0.080019241
1591	3	0.080027635
1592	3	0.080036032
1593	3	0.080044431
1594	3	0.080052831

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1595	3	0.080061235
1596	3	0.08006964
1597	3	0.080078047
1598	3	0.080086457
1599	3	0.080094868
1600	3	0.080103282
1601	3	0.080111698
1602	3	0.080120116
1603	3	0.080128536
1604	3	0.080136958
1605	3	0.080145382
1606	3	0.080153809
1607	3	0.080162237
1608	3	0.080170668
1609	3	0.080179101
1610	3	0.080187535
1611	3	0.080195972
1612	3	0.080204411
1613	3	0.080212852
1614	3	0.080221296
1615	3	0.080229741
1616	3	0.080238188
1617	3	0.080246638
1618	3	0.080255089
1619	3	0.080263543
1620	3	0.080271998
1621	3	0.080280456
1622	3	0.080288916
1623	3	0.080297378
1624	3	0.080305842
1625	3	0.080314308
1626	3	0.080322776
1627	3	0.080331246
1628	3	0.080339718
1629	3	0.080348192
1630	3	0.080356668
1631	3	0.080365146
1632	3	0.080373627
1633	3	0.080382109
1634	3	0.080390593
1635	3	0.08039908

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1636	3	0.080407568
1637	3	0.080416059
1638	3	0.080424551
1639	3	0.080433046
1640	3	0.080441542
1641	3	0.080450041
1642	3	0.080458542
1643	3	0.080467044
1644	3	0.080475549
1645	3	0.080484055
1646	3	0.080492564
1647	3	0.080501075
1648	3	0.080509587
1649	3	0.080518102
1650	3	0.080526618
1651	3	0.080535137
1652	3	0.080543658
1653	3	0.08055218
1654	3	0.080560705
1655	3	0.080569231
1656	3	0.08057776
1657	3	0.08058629
1658	3	0.080594823
1659	3	0.080603357
1660	3	0.080611894
1661	3	0.080620432
1662	3	0.080628973
1663	3	0.080637515
1664	3	0.080646059
1665	3	0.080654605
1666	3	0.080663154
1667	3	0.080671704
1668	3	0.080680256
1669	3	0.08068881
1670	3	0.080697366
1671	3	0.080705924
1672	3	0.080714484
1673	3	0.080723046
1674	3	0.080731609
1675	3	0.080740175
1676	3	0.080748743

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1677	3	0.080757312
1678	3	0.080765884
1679	3	0.080774457
1680	3	0.080783032
1681	3	0.08079161
1682	3	0.080800189
1683	3	0.08080877
1684	3	0.080817353
1685	3	0.080825938
1686	3	0.080834525
1687	3	0.080843113
1688	3	0.080851704
1689	3	0.080860296
1690	3	0.080868891
1691	3	0.080877487
1692	3	0.080886085
1693	3	0.080894686
1694	3	0.080903287
1695	3	0.080911891
1696	3	0.080920497
1697	3	0.080929105
1698	3	0.080937714
1699	3	0.080946326
1700	3	0.080954939
1701	3	0.080963554
1702	3	0.080972171
1703	3	0.08098079
1704	3	0.080989411
1705	3	0.080998033
1706	3	0.081006658
1707	3	0.081015284
1708	3	0.081023912
1709	3	0.081032542
1710	3	0.081041174
1711	3	0.081049808
1712	3	0.081058443
1713	3	0.081067081
1714	3	0.08107572
1715	3	0.081084361
1716	3	0.081093004
1717	3	0.081101649

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1718	3	0.081110295
1719	3	0.081118944
1720	3	0.081127594
1721	3	0.081136246
1722	3	0.0811449
1723	3	0.081153556
1724	3	0.081162213
1725	3	0.081170872
1726	3	0.081179534
1727	3	0.081188196
1728	3	0.081196861
1729	3	0.081205528
1730	3	0.081214196
1731	3	0.081222866
1732	3	0.081231538
1733	3	0.081240212
1734	3	0.081248888
1735	3	0.081257565
1736	3	0.081266244
1737	3	0.081274925
1738	3	0.081283608
1739	3	0.081292292
1740	3	0.081300979
1741	3	0.081309667
1742	3	0.081318357
1743	3	0.081327048
1744	3	0.081335742
1745	3	0.081344437
1746	3	0.081353134
1747	3	0.081361832
1748	3	0.081370533
1749	3	0.081379235
1750	3	0.081387939
1751	3	0.081396645
1752	3	0.081405352
1753	3	0.081414061
1754	3	0.081422772
1755	3	0.081431485
1756	3	0.0814402
1757	3	0.081448916
1758	3	0.081457634

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1759	3	0.081466354
1760	3	0.081475075
1761	3	0.081483798
1762	3	0.081492523
1763	3	0.08150125
1764	3	0.081509978
1765	3	0.081518708
1766	3	0.08152744
1767	3	0.081536174
1768	3	0.081544909
1769	3	0.081553646
1770	3	0.081562384
1771	3	0.081571125
1772	3	0.081579867
1773	3	0.081588611
1774	3	0.081597356
1775	3	0.081606103
1776	3	0.081614852
1777	3	0.081623603
1778	3	0.081632355
1779	3	0.081641109
1780	3	0.081649865
1781	3	0.081658622
1782	3	0.081667381
1783	3	0.081676142
1784	3	0.081684905
1785	3	0.081693669
1786	3	0.081702435
1787	3	0.081711202
1788	3	0.081719971
1789	3	0.081728742
1790	3	0.081737515
1791	3	0.081746289
1792	3	0.081755065
1793	3	0.081763842
1794	3	0.081772621
1795	3	0.081781402
1796	3	0.081790184
1797	3	0.081798968
1798	3	0.081807753
1799	3	0.081816539

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1800	3	0.081825326
1801	3	0.081834115
1802	3	0.081842904
1803	3	0.081851695
1804	3	0.081860486
1805	3	0.081869278
1806	3	0.081878072
1807	3	0.081886866
1808	3	0.081895661
1809	3	0.081904457
1810	3	0.081913254
1811	3	0.081922052
1812	3	0.08193085
1813	3	0.08193965
1814	3	0.08194845
1815	3	0.081957251
1816	3	0.081966053
1817	3	0.081974855
1818	3	0.081983659
1819	3	0.081992463
1820	3	0.082001267
1821	3	0.082010073
1822	3	0.082018879
1823	3	0.082027686
1824	3	0.082036494
1825	3	0.082045302
1826	3	0.082054111
1827	3	0.082062921
1828	3	0.082071731
1829	3	0.082080542
1830	3	0.082089354
1831	3	0.082098166
1832	3	0.082106979
1833	3	0.082115793
1834	3	0.082124607
1835	3	0.082133422
1836	3	0.082142237
1837	3	0.082151053
1838	3	0.082159869
1839	3	0.082168686
1840	3	0.082177504

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1841	3	0.082186322
1842	3	0.082195141
1843	3	0.08220396
1844	3	0.08221278
1845	3	0.0822216
1846	3	0.082230421
1847	3	0.082239242
1848	3	0.082248064
1849	3	0.082256886
1850	3	0.082265709
1851	3	0.082274532
1852	3	0.082283355
1853	3	0.082292179
1854	3	0.082301004
1855	3	0.082309829
1856	3	0.082318654
1857	3	0.08232748
1858	3	0.082336306
1859	3	0.082345132
1860	3	0.082353959
1861	3	0.082362786
1862	3	0.082371614
1863	3	0.082380442
1864	3	0.082389271
1865	3	0.082398099
1866	3	0.082406928
1867	3	0.082415758
1868	3	0.082424588
1869	3	0.082433418
1870	3	0.082442249
1871	3	0.08245108
1872	3	0.082459911
1873	3	0.082468743
1874	3	0.082477574
1875	3	0.082486407
1876	3	0.082495239
1877	3	0.082504072
1878	3	0.082512906
1879	3	0.082521739
1880	3	0.082530573
1881	3	0.082539408

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1882	3	0.082548242
1883	3	0.082557077
1884	3	0.082565912
1885	3	0.082574748
1886	3	0.082583584
1887	3	0.08259242
1888	3	0.082601256
1889	3	0.082610093
1890	3	0.08261893
1891	3	0.082627768
1892	3	0.082636605
1893	3	0.082645443
1894	3	0.082654281
1895	3	0.08266312
1896	3	0.082671959
1897	3	0.082680798
1898	3	0.082689637
1899	3	0.082698477
1900	3	0.082707316
1901	3	0.082716157
1902	3	0.082724997
1903	3	0.082733838
1904	3	0.082742679
1905	3	0.08275152
1906	3	0.082760361
1907	3	0.082769203
1908	3	0.082778045
1909	3	0.082786887
1910	3	0.082795729
1911	3	0.082804572
1912	3	0.082813415
1913	3	0.082822258
1914	3	0.082831101
1915	3	0.082839945
1916	3	0.082848789
1917	3	0.082857633
1918	3	0.082866477
1919	3	0.082875322
1920	3	0.082884166
1921	3	0.082893011
1922	3	0.082901856

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1923	3	0.082910701
1924	3	0.082919547
1925	3	0.082928392
1926	3	0.082937238
1927	3	0.082946084
1928	3	0.08295493
1929	3	0.082963776
1930	3	0.082972622
1931	3	0.082981468
1932	3	0.082990315
1933	3	0.082999161
1934	3	0.083008008
1935	3	0.083016854
1936	3	0.083025701
1937	3	0.083034548
1938	3	0.083043395
1939	3	0.083052242
1940	3	0.083061088
1941	3	0.083069935
1942	3	0.083078782
1943	3	0.083087629
1944	3	0.083096476
1945	3	0.083105323
1946	3	0.08311417
1947	3	0.083123017
1948	3	0.083131863
1949	3	0.08314071
1950	3	0.083149557
1951	3	0.083158404
1952	3	0.08316725
1953	3	0.083176097
1954	3	0.083184943
1955	3	0.083193789
1956	3	0.083202636
1957	3	0.083211482
1958	3	0.083220328
1959	3	0.083229174
1960	3	0.083238019
1961	3	0.083246865
1962	3	0.08325571
1963	3	0.083264556

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
1964	3	0.083273401
1965	3	0.083282246
1966	3	0.08329109
1967	3	0.083299935
1968	3	0.083308779
1969	3	0.083317624
1970	3	0.083326467
1971	3	0.083335311
1972	3	0.083344155
1973	3	0.083352998
1974	3	0.083361841
1975	3	0.083370684
1976	3	0.083379526
1977	3	0.083388369
1978	3	0.083397211
1979	3	0.083406052
1980	3	0.083414894
1981	3	0.083423735
1982	3	0.083432576
1983	3	0.083441416
1984	3	0.083450257
1985	3	0.083459097
1986	3	0.083467937
1987	3	0.083476776
1988	3	0.083485615
1989	3	0.083494454
1990	3	0.083503293
1991	3	0.083512131
1992	3	0.083520969
1993	3	0.083529807
1994	3	0.083538644
1995	3	0.083547482
1996	3	0.083556318
1997	3	0.083565155
1998	3	0.083573991
1999	3	0.083582827
2000	3	0.083591663
2001	3	0.083600498
2002	3	0.083609333
2003	3	0.083618168
2004	3	0.083627003

	AY	AZ
20	LP CP Iterpolation	
21	Cp	
22	Match	BTU/lb-F
2005	3	0.083635837
2006	3	0.083644671
2007	3	0.083653504
2008	3	0.083662338
2009	3	0.08367117
2010	3	0.083680003
2011	3	0.083688835
2012	3	0.083697667
2013	3	0.083706499
2014	3	0.083715331
2015	3	0.083724162
2016	3	0.083732992
2017	3	0.083741823
2018	3	0.083750653
2019	3	0.083759483
2020	3	0.083768312
2021	3	0.083777141
2022	3	0.08378597
2023	3	0.083794799
2024	3	0.083803627

**Heat-up Time Calculation 9.5 months after Shutdown,
 95F Initial Temperature, PaR SFP Rack**

Decay Heat (9.5 months)	1.195E+04 W/MTU	
Decay Heat	7604.24 BTU/Hr/Assembly	
Mass UO2	463.54 lbm	
Mass Clad	94.03 lbm	
Mass Upper Plenum	9.5 lbm	
Mass Lower Plenum	17.45 lbm	
Mass Channel Box	45.2 lbm	
Mass Rack	22.80 lbm	
Upper Plenum Length	1.562 ft	
Lower Plenum Length	0.620 ft	
UP/Fuel Surface Area	0.0160 ft^2	
LP/Fuel Surface Area	0.0188 ft^2	
Stefan-Boltzman	1.71E-09 BTU/hr-ft^2-R^4	
Emmissivity	0.4	
Radiation Surface Area	22.0125 ft^2	
Starting Temp	95 F	308.15 K
10 hour temp	1643.58 F	895.32 C
Rack Melt Time	6.04 hr	833.00 K

Elapsed Time Hr	Time Step Hr	Fuel Temp F	Upper Plenum Temp F	Lower Plenum Temp F	Channel Box Temp F	Rack Temp F
0	0.005	95	95	95	95	95
0.005	0.005	96.16	95.00	95.00	95.00	95.00
0.01	0.005	97.31	95.00	95.00	95.02	95.00
0.015	0.005	98.46	95.00	95.00	95.06	95.00
0.02	0.005	99.61	95.00	95.01	95.12	95.00
0.025	0.005	100.75	95.01	95.01	95.19	95.00
0.03	0.005	101.90	95.01	95.02	95.28	95.00
0.035	0.005	103.03	95.01	95.02	95.39	95.01
0.04	0.005	104.17	95.02	95.03	95.52	95.01
0.045	0.005	105.31	95.02	95.04	95.66	95.02
0.05	0.005	106.44	95.03	95.05	95.81	95.02
0.055	0.005	107.56	95.04	95.06	95.99	95.03
0.06	0.005	108.69	95.04	95.07	96.17	95.04
0.065	0.005	109.81	95.05	95.08	96.37	95.05
0.07	0.005	110.94	95.06	95.10	96.59	95.06
0.075	0.005	112.05	95.07	95.11	96.81	95.08
0.08	0.005	113.17	95.08	95.13	97.06	95.10
0.085	0.005	114.28	95.09	95.15	97.31	95.11
0.09	0.005	115.39	95.10	95.17	97.58	95.14
0.095	0.005	116.50	95.11	95.18	97.85	95.16

Heat-up Time Calculation 9.5 months after Shutdown,
90F Initial Temperature, PaR SFP Rack

Decay Heat (9.5 months)	1.195E+04 W/MTU	
Decay Heat	7604.24 BTU/Hr/Assembly	
Mass UO2	463.54 lbm	
Mass Clad	94.03 lbm	
Mass Upper Plenum	9.5 lbm	
Mass Lower Plenum	17.45 lbm	
Mass Channel Box	45.2 lbm	
Mass Rack	22.80 lbm	
Upper Plenum Length	1.562 ft	
Lower Plenum Length	0.620 ft	
UP/Fuel Surface Area	0.0160 ft^2	
LP/Fuel Surface Area	0.0188 ft^2	
Stefan-Boltzman	1.71E-09 BTU/hr-ft^2-R^4	
Emmissivity	0.4	
Radiation Surface Area	22.0125 ft^2	
Starting Temp	90 F	305.3722 K
10 hour temp	1640.13 F	893.41 C
Rack Melt Time	6.07 hr	833.00 K

Elapsed Time Hr	Time Step Hr	Fuel Temp F	Upper Plenum Temp F	Lower Plenum Temp F	Channel Box Temp F	Rack Temp F
	0	0.005	90	90	90	90
	0.005	0.005	91.16	90.00	90.00	90.00
	0.01	0.005	92.32	90.00	90.00	90.00
	0.015	0.005	93.47	90.00	90.00	90.00
	0.02	0.005	94.63	90.00	90.01	90.00
	0.025	0.005	95.78	90.01	90.01	90.00
	0.03	0.005	96.92	90.01	90.02	90.00
	0.035	0.005	98.07	90.01	90.02	90.01
	0.04	0.005	99.21	90.02	90.03	90.01
	0.045	0.005	100.35	90.02	90.04	90.01
	0.05	0.005	101.48	90.03	90.05	90.02
	0.055	0.005	102.62	90.04	90.06	90.03
	0.06	0.005	103.75	90.04	90.07	90.04
	0.065	0.005	104.88	90.05	90.08	90.05
	0.07	0.005	106.00	90.06	90.10	90.06
	0.075	0.005	107.12	90.07	90.11	90.07
	0.08	0.005	108.24	90.08	90.13	90.09
	0.085	0.005	109.36	90.09	90.15	90.11
	0.09	0.005	110.48	90.10	90.17	90.13
	0.095	0.005	111.59	90.12	90.18	90.15

**Heat-up Time Calculation 9.5 months after Shutdown,
 85F Initial Temperature, PaR SFP Rack**

Decay Heat (9.5 months)	1.195E+04 W/MTU	
Decay Heat	7604.24 BTU/Hr/Assembly	
Mass UO2	463.54 lbm	
Mass Clad	94.03 lbm	
Mass Upper Plenum	9.5 lbm	
Mass Lower Plenum	17.45 lbm	
Mass Channel Box	45.2 lbm	
Mass Rack	22.80 lbm	
Upper Plenum Length	1.562 ft	
Lower Plenum Length	0.620 ft	
UP/Fuel Surface Area	0.0160 ft^2	
LP/Fuel Surface Area	0.0188 ft^2	
Stefan-Boltzman	1.71E-09 BTU/hr-ft^2-R^4	
Emmissivity	0.4	
Radiation Surface Area	22.0125 ft^2	
Starting Temp	85 F	302.5944 K
10 hour temp	1636.76 F	891.53 C
Rack Melt Time	6.10 hr	833.00 K

Elapsed Time Hr	Time Step Hr	Fuel Temp F	Upper	Lower	Channel Box Temp F	Rack Temp F
			Plenum Temp F	Plenum Temp F		
	0	0.005	85	85	85	85
	0.005	0.005	86.17	85.00	85.00	85.00
	0.01	0.005	87.33	85.00	85.00	85.00
	0.015	0.005	88.49	85.00	85.00	85.00
	0.02	0.005	89.65	85.00	85.01	85.00
	0.025	0.005	90.80	85.01	85.01	85.00
	0.03	0.005	91.95	85.01	85.02	85.00
	0.035	0.005	93.10	85.01	85.02	85.01
	0.04	0.005	94.25	85.02	85.03	85.01
	0.045	0.005	95.39	85.02	85.04	85.01
	0.05	0.005	96.53	85.03	85.05	85.02
	0.055	0.005	97.67	85.04	85.06	85.03
	0.06	0.005	98.80	85.04	85.07	85.04
	0.065	0.005	99.94	85.05	85.09	85.05
	0.07	0.005	101.07	85.06	85.10	85.06
	0.075	0.005	102.20	85.07	85.11	85.07
	0.08	0.005	103.32	85.08	85.13	85.09
	0.085	0.005	104.44	85.09	85.15	85.10
	0.09	0.005	105.56	85.10	85.17	85.12
	0.095	0.005	106.68	85.12	85.19	85.15

**Heat-up Time Calculation 8.75 months after Shutdown,
 95F Initial Temperature, Holtec SFP Rack**

Decay Heat (8.75 months)	1.260E+04 W/MTU	
Decay Heat	8017.86 BTU/Hr/Assembly	
Mass UO2	463.54 lbm	
Mass Clad	94.03 lbm	
Mass Upper Plenum	9.5 lbm	
Mass Lower Plenum	17.45 lbm	
Mass Channel Box	45.2 lbm	
Mass Rack	41.11 lbm	
Upper Plenum Length	1.562 ft	
Lower Plenum Length	0.620 ft	
UP/Fuel Surface Area	0.0160 ft ²	
LP/Fuel Surface Area	0.0188 ft ²	
Stefan-Boltzman	1.71E-09 BTU/hr-ft ² -R ⁴	
Emmissivity	0.4	
Radiation Surface Area	22.0125 ft ²	
Starting Temp	95 F	308.15 K
10 hour temp	1649.73 F	898.74 C

Elapsed Time Hr	Time Step Hr	Fuel Temp F	Upper Plenum Temp F	Lower Plenum Temp F	Channel Box Temp F	Rack Temp F	
	0	0.005	95	95	95	95	
	0.005	0.005	96.22	95.00	95.00	95.00	
	0.01	0.005	97.44	95.00	95.00	95.00	
	0.015	0.005	98.65	95.00	95.00	95.00	
	0.02	0.005	99.86	95.00	95.01	95.00	
	0.025	0.005	101.07	95.01	95.01	95.00	
	0.03	0.005	102.27	95.01	95.02	95.00	
	0.035	0.005	103.47	95.02	95.02	95.01	
	0.04	0.005	104.67	95.02	95.03	95.01	
	0.045	0.005	105.86	95.03	95.04	95.02	
	0.05	0.005	107.06	95.03	95.05	95.03	
	0.055	0.005	108.25	95.04	95.06	96.04	95.03
	0.06	0.005	109.43	95.05	95.08	96.24	95.05
	0.065	0.005	110.62	95.06	95.09	96.45	95.06
	0.07	0.005	111.80	95.06	95.10	96.68	95.07
	0.075	0.005	112.97	95.07	95.12	96.92	95.09
	0.08	0.005	114.15	95.09	95.14	97.17	95.11
	0.085	0.005	115.32	95.10	95.15	97.44	95.13
	0.09	0.005	116.49	95.11	95.17	97.72	95.16
	0.095	0.005	117.66	95.12	95.19	98.01	95.19

**Heat-up Time Calculation 8.75 months after Shutdown,
 90F Initial Temperature, Holtec SFP Rack**

Decay Heat (8.75 months)	1.260E+04 W/MTU	
Decay Heat	8017.86 BTU/Hr/Assembly	
Mass UO2	463.54 lbm	
Mass Clad	94.03 lbm	
Mass Upper Plenum	9.5 lbm	
Mass Lower Plenum	17.45 lbm	
Mass Channel Box	45.2 lbm	
Mass Rack	41.11 lbm	
Upper Plenum Length	1.562 ft	
Lower Plenum Length	0.620 ft	
UP/Fuel Surface Area	0.0160 ft ²	
LP/Fuel Surface Area	0.0188 ft ²	
Stefan-Boltzman	1.71E-09 BTU/hr-ft ² -R ⁴	
Emmissivity	0.4	
Radiation Surface Area	22.0125 ft ²	
Starting Temp	90 F	305.3722 K
10 hour temp	1646.67 F	897.04 C

Elapsed Time Hr	Time Step Hr	Fuel Temp F	Upper Plenum Temp F	Lower Plenum Temp F	Channel Box Temp F	Rack Temp F
	0	0.005	90	90	90	90
	0.005	0.005	91.22	90.00	90.00	90.00
	0.01	0.005	92.45	90.00	90.00	90.00
	0.015	0.005	93.66	90.00	90.00	90.00
	0.02	0.005	94.88	90.00	90.01	90.00
	0.025	0.005	96.09	90.01	90.01	90.00
	0.03	0.005	97.30	90.01	90.02	90.00
	0.035	0.005	98.50	90.02	90.02	90.01
	0.04	0.005	99.71	90.02	90.03	90.01
	0.045	0.005	100.91	90.03	90.04	90.02
	0.05	0.005	102.10	90.03	90.05	90.02
	0.055	0.005	103.30	90.04	90.06	90.03
	0.06	0.005	104.49	90.05	90.08	90.04
	0.065	0.005	105.68	90.06	90.09	90.06
	0.07	0.005	106.87	90.06	90.10	90.07
	0.075	0.005	108.05	90.07	90.12	90.09
	0.08	0.005	109.23	90.09	90.14	90.11
	0.085	0.005	110.41	90.10	90.16	90.13
	0.09	0.005	111.58	90.11	90.17	90.15
	0.095	0.005	112.75	90.12	90.19	90.18

**Heat-up Time Calculation 8.75 months after Shutdown,
 85F Initial Temperature, Holtec SFP Rack**

Decay Heat (8.75 months)	1.260E+04 W/MTU	
Decay Heat	8017.86 BTU/Hr/Assembly	
Mass UO2	463.54 lbm	
Mass Clad	94.03 lbm	
Mass Upper Plenum	9.5 lbm	
Mass Lower Plenum	17.45 lbm	
Mass Channel Box	45.2 lbm	
Mass Rack	41.11 lbm	
Upper Plenum Length	1.562 ft	
Lower Plenum Length	0.620 ft	
UP/Fuel Surface Area	0.0160 ft ²	
LP/Fuel Surface Area	0.0188 ft ²	
Stefan-Boltzman	1.71E-09 BTU/hr-ft ² -R ⁴	
Emmissivity	0.4	
Radiation Surface Area	22.0125 ft ²	
Starting Temp	85 F	302.5944 K
10 hour temp	1643.63 F	895.35 C

Elapsed Time Hr	Time Step Hr	Fuel Temp F	Upper Plenum Temp F	Lower Plenum Temp F	Channel Box Temp F	Rack Temp F
0	0.005	85	85	85	85	85
0.005	0.005	86.23	85.00	85.00	85.00	85.00
0.01	0.005	87.46	85.00	85.00	85.02	85.00
0.015	0.005	88.68	85.00	85.00	85.06	85.00
0.02	0.005	89.90	85.00	85.01	85.12	85.00
0.025	0.005	91.12	85.01	85.01	85.19	85.00
0.03	0.005	92.33	85.01	85.02	85.29	85.00
0.035	0.005	93.54	85.02	85.02	85.40	85.01
0.04	0.005	94.75	85.02	85.03	85.52	85.01
0.045	0.005	95.95	85.03	85.04	85.67	85.02
0.05	0.005	97.16	85.03	85.05	85.83	85.02
0.055	0.005	98.35	85.04	85.06	86.00	85.03
0.06	0.005	99.55	85.05	85.08	86.19	85.04
0.065	0.005	100.74	85.06	85.09	86.40	85.05
0.07	0.005	101.94	85.07	85.10	86.62	85.07
0.075	0.005	103.12	85.08	85.12	86.85	85.08
0.08	0.005	104.31	85.09	85.14	87.10	85.10
0.085	0.005	105.49	85.10	85.16	87.36	85.12
0.09	0.005	106.67	85.11	85.18	87.63	85.15
0.095	0.005	107.85	85.12	85.20	87.92	85.17

**Heat-up Time Calculation 9.5 months after Shutdown,
120F Initial Temperature, PaR SFP Rack
(View Factor and Emissivity Sensitivity)**

Attachment 14

Decay Heat (9.75 months)	1.175E+04 W/MTU	
Decay Heat	7476.97 BTU/Hr/Assembly	
Mass UO2	463.54 lbm	
Mass Clad	94.03 lbm	
Mass Upper Plenum	9.5 lbm	
Mass Lower Plenum	17.45 lbm	
Mass Channel Box	45.2 lbm	
Mass Rack	22.80 lbm	
Upper Plenum Length	1.562 ft	
Lower Plenum Length	0.620 ft	
UP/Fuel Surface Area	0.0160 ft^2	
LP/Fuel Surface Area	0.0188 ft^2	
Stefan-Boltzman	1.71E-09 BTU/hr-ft^2-R^4	
Emissivity	0.32	
Radiation Surface Area	22.0125 ft^2	
Starting Temp	120 F	322.0389 K
10 hour temp	1640.03 F	893.35 C
Rack Melt Time	6.02 hr	833.00 K

Elapsed Time Hr	Time Step Hr	Fuel Temp F	Upper	Lower	Channel Box Temp F	Rack Temp F
			Plenum Temp F	Plenum Temp F		
	0	0.005	120	120	120	120
	0.005	0.005	121.12	120.00	120.00	120.00
	0.01	0.005	122.23	120.00	120.00	120.00
	0.015	0.005	123.34	120.00	120.00	120.00
	0.02	0.005	124.45	120.00	120.01	120.10
	0.025	0.005	125.55	120.01	120.01	120.17
	0.03	0.005	126.66	120.01	120.02	120.25
	0.035	0.005	127.76	120.01	120.02	120.34
	0.04	0.005	128.86	120.02	120.03	120.45
	0.045	0.005	129.95	120.02	120.04	120.58
	0.05	0.005	131.05	120.03	120.05	120.72
	0.055	0.005	132.14	120.04	120.06	120.87
	0.06	0.005	133.23	120.04	120.07	121.03
	0.065	0.005	134.32	120.05	120.08	121.21
	0.07	0.005	135.40	120.06	120.10	121.40
	0.075	0.005	136.48	120.07	120.11	121.60
	0.08	0.005	137.56	120.08	120.13	121.82
	0.085	0.005	138.64	120.09	120.14	122.04
	0.09	0.005	139.72	120.10	120.16	122.28
	0.095	0.005	140.79	120.11	120.18	122.53

**Heat-up Time Calculation 9.5 months after Shutdown,
120F Initial Temperature, PaR SFP Rack
(Upper Plenum Mass Sensitivity)**

Attachment 15

Decay Heat (9.75 months)	1.175E+04 W/MTU	
Decay Heat	7476.97 BTU/Hr/Assembly	
Mass UO2	463.54 lbm	
Mass Clad	94.03 lbm	
Mass Upper Plenum	5.16 lbm	
Mass Lower Plenum	17.45 lbm	
Mass Channel Box	45.2 lbm	
Mass Rack	22.80 lbm	
Upper Plenum Length	1.562 ft	
Lower Plenum Length	0.620 ft	
UP/Fuel Surface Area	0.0160 ft^2	
LP/Fuel Surface Area	0.0188 ft^2	
Stefan-Boltzman	1.71E-09 BTU/hr-ft^2-R^4	
Emmissivity	0.4	
Radiation Surface Area	22.0125 ft^2	
Starting Temp	120 F	322.0389 K
10 hour temp	1641.59 F	894.22 C
Rack Melt Time	6.00 hr	833.00 K

Elapsed Time Hr	Time Step Hr	Fuel Temp		Upper	Lower	Channel	Rack
		F	F	Plenum Temp F	Plenum Temp F	Box Temp F	Temp F
	0	0.005	120	120	120	120	120
	0.005	0.005	121.12	120.00	120.00	120.00	120.00
	0.01	0.005	122.23	120.00	120.00	120.02	120.00
	0.015	0.005	123.34	120.00	120.00	120.06	120.00
	0.02	0.005	124.45	120.01	120.01	120.12	120.00
	0.025	0.005	125.55	120.01	120.01	120.21	120.00
	0.03	0.005	126.65	120.02	120.02	120.31	120.00
	0.035	0.005	127.75	120.03	120.02	120.42	120.01
	0.04	0.005	128.85	120.03	120.03	120.56	120.01
	0.045	0.005	129.94	120.04	120.04	120.71	120.02
	0.05	0.005	131.03	120.05	120.05	120.88	120.03
	0.055	0.005	132.12	120.07	120.06	121.06	120.04
	0.06	0.005	133.21	120.08	120.07	121.26	120.05
	0.065	0.005	134.29	120.09	120.08	121.47	120.06
	0.07	0.005	135.37	120.11	120.10	121.70	120.08
	0.075	0.005	136.45	120.13	120.11	121.94	120.10
	0.08	0.005	137.52	120.14	120.13	122.19	120.12
	0.085	0.005	138.60	120.16	120.14	122.46	120.14
	0.09	0.005	139.67	120.18	120.16	122.74	120.17
	0.095	0.005	140.74	120.20	120.18	123.03	120.19

NG-19-0142

Attachment 3

Duane Arnold Energy Center

CAL-R19-002

Dose at Site Exclusion Area Boundary and Main Control Room Due to Shine from Drained
Spent Fuel Pool During SAFSTOR

Rev. 0

206 pages follow

CALCULATION COVER SHEET

Document Information:

Calculation (Doc) No: CAL-R19-002	Controlled Documents Revision: 0
Title: Dose at Site Exclusion Area Boundary and Main Control Room Due to Shine from Drained Spent Fuel Pool During SAFSTOR	
Type: CALC Sub-Type: CALC Discipline: Nuclear	
Facility: DAEC	Unit: 1
Safety Class: <input type="checkbox"/> SR <input type="checkbox"/> Quality Related <input checked="" type="checkbox"/> Non-Nuclear Safety <input type="checkbox"/> Important to Safety <input type="checkbox"/> Not Important to Safety	
Special Codes: <input type="checkbox"/> Safeguards <input type="checkbox"/> Proprietary	
Vendor Doc No:	Vendor Name or Code: ENERCON
Executive Summary: This calculation evaluates the dose rate at the site exclusion area boundary and the main control room due to shine from a drained spent fuel pool during SAFSTOR. The dose rate is evaluated for various cooling times after shutdown. The cooling times evaluated are, 0.75, 0.83, 0.92, 1, 1.25, 1.5, 2, 3, and 5 years after shutdown.	

Review and Approval:

Associated EC Number: 292601 AR/ Other Document Number:	EC Revision: 0
Description of Calculation Revision: Initial Issue	EC Document Revision: 0
Prepared by: <small>Digitally signed by Andrew Rabaioli-Brosius Date: 2019.08.22 16:58:39 -0400</small> <u>Andrew Rabaioli-Brosius</u> Date: <u>8/22/19</u> (signature) (print name)	
Reviewed by: <small>Digitally signed by Dwayne Blaylock Date: 2019.08.22 16:57:51 -0400</small> <u>Dwayne Blaylock</u> Date: <u>8/22/19</u> (signature) (print name)	
Type of Review: <input type="checkbox"/> Design Verification <input checked="" type="checkbox"/> Review <input type="checkbox"/> Owner Acceptance Review	
Method Used (For DV Only): <input type="checkbox"/> Design Review <input type="checkbox"/> Alternate Calculation	
Approved by: <small>Digitally signed by Guy B. Spikes Date: 2019.08.23 09:53:15 -0400</small> <u>Guy B. Spikes</u> <u>Guy Spikes</u> Date: <u>8/23/2019</u> (signature) (print name)	

Owner Acceptance Review

(Page 1 of 3)

External Design Document Being Reviewed: CAL-R19-002

Title: Dose at Site Exclusion Area Boundary and Main Control Room Due to Shine from Drained Spent Fuel Pool During SAFSTOR

Number: CAL-R19-002

Rev: 0

Date: 8/23/19

This design document was received from:

Organization Name: Enercon

PO or DIA Reference: -2324944, Release 42

The purpose of the suitability review is to ensure that a calculation, analysis, modification, or other design document provided by an External Design Organization complies with the conditions of the purchase order and/or Design Interface Agreement (DIA) and is appropriate for its intended use. The owner acceptance review does not serve as an independent verification. Independent verification of the design document supplied by the External Design Organization should be evident in the document, if required.

The reviewer should use the criteria below as a guide to assess the overall quality, completeness and usefulness of the design document. The reviewer is not required to check calculations in detail.

For any items determined unsatisfactory, comments are to be provided to the External Design Organization, detailing actions necessary to resolve the issue.

Risk (per EN-AA-212-1000/EN-AA-213-1000): Low Medium High

Complete Items 1 through 29 for All Risk Items

Yes N/A

- | | | |
|--|-------------------------------------|-------------------------------------|
| 1. Design inputs correspond to those that were transmitted to the External Design Organization. Additional design inputs are adequately identified and documented. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Design output documents are prepared in accordance with applicable procedures. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Assumptions and engineering judgments are documented, described and reasonable. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Unverified assumptions have a tracking and closure mechanism in place | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Applicable codes, standards and regulations are identified and meet plant design and license bases. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Applicable structure(s), system(s), and component(s) are listed. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Formulae and equations are documented. Unusual symbols are defined. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Computer programs are validated under the appropriate QA program. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Acceptance criteria are identified, adequate and satisfied. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. The product outputs, recommendations, results, and conclusions, are reasonable compared to the inputs and assumptions. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11. Source documents are referenced. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 12. The impacts on plant drawings, procedures, databases, and plant simulator have been addressed. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Owner Acceptance Review

(Page 2 of 3)

	Yes	N/A
13. Maintenance features such as equipment location, accessibility and in-service inspection have been considered and appropriate maintenance requirements are specified.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. Applicable construction and operating experience is considered and incorporated, including a review of equipment failure rates, maintenance and installation requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Installation and constructability issues have been adequately considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Inputs, assumptions, outputs, etc. which could affect plant operation are enforced by adequate procedural controls. List any new or affected procedures.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17. Requirements for testing have been specified including modification acceptance testing, factory acceptance testing, site acceptance testing, construction testing, periodic post mod testing, and ASME code required In-service Testing.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18. Engineering documentation reflects the current field condition (especially in the electrical area) or has specific actions to verify prior to implementation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. The document is appropriate for its intended use.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. The document complies with the terms of the Purchase Order and/or DIA.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21. Appropriate interdisciplinary, interdepartmental and third party reviews were performed and impacts resolved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Affected supporting calculations have been revised and approved.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23. For revisions, supplements or superseding documents, inputs and assumptions in the original document are still applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
24. Applicable operating conditions, environmental conditions, and system interactions are addressed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25. Commitments, program requirements, or other issues affecting the design, have been adequately addressed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26. All required follow-up actions requiring resolution have a closure tracking mechanism in place.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27. Margin impacts identified, acceptable and understood.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28. Obsolete material/spare parts/inventory changes addressed as applicable.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29. Has the engineering contractor performed a line by line review of any applicable specifications, and documented/ addressed the results in the EC.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Owner Acceptance Review

(Page 3 of 3)

Steps 30 through 40 are to be completed for High Risk items


Yes N/A


- | | | | |
|-----|--|-------------------------------------|-------------------------------------|
| 30. | RE has contacted other utilities that have performed similar modifications and ensure issues/lessons learned are addressed. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 31. | RE independently verified the trip logic and set points of any new or revised protective feature. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 32. | If the modification involves engineered material, validate the division of responsibility for engineering, design verification, and review between the vendor and the engineering contractor is documented in writing. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 33. | A matrix which outlines critical characteristics, acceptance criteria, and method of testing (FAT, SAT, PMT), and consequence of failure has been developed and reviewed to be correct. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 34. | Engineering Contractor internal design review board notes have been reviewed and required actions completed. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 35. | Verify risk and mitigating actions identified in accordance with EN-AA-212-1000 and EN-AA-213-1000 have been addressed. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 36. | For digital modifications, any "black box" design feature and reviews have been thoroughly vetted and reviewed by the Fleet Subject Matter Expert. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 37. | RE has done a line by line review of any specifications and validated that they are addressed in the engineering package. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 38. | RE has verified the key design inputs are correct. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 39. | RE has verified all safety related and control circuits are correct in accordance with EN-AA-100-1002, Design Verification. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40. | RE has performed a thorough review of the Failure Modes and Effects Analysis. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Additional Aspects for Review:

- | | |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

Completed by:





Date:

8/27/2019
8-26-19

Nuclear
Fuels
Design
Engineering

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ATTACHMENTS

<u>Attachment Title</u>	<u>Number of Pages</u>
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Attachment 2 - MCNP5 Inputs	39
Attachment 3 - Line Beam Response Methods Journal Paper Excerpts	18
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1.0 Purpose and Objective

The purpose of this calculation is to evaluate the dose rate at the site exclusion area boundary (EAB) and the main control room (MCR) following a complete loss of spent fuel pool (SFP) water inventory while in safe storage (SAFSTOR). Curves of dose rate as a function of time after shutdown will be generated for both locations to be used as input to the Emergency Planning (EP) exemption submittal while in SAFSTOR per Interim Staff Guidance (ISG) 02 “Emergency Planning Exemption Requests for Decommissioning Nuclear Power Plants”. ISG-02 states that site-specific analyses demonstrate that an offsite radiological release is not postulated to exceed the EPA Protective Action Guides (PAGs) at the site boundary. The EPA PAG limit to start evacuation of the public is 1 rem (Reference 3.1). There is no acceptance criterion for the MCR in ISG-02 (Reference 3.2), instead, reasonableness is used as a criterion for the dose rate at the MCR.

NUREG-0586 Supplement 1, Section 4.3.9, identifies that a spent fuel pool drain down event is beyond design basis (Reference 3.3). This calculation is non-safety related as it is beyond design basis in support of SAFSTOR.

“Radiological accidents considered in licensing nuclear power plants are classified as design basis accidents (DBAs) and severe (beyond design basis) accidents. DBAs are those accidents that both the licensee and the NRC staff evaluate to ensure that the plant can withstand normal and abnormal transients and a broad spectrum of postulated accidents without undue hazard to the health and safety of the public. Severe accidents are those that are beyond the design basis of the plant. They are more severe than DBAs because they may result in substantial damage to the fuel, whether or not there are serious offsite consequences. For the most part, DBAs focus on reactor operation and are not applicable to plants undergoing decommissioning. The only DBAs or severe accidents (beyond design basis) applicable to a decommissioning plant are those involving the spent fuel pool. These postulated accidents are not expected to occur during the life of the plant, but are evaluated to establish the design basis for the preventive and mitigative safety systems of the spent fuel storage facility.”

Additionally, this calculation determines the decay heat as a function of time for the fuel in the spent fuel pool. This can be used in a separate analysis to support additional cladding temperature requirements for the EP exemption submittal per ISG-02 (Reference 3.2).

2.0 Summary of Results and Conclusions

The beyond design basis drained down SFP dose rate to the main control room and exclusion area boundary during SAFSTOR are shown in Table 2-1, Figure 2-1, and Figure 2-2. These results will be utilized in the EP exemption request for SAFSTOR. This calculation is applicable for a final shutdown of November 30, 2020.

A loss of water shielding above the fuel could increase the offsite radiation levels, because of the gamma rays streaming up out of the pool being scattered back to a receptor at the site boundary. The offsite radiological impact of a postulated complete loss of SFP water was assessed. It was determined that the gamma radiation dose rate at the EAB would be less than the EPA PAG exposure levels. The PAGs were developed to respond to a mobile airborne plume that could transport and deposit radioactive material over a large area. In contrast, the radiation field formed by scatter from a drained SFP would be stationary rather than moving and would not cause transport or deposition of radioactive materials. The extended period required to exceed the integrated PAG limit of 1 rem TEDE would allow sufficient time to develop and implement onsite mitigative actions and provide confidence that additional offsite measures could be taken without planning if efforts to reestablish shielding over the fuel are

delayed. For example, after approximately 9 months (0.75 years) of decay time, the time to exceed the PAG limit of 1 rem TEDE at the EAB following a SFP drain down is approximately 198 days, or about 6.5 months. This value can be compared to the 10 hour time limit for zirconium ignition in ISG-02 (Reference 3.2), mitigative actions will have been taken far in advanced of exceeding 1 rem TEDE at the EAB.

The dose rate to the Control Room was determined to be <0.03 mrem/hr. While there is no acceptance criteria for the Control Room in ISG-02 (Reference 3.2), the dose rate values are considered reasonably low.

The decay heat source term results were also calculated and are presented in Attachment 6.

Table 2-1 Drain Down Shine to MCR and EAB Dose Results

Boundary	Decay Time (years)	Dose Rate (mrem/hr)	Time to 1 rem at the EAB (months)
Exclusion Area Boundary	0.75	0.21	6.5
	0.83	0.19	7.2
	0.92	0.18	7.6
	1	0.17	8.1
	1.25	0.15	9.1
	1.5	0.14	9.8
	2	0.12	11.4
	3	0.10	13.7
Main Control Room	5	0.08	17.1
	0.75	0.027	-
	0.83	0.025	-
	0.92	0.023	-
	1	0.022	-
	1.25	0.020	-
	1.5	0.018	-
	2	0.016	-
3	0.013	-	
5	0.011	-	

Figure 2-1 SFP Drain Down Dose Rate at the EAB in Years After Shutdown

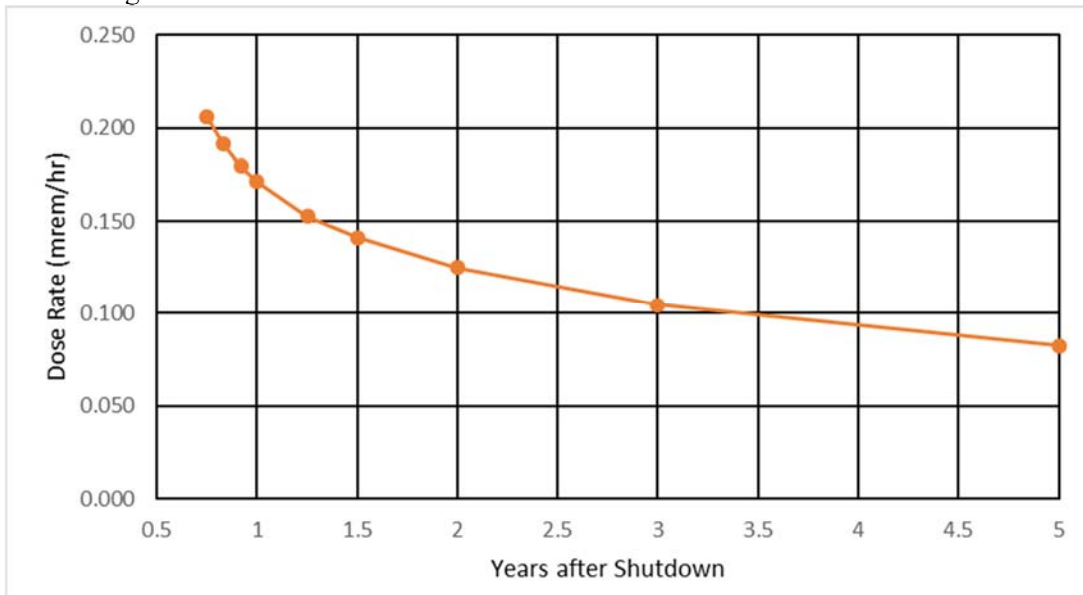
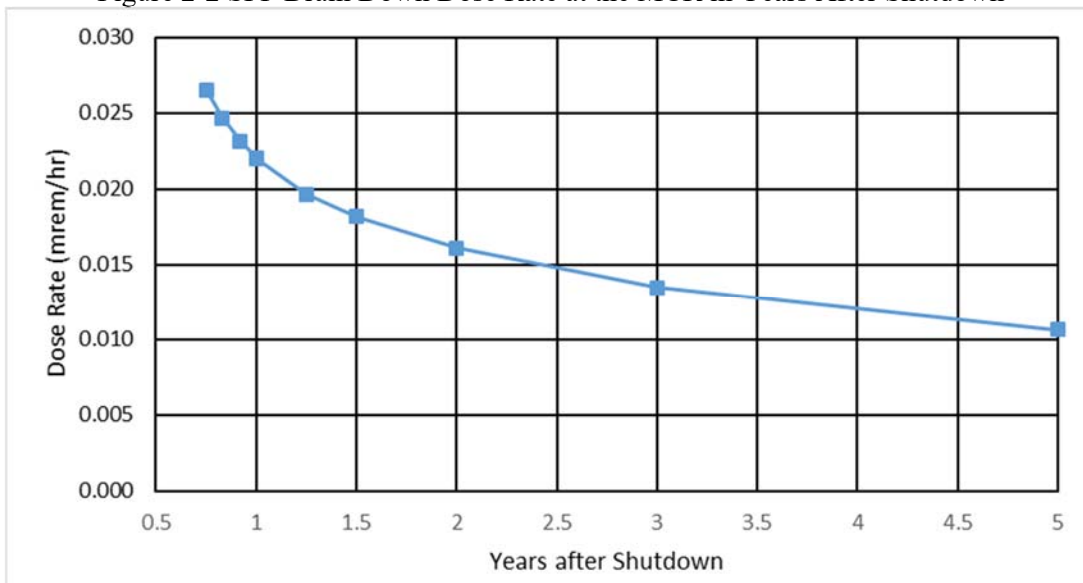


Figure 2-2 SFP Drain Down Dose Rate at the MCR in Years After Shutdown



3.0 References

- 3.1 EPA-400-R-92-001, "EPA Manual of Protective Action Guides and Protective Actions for Nuclear Incidents", May 1992
- 3.2 NSIR/DPR-ISG-02, "Emergency Planning Exemption Requests for Decommissioning Nuclear Power Plants", May 11, 2015 (ADAMS Accession Number ML14106A057)
- 3.3 NUREG-0586, "Generic Environmental Impact Statement on Decommissioning of Nuclear Facilities", Supplement 1, Volume 1, November 2002
- 3.4 J. Lamarsh and A. Baratta, "Introduction to Nuclear Engineering", Third Edition, 2001
- 3.5 Email from Steve Huebsch (NextEra) to Matt Wilkinson (ENERCON), DIT 2 for GE Information, 7/25/2019 (Attachment 8) and Attached DIT with Fuel Assembly Inputs (Attachment 7)

- 3.6 Email from Steve Huebsch (NextEra) to Brian Froese (ENERCON), DIT 1, 7/22/2019 (Attachment 5) and Attached DIT with Fuel Data (Attachment 4)
- 3.7 ORNL/TM-2005/39, "SCALE6.1 User's Manual", June 2011
- 3.8 DAEC FSAR, Revision 25, March 2019
- 3.9 Drawing M453-004, Revision 1, "Support Detail for Spent Fuel Storage Racks"
- 3.10 Drawing M453-002, Revision 1, "Rack Construction Spent Fuel Storage Racks"
- 3.11 Drawing BECH-C430, Revision 10, "Reactor Building Floor Plan at Elevation 855 ft. 0 in. Sheet 2"
- 3.12 Drawing BECH-C493, Revision 7, "Reactor Building Spent Fuel Pool Liner Plan Elevations and Details SH-1"
- 3.13 Drawing BECH-C492, Revision 6, "Reactor Building Reactor Well, Spent Fuel & Dryer Separator Pool General Arrangement"
- 3.14 Drawing BECH-M001, Revision 43, "Equipment Location Plans at Elevation 716'-9" & 734'-0"
- 3.15 Drawing BECH-M003, Revision 58, "Equipment Location Plans at Elevation 780 ft. 0 in., 786 ft. 0 in., 773 ft. 6 in."
- 3.16 Drawing BECH-C101, Revision 49, "Site Plan"
- 3.17 ORNL/TM-2010/43, "OrigenArp Primer: How to Perform Isotopic Depletion and Decay Calculations with SCALE/ORIGEN", April 2010
- 3.18 Chilton, A.B.; Shultis, J.K., Faw, R.E., "Principals of Radiation Shielding." Prentice-Hall, Inc. 1984. (Attachment 9)
- 3.19 SAND94-2019, "Extensions to the Integral Line-Beam Method for Gamma-Ray Skyshine Analyses", August 1995 (Attachment 3)
- 3.20 Stabin, Michael G., "Radiation Protection and Dosimetry: An Introduction to Health Physics", Edition 1, https://books.google.com/books?id=tXhmo5H_HfIC&pg=PA73&lpg=PA73&dq=is+rad+in+air+the+same+as+rad+in#v=onepage&q=is%20rad%20in%20air%20the%20same%20as%20rad%20in&f=false, accessed 8/5/2019
- 3.21 ORNL/TM-11018, "Standard- and Extended-Burnup PWR and BWR Reactor Models for the ORIGEN2 Computer Code", December 1989
- 3.22 USNRC Power Reactor Status Reports for 2014, May 2015, <https://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2014/>, accessed 7/25/2019
- 3.23 LA-UR-03-1987, "MCNP5 User's Manual", Version 5, April 24, 2003 (Revised 2/1/2008)
- 3.24 DAEC Technical Specifications, Amendment 243

4.0 Assumptions

- 4.1 Only the fuel gamma source term is considered in the standard 18-group photon distribution. The neutron source strength is more than five orders of magnitude smaller compared to the fuel gamma source. Omitting neutron sources is bounded by other conservatisms such as assuming 1 MeV photons for the line beam response method (Assumption 4.4).
- 4.2 Source terms are developed in ORIGEN-S using continuous burn until the desired level of burnup is reached. Down time between cycles is not included. This is a conservative assumption that addresses any concerns about the effect of down time between cycles on the source terms. Down time between cycles would provide time for decay of isotopes, which would decrease the intensity of the output source term from the reactor before the cool down time frame.
- 4.3 For photons, the kerma dose rate (rads/hr) is equal to the equivalent dose rate (rem/hr). The equivalent dose rate (rem/hr) is the product of the absorbed dose rate and the radiation weighting factor. The radiation weighting factor for photons is 1.0 (Reference 3.4).
- 4.4 All photons are assumed to be 1 MeV in the line beam response method dose equations and for determining the shielding provided by walls around the control building. This is conservative because the photon energy distributions in Table 7-5 through Table 7-10 have the most intensity below 1 MeV. For instance, greater than 98% of photons are below 1 MeV for the 0.75-year decay source in Table 7-5.
- 4.5 Standard density concrete will be analyzed for the shielding benefit of the walls around the control room. This is a reasonable assumption because most construction is with standard normal density concrete, as opposed to high density concrete.
- 4.6 An additional 3 feet will be added to the elevation of the control room floor and plant grade, when determining doses. The additional 3 feet represents a chest height measurement for plant personnel and members of the public.
- 4.7 The channel box for each fuel assembly is not credited in the shielding calculation. Omission of material is conservative for shielding purposes.
- 4.8 The reactor building roof and intermediate walls and floors are not credited to provide shielding. Not crediting the reactor building roof or intermediate walls and floors conservatively reduces the shielding.
- 4.9 Gadolinium (Gd) in the assembly fuel pins is not modeled. Gadolinium is a neutron poison. It is conservative not to model a neutron poison in a shielding calculation.
- 4.10 The MCNP5 model only includes full length rods. The fourteen (Reference 3.5) partial length rods are modeled as full length. Similarly, chamfers on the fuel pellets are not modeled. This has negligible impact for shielding analysis for flux measurements above uncovered fuel.
- 4.11 Average assembly source terms are used in this calculation (i.e. no axial profile is considered). This produces a larger source term at the top of the assemblies which creates a more conservative flux above the SFP.
- 4.12 Since all Cycle 27 assemblies and the last eight reloads are 10×10 arrays (Attachment 4), the GE 10x10 assembly is used as the fuel type for all ORIGEN-ARP models. The fuel in

10x10 arrays is the most impactful to results, fuel cooled for at least 10 years (starting in 2020) is also modelled as 10x10 arrays for simplicity. Note, there is no differentiation in ORIGEN-ARP between GE 10x10 and GNF2 10x10 fuel. Some of the Cycle 27 assemblies are GNF2.02 fuel, which is modeled as GNF2 fuel for simplicity. GNF2.02 fuel uses an improved debris filter, which does not affect the flux above the SFP.

- 4.13 No assemblies will be loaded into the 152 element rack in the Cask Pit (Reference 3.8, Section 9.1.2.2) and the Cask Pit is not included in the model.

5.0 Inputs

- 5.1 Characteristics of the discharged spent fuel currently in the SFP through the expected Cycle 27 discharge at the end of November 2020 were transmitted from Reference 3.6 (Attachment 5) and presented in Attachment 4. As noted in Attachment 4, the projected SFP inventory after the planned 2020 ISFSI campaign was provided. These parameters include assembly IDs, initial enrichment, discharge date, average burnup, and initial mass of uranium.
- 5.2 The rated thermal power is 1912 MWt (Reference 3.24).
- 5.3 There are 368 assemblies in the core (Reference 3.6).
- 5.4 The reactor parameters and fuel geometry of the GNF2 10×10 fuel used in Cycle 27 are included in Table 5-1, based on the DIT (Reference 3.5) as well as ORIGEN-ARP manual (Reference 3.7). GNF2 10×10 fuel is utilized because it has been used in the last eight reloads as well as the current Cycle 27.

Table 5-1 Fuel Assembly Geometry (References 3.5 and 3.7)

Characteristic	Unit	Value
Seating Surface to Bottom of Fuel Rods*	in	7.436
Number of Water Rods	#	2
Water Rod Outer Diameter	in	0.980
Water Rod Thickness	in	0.030
Total Upper Hardware Mass for the Upper Plenum	lbs	9.5
Number of Fuel Rods per Assembly (full and partial)	#	92
Fuel Rod Pitch	in	0.510
Fuel Rod Outer Diameter	in	0.404
Fuel Clad Thickness	in	0.0236
Clad/Water Rod Material (Zirc-2, Zirc-4, etc.)	-	Zirc-2
Active Fuel Length	in	150.00
Pellet Material	-	UO ₂
Pellet Diameter	in	0.3496
Assembly Height	in	176.18

*Note: This value includes the assembly nozzle, which is partially below the rack bottom when the assembly is inserted into the rack. Including this extra height raises the fuel closer to the surface of the pool and is conservative in calculating the flux above the SFP.

- 5.5 The end of Cycle 27 fuel discharge date is November 30, 2020 (Reference 3.6).
- 5.6 The SFP contains 2 rack models, Programmed and Remote (PaR) and Holtec (Reference 3.8, Section 9.1.2). Holtec racks are used in the model as they are newer, and their dimensions are more readily available. Additionally, there are more Holtec cells than PaR cells, 1250 cells compared to 1161 cells. Table 5-2 shows the rack parameters. Use of Holtec racks is conservative because Holtec racks are thinner than PaR racks, providing less shielding. PaR racks are 0.125 inches thick (Reference 3.8, Section 9.1.2.3.1.3).

Table 5-2 SFP Racks Model Parameters

Dimension	Value	Reference
Rack Bottom Height (in)	11.5	3.9
Fuel Rack Height (in)	169	3.10
Rack Cell Pitch (in)	6.06	3.10
Rack Thickness (in)	0.06	3.10
Rack Material	SS304	3.10

- 5.7 The spent fuel pool geometry is summarized in Table 5-3.

Table 5-3 Spent Fuel Pool Geometry

SFP Geometry Parameter	Value	Reference
Nominal Pool Width (in)	240	3.11
Nominal Pool Length (in)	480	3.11
Bottom of SFP Elevation (ft)	816.25	3.12
SFP Top Elevation (ft)	855.33	3.12
Pool Steel Thickness (in)	0.25	3.13
Pool Concrete Thickness (in)	54	3.13
Pool Height (in)	469	3.12

5.8 The material properties are formulated using the SCALE Standard Composition Library (Reference 3.7). Materials compositions are summarized in Table 5-4. A ZAID is a numerical way of listing the element by a 3 digit atomic number (Z) followed by a 3 digit mass number (A) with the leading zeroes omitted (or simply ZAID=Zx1000+A). Listing 3 zeroes for the mass number means the natural composition of the element is used (if this option is available).

Table 5-4 Standard Composition Library Material Descriptions

Material	MCNP5 Material Number	ZAID	Weight Fraction	Density (g/cm ³)	Reference
UO ₂	1	92000	1*	10.41	Design Input 5.9, 3.7
		8000	2*		
Zirc2	2	40000	9.825E-01	6.56	3.7
		50000	1.450E-02		
		26000	1.350E-03		
		24000	1.000E-03		
		28000	5.500E-04		
Stainless Steel (Type 304)	3	72000	1.000E-04	7.94	3.7
		6000	8.000E-04		
		14000	1.000E-02		
		15031	4.500E-04		
		24000	1.900E-01		
		25055	2.000E-02		
Concrete	4	26000	6.838E-01	2.30	3.7
		28000	9.500E-02		
		1001	1.000E-02		
		8016	5.320E-01		
		11023	2.900E-02		
		13027	3.400E-02		
		14000	3.370E-01		
20000	4.400E-02				
26000	1.400E-02				

*Atom fraction

5.9 The UO₂ fuel density is 10.41 g/cm³, which is consistent with the density used in ORIGEN-ARP (Reference 3.7, Table D1.A.3).

5.10 The key elevations and distances to determine the dose rate from a drained SFP to the EAB and MCR are presented in Table 5-5. Note, directions are based on site north, not true north.

Table 5-5 Elevations, Dimensions, and Columns

Parameter	Value	Reference
SFP North-South Centerline	10' South of Row 7.1 (20'/2)	3.13
Distance Between Rows 7.1 and 11.1	91' (22'-9" * 4)	3.14
Distance Between Rows 11.1 and 14.05	69'-8 1/4" (1'-9 3/4" + 66'-11 3/4" - 5' 7 1/4" + 6'-6")	3.15
MCR North-South Centerline (Approximate)	34'-10 1/8" South of 14.05 (69'-8 1/4" / 2)	3.15
Reactor North-South Centerline	Row 8.1	3.13
Distance Between Rows 7.1 and 8.1	22'-9"	3.14
Minimum Distance from Reactor to EAB	1906.17'	3.16 (See Section 7.1)
SFP East-West Center	16'-7" East of Column F	3.11
Distance Between Columns F and F _{a2}	8'-1"	3.11 and 3.15
Distance Between Columns F _{a2} and J _a	77'-5" (26'-10" + 25'-4" + 25'-3")	3.15
MCR East-West Centerline (Approximate)	38"-8 1/2" East of Column F _{a2} (77'-5" / 2)	3.15
MCR El.	786'	3.15
Station Grade	757'	3.8 Section 2.4.3.1

5.11 The fuel photon source terms are reported in the standard 18-group photon group structure shown in Table 5-6 (Reference 3.17).

Table 5-6 Photon Energy Group Structure

Group	Lower Bound (MeV)	Upper Bound (MeV)
1	1.00E-02	5.00E-02
2	5.00E-02	1.00E-01
3	1.00E-01	2.00E-01
4	2.00E-01	3.00E-01
5	3.00E-01	4.00E-01
6	4.00E-01	6.00E-01
7	6.00E-01	8.00E-01
8	8.00E-01	1.00E+00
9	1.00E+00	1.33E+00
10	1.33E+00	1.66E+00
11	1.66E+00	2.00E+00
12	2.00E+00	2.50E+00
13	2.50E+00	3.00E+00
14	3.00E+00	4.00E+00
15	4.00E+00	5.00E+00
16	5.00E+00	6.50E+00
17	6.50E+00	8.00E+00
18	8.00E+00	1.00E+01

5.12 The concrete Control Building wall/ceiling is a minimum of 2' thick. This is consistent with the FSAR, which also lists the Control Building walls and ceiling as 2' thick (Reference 3.8, Section 3.5.1.3.3).

5.13 The tenth-value layer of concrete for 1 MeV photons (Assumption 4.4) is 14.7 cm (5.78 in) (Reference 3.18, Table 7-1 (see Attachment 9)). The tenth-value layer in Reference 3.18 uses the relaxation length/value layer that indicated that buildup is considered in determining the tenth-value layer thickness.

6.0 Methodology and Acceptance Criteria

6.1 Spent Fuel Binned Groups and Decay Times

The expected Cycle 27 inventory and projected DAEC SFP inventory in Attachment 4 are reviewed to determine the SFP inventory characteristics. The inventory includes the total number of assemblies, burnup, nominal enrichment, discharge date, and fuel geometry.

Multiple bounding initial decay times are applied to conservatively determine source terms for the assemblies. The groups are based on average burnups and minimum cool times to represent realistic source terms. This analysis will create a dose rate curve based on nine discrete decay times after the last discharge of: 0.75, 0.83, 0.92, 1, 1.25, 1.5, 2, 3, and 5 years. These are in addition to the initial decay times for each group.

6.2 Fuel Source Terms Using ORIGEN-ARP

The fuel source terms for each decay time are computed using ORIGEN-ARP, which is part of SCALE Version 6.1 computer code (Reference 3.7). ORIGEN-ARP is a SCALE analytical sequence that serves as a faster and easier-to-use alternative to traditional burnup analyses while preserving the accuracy of more complex computational systems. In the analysis scheme,

time-dependent material concentrations are solved using the ORIGEN-S isotope depletion and decay code. ARP interpolates cross section libraries for the GE10×10 assembly design and parameters specified in the input. The cross sections from ARP are then used in ORIGEN-S, which performs depletion and decay (Reference 3.7). The SCALE program package provides a cross section library for the GE10×10 assembly design for use in the ORIGEN-ARP program sequence. Since all Cycle 27 assemblies and the last eight reloads are GE10×10, this is used as the fuel type for all ORIGEN-ARP models (Assumption 4.12).

6.3 Determine Flux at the Top of the SFP Using MCNP5

The MCNP5 code (Reference 3.23) is used to model the SFP, which holds the fuel assemblies and SFP racks. The MCNP5 code package uses combinatorial geometry, with the option to divide the model into self-contained universes. The self-contained universe structure can be used to separate the fuel rods, fuel assemblies, and SFP racks into individual components that can be easily modified and checked.

The basic component of the geometry package is a set of general surfaces. To reduce the required user input, MCNP5 includes simplified expressions for cylinders and planes perpendicular to system axes and “macrobody” (cubes, finite cylinders, wedges, etc.). Models are constructed by combining geometry components (surfaces) into cells. Cells may be embedded in individual universes to simplify modeling. A given universe may be included in different positions within the geometry by translation. Translation allows movement in the x, y, and z directions and rotation using direction cosines.

The SFP model is created using the dimensions specified on the relevant design drawings. The material definitions of stainless steel, concrete, and Zirc2 are from the SCALE Standard Composition Library (Reference 3.7). The fuel (UO₂) is specified on an atomic basis with a density of 10.41 g/cm³ (Input 5.9). For this analysis, the SFP is drained down and there is no water. Similar to the ORIGEN-ARP model in Section 6.2, the Cycle 27 assembly geometry is used in the model.

Conservatism is incorporated into the MCNP5 model where appropriate. These include modeling air as a void to reduce attenuation in air and not including shielding materials in the model such as the neutron-absorbing material in the SFP racks, the fuel channels, or the reactor building roof.

Spent assemblies are placed sequentially, group by group, in the SFP racks. All extra spaces are modeled as empty SFP rack cells. Empty cells are placed on the outside rows to conservatively concentrate irradiated fuel towards the middle of the pool. The order and placement of the assemblies is inconsequential, as the total flux out of the top of the SFP is what's ultimately calculated.

6.4 Determine Dose at MCR and EAB Using Line Beam Response Method

The line beam response function methodology (LBRF) in Reference 3.19 is used to calculate the dose rate at the control room and site boundary. The line beam response function methodology is the industry standard four-parameter methodology to determine skyshine as a function of distance. This methodology is an alternative to Monte Carlo methods that require more extensive computations to determine converged dose rates at far distances. The four-factor line beam response method can accurately determine skyshine doses and is applicable for angles up to 180 degrees. The term "skyshine" refers to radiation originating from a fixed source and scattering in the atmosphere before reaching a receiver or detector. It becomes important when sufficient material shielding is present along the direct path from the source to the receiver to prevent any significant direct radiation from reaching the receiver through the intervening material. In this situation, only air-scattered or skyshine radiation contributes to the

dose rate at the receptor point.

This method provides an air kerma in units of rads per photon at a distance, x , from a point source emitting photons of energy, E , into an infinite area medium at an angle relative to the source-to-detector axis. The approach is documented in Reference 3.19. Excerpts of Reference 3.19 are included as Attachment 3.

The LBRF is approximated as follows.

$$R(x, E, \Phi) = kE x^{(b-dx)} e^{(a-cx)}$$

Where,

E = γ energy in MeV (Assumption 4.4)

k = 1.308E-11 rad/MeV/ γ (Reference 3.19, Appendix B)

x = distance in meters

a , b , c , d = fit parameters for a given energy and direction (Reference 3.19, Appendix B)

Φ = emission angle

R = air kerma = air-rad/photon

A SFP emission source at the top of the pool in photons/sec is necessary and this is determined by multiplying the MCNP5 F2 tally value by the surface area of the pool cross section.

Shielding is provided by the concrete walls around the control room. This shielding benefit will be included. To shield against photons or neutrons, a convenient concept is that of tenth-value layer. This is the thickness of a medium required to reduce the photon intensity to a tenth of initial value. It is dependent on the energy of the photon and the material it passes through. Tenth-value layer thickness including buildup, which accounts for the scattered photons, are available in Reference 3.18, and the referenced table is included in Attachment 9. The tenth-value layer of concrete with buildup for 1 MeV photons (Assumption 4.4) is used. No shielding is credited for dose rates at the EAB.

The dose rate at a distance is then the LBRF multiplied by the emission source.

$$\begin{aligned} \text{Dose Rate} \left(\frac{\text{air - mrad}}{\text{hr}} \right) &= R(x, E, \Phi) \left(\frac{\text{air - rad}}{\text{photon}} \right) * \frac{\text{photons}}{\text{s}} * \frac{1000 \text{ mrad}}{\text{rad}} * \frac{3600\text{s}}{\text{hr}} \\ &* \text{shielding factor (control room only)} \end{aligned}$$

The dose rate in mrads/hr is assumed to be equal to mrem/hr (Assumption 4.3)¹. The dose rate at the MCR includes shielding provided by walls, which provides considerable reduction in the dose rate. The dose rate at the EAB will be used to estimate how long it will take to reach the EPA PAG limit to start evacuation of the public of 1 rem (Reference 3.1). There is no acceptance criterion for the MCR in ISG-02 (Reference 3.2), instead, reasonableness is used as a criterion for the dose rate at the MCR.

¹ The dose rate in air is assumed to be equivalent to the dose rate in tissue (Reference 3.20, Chapter 5), and the dose rate in air will be measured for compliance with the EPA PAGs.

7.0 Calculation

7.1 Distance to the Main Control Room and Exclusion Area Boundary

The distance from the SFP center point to the MCR center point is computed using the distances in Table 5-5. To simplify the derivation, Figure 7-1 was created showing column lines, the MCR, the reactor, and the SFP. Note that this figure is not to scale.

The total east-west distance from the center of the pool to the center of the MCR is computed as $38'-8\frac{1}{2}"$ (center of the MCR to F_{a2}) – $8'-6"$ (center of the SFP to F_{a2}) = $30'-2\frac{1}{2}"$.

The total north-south distance from the center of the SFP to the center of the MCR is computed as $(69'-8\frac{1}{4}" - 34'-10\frac{1}{8}"$) (center of the MCR to 11.1) + $(91'-0" + 10'-0")$ (center of the SFP to 11.1) = $135'-10\frac{1}{8}"$.

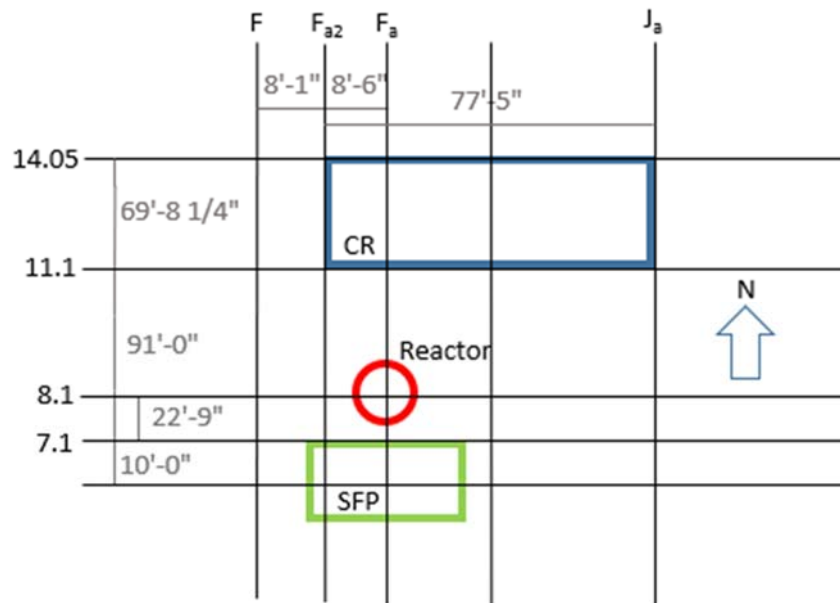
The hypotenuse is the square root of $(30.20833^2 + 135.84375^2) = 139.16$ ft. This is the distance on the same plane.

Now the elevation change must be considered. The MCR is on El. 786'-0" and the top of the SFP is on El. 855.33' (see Table 5-3 and Table 5-5). An additional 3' is subtracted to represent chest height doses in the control room. The resulting difference is 66.33 ft.

The distance from the SFP to the MCR accounting for the elevation change is the square root of $(66.33^2 + 139.16^2) = 154.16$ ft = 46.99 m.

Because the MCR is below the SFP, the angle is calculated as $180^\circ - \cos^{-1}(66.33 \text{ ft}/154.16 \text{ ft}) = 115$ degrees. The LBRF method fit parameters for the 110-degree angle are applied, which is both the closest angle and more conservative because it's smaller.

Figure 7-1 Distance from SFP to MCR and Reactor



The minimum distance from the SFP center point to the EAB was determined based on scaling distances from the Reference 3.16 site plan drawing. Reference 3.16 shows the reactor building and the EAB, labeled “Property Line” to the south and west and “River Bank” to the east.

Distances from the reactor, marked on the drawing, to the EAB in eleven directions were determined, and the minimum distance used. Table 7-1 shows the distances for each direction; the minimum distance is 581 m (1906.17 ft) east southeast.

Table 7-1 Distance from the Reactor to the EAB

Direction	S	SSW	SW	WSW	W	WNW	ENE	E	ESE	SE	SSE
Distance (m)	632	707	865	665	615	640	640	559	581	606	698

The total north-south distance from the center of the SFP to the center of the reactor is computed as 22'-9" (center of the Reactor to 7.1) + 10'-0" (center of the SFP to 7.1) = 32'-9". The reactor and the SFP share the same east-west centerline.

The east-west distance from the reactor/SFP centerline to the EAB is calculated as $\cos(22.5^\circ) * 1906.17 \text{ ft} = 1761.07 \text{ ft}$. 22.5 degrees is used to represent east southeast.

The north-south distance from the reactor centerline to the EAB is calculated as $\sin(22.5^\circ) * 1906.17 \text{ ft} = 729.46 \text{ ft}$. The north-south distance from the SFP to the EAB is computed as 729.46 ft (center of the reactor to the EAB) – 32.75 ft (center of the reactor to center of the SFP) = 696.71 ft.

The hypotenuse is the square root of $(1761.07^2 + 696.71^2) = 1893.87 \text{ ft}$. This is the minimum distance from the SFP to the EAB on the same plane.

Now the elevation change must be considered. Station grade is 757'-0" and the top of the SFP is on El. 855'-4" (see Table 5-5). An additional 3' is subtracted to represent chest height doses at the EAB. The resulting difference is 95.33 ft.

The distance from the SFP to the EAB accounting for the elevation change is the square root of $(95.33^2 + 1893.87^2) = 1896.26 \text{ ft} = 578.0 \text{ m}$.

Because the EAB is below the SFP, the angle is calculated as $180^\circ - \cos^{-1}(95.33 \text{ ft}/1896.26 \text{ ft}) = 93 \text{ degrees}$. The LBRF method fit parameters for the 95-degree angle are applied, the closest smaller, more conservative, angle that has fit parameters is 85 degrees, which cannot be used because the EAB is below the SFP therefore the angle must be greater than 90 degrees.

7.2 ORIGEN-ARP Inputs

This section describes the computations required to perform the fuel source term evaluation. Using Attachment 4, the expected SFP inventory was separated into six initial decay time groupings of 0 year, 2 years, 4 years, 6 years, 10 years, and 20 years post-shutdown. These six groups are subsequently decayed to represent 0.75 year (9 months), 0.83 year (10 months), 0.92 years (11 months), 1 year, 1.25 years, 1.5 years, 2 years, 3 years, and 5 years post-shutdown. Table 7-3 contains the inputs needed in the ORIGEN-ARP program. The moderator density of 0.429 g/cc is from Reference 3.21. The burnup is the average burnup of the assemblies in that group. The enrichment is the average nominal enrichment of the assemblies in the group. The values in Table 7-2 are from the Cycle 27 information and the existing SFP inventory (Reference 3.6). The reference date for the 'Initial Cool Time' is November 30, 2020 (Reference 3.6).

The average assembly power level (MW/MTU) is calculated in Excel based on the core power, average fuel mass (MTU) per assembly from Attachment 4 for each of the assembly groups, and number of assemblies in the core (368 per Input 5.3). The power level of 1912 MWt is used (Input 5.2). This conservatively does not account for lower power levels from earlier years of operation. An example of the last group is presented below:

20 Years Cooled Group Avg. Bundle Power Level

$$\begin{aligned}
 &= 1912 \text{ MWt} \times \frac{1 \text{ core}}{368 \text{ assemblies}} \\
 &\times \text{average} \left(\frac{1 \text{ assembly}}{\text{MTU in batch} / \# \text{ assemblies in batch}} \right) \\
 &= 1912 \text{ MWt} \times \frac{1 \text{ core}}{368 \text{ assemblies}} \times \frac{1}{0.1795 \frac{\text{MTU}}{\text{assembly}}} = 28.94 \text{ MWt/MTU}
 \end{aligned}$$

Attachment 6 shows the decay heat values from ORIGEN-ARP for each group. The decay heat from the limiting Cycle 27 fuel element was also calculated. The parameters used for the limiting element were the maximum burnup (50,831 MWd/MTU), minimum enrichment (3.936%), and maximum fuel mass (0.1865 MTU). The power level (MW/MTU) for the limiting fuel element was calculated based on the actual irradiation time, Cycle 25 start date to Cycle 27 end date, not accounting for refueling outages. The cycle 25 start date is 11/26/2014 based on the information provided in the NRC Reactor Power Status Reports for 2014 (Reference 3.22). The cycle start date is taken as the first day reactor power began increasing following the refueling outage. The Cycle 27 end date is 11/30/2020 (Input 5.5). The limiting fuel element power level calculation is shown below.

$$\begin{aligned}
 \text{Limiting Bundle Power Level} &= \frac{\text{Burnup} \left(\frac{\text{MWd}}{\text{MTU}} \right)}{\text{Irradiation Time (d)}} = \frac{50,831 \frac{\text{MWd}}{\text{MTU}}}{11/30/2020 - 11/26/2014} \\
 &= \frac{50,831 \frac{\text{MWd}}{\text{MTU}}}{2196 \text{ d}} = 23.15 \text{ MWt/MTU}
 \end{aligned}$$

Table 7-2 SFP Inventory Grouping

Group	# Assemblies	Avg. Nominal Enrich. (wt%)	Latest Discharge Date	Average. Burnup (MWd/MT)	Average Assembly Power Level (MW/MTU)
0 yr	368	4.111	11/30/2020	36,934	27.97
2 yr	152	4.113	9/4/2018	44,415	27.94
4 yr	152	4.163	10/3/2016	43,982	28.37
6 yr	261	4.191	10/4/2014	44,110	28.98
10 yr	641	3.898	10/23/2010	40,678	29.04
20 yr	549	2.989	10/22/1999	32,540	28.94
Total	2123				

Table 7-3 ORIGEN-ARP Express Inputs

Parameter	Value	Value	Value	Value	Value	Value
Case Title	0Y	2Y	4Y	6Y	10Y	20Y
Fuel Type	GE10×10-8	GE10×10-8	GE10×10-8	GE10×10-8	GE10×10-8	GE10×10-8
1 MTU Uranium (g)	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Average Enrichment (wt% U235)	4.111	4.113	4.163	4.191	3.898	2.989
Average MTU/Assy	0.1857	0.1859	0.1832	0.1793	0.1789	0.1795
Average Burnup (MWd/MTU)	36,934	44,415	43,982	44,110	40,678	32,540
Moderator Density (g/cm ³)	0.429	0.429	0.429	0.429	0.429	0.429
Average Power (MW/MTU)	27.97	27.94	28.37	28.98	29.04	28.94
Decay Times (years)	0.00	0.00*	0.00*	0.00*	0.00*	0.00*
	0.75	2.00	3.00*	3.00*	3.00*	3.00*
	0.83	2.75	4.00	6.00	9.00*	9.00*
	0.92	2.83	4.75	6.75	10.00	20.00
	1.00	2.92	4.83	6.83	10.75	20.75
	1.25	3.00	4.92	6.92	10.83	20.83
	1.50	3.25	5.00	7.00	10.92	20.92
	2.00	3.50	5.25	7.25	11.00	21.00
	3.00	4.00	5.50	7.50	11.25	21.25
	5.00	5.00	6.00	8.00	11.50	21.50
		7.00	7.00	9.00	12.00	22.00
		9.00	11.00	13.00	23.00	
				15.00	25.00	

*Note: Decay times are required by ORIGEN's "rule of three" but are not used in this analysis.

7.3 ORIGEN-ARP Fuel Source Term File Naming

ORIGEN cases are developed for the SFP based on the different initial decay time groupings of 0 year, 2 years, 4 years, 6 years, 10 years, and 20 years. As discussed in Section 7.2, these include no decay as well as initial decay periods of 0.75 year, 0.83 year, 0.92 year, 1 year, 1.25 years, 1.5 years, 2 years, 3 years, and 5 years. The ORIGEN-ARP input files are identified in Table 7-4. The output file will be of file type ".out". There are two input files for the 2 year, 4 year, 6 year, 10 year, and 20 year decay groups due to limitations in the number of decay cases allowed in a single ORIGEN-ARP input file.

Table 7-4 ORIGEN-ARP Input Files

Input File Name	Cool times included
0Y.inp	0 year, 0.75 year, 0.83 year, 0.92 year, 1 year, 1.25 years, 1.5 years, 2 years, 3 years, 5 years
2Y 1.inp	2 years, 3 years, 3.25 years, 3.5 years, 4 years, 5 years, 7 years
2Y 2.inp	2.75 years, 2.83 years, 2.92 years
4Y 1.inp	4 years, 5 years, 5.25 years, 5.5 years, 6 years, 7 years, 9 years
4Y 2.inp	4.75 years, 4.83 years, 4.92 years
6Y 1.inp	6 years, 7 years, 7.25 years, 7.5 years, 8 years, 9 years, 11 years
6Y 2.inp	6.75 years, 6.83 years, 6.92 years
10Y 1.inp	10 years, 11 years, 11.25 years, 11.5 years, 12 years, 13 years, 15 years
10Y 2.inp	10.75 years, 10.83 years, 10.92 years
20Y 1.inp	20 years, 21 years, 21.25 years, 21.5 years, 22 years, 23 years, 25 years
20Y 2.inp	20.75 years, 20.83 years, 20.92 years

7.4 Fuel Source Terms

The resulting ORIGEN generated source terms are presented in Table 7-5 through Table 7-10. All ORIGEN input files are in Attachment 1.

Table 7-5 0 Years of Initial Decay Source Term (0Y.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			0 year	0.75 year	0.83 year	0.92 year	1 year
1	1.00E-02	5.00E-02	2.05E+18	2.13E+16	1.99E+16	1.85E+16	1.74E+16
2	5.00E-02	1.00E-01	1.04E+18	6.96E+15	6.52E+15	6.07E+15	5.71E+15
3	1.00E-01	2.00E-01	1.14E+18	7.06E+15	6.58E+15	6.11E+15	5.72E+15
4	2.00E-01	3.00E-01	7.56E+17	1.74E+15	1.63E+15	1.52E+15	1.43E+15
5	3.00E-01	4.00E-01	5.42E+17	1.35E+15	1.27E+15	1.18E+15	1.11E+15
6	4.00E-01	6.00E-01	9.81E+17	7.11E+15	6.70E+15	6.33E+15	6.04E+15
7	6.00E-01	8.00E-01	8.77E+17	1.73E+16	1.49E+16	1.30E+16	1.16E+16
8	8.00E-01	1.00E+00	6.74E+17	2.09E+15	2.02E+15	1.95E+15	1.89E+15
9	1.00E+00	1.33E+00	5.26E+17	6.02E+14	5.75E+14	5.47E+14	5.25E+14
10	1.33E+00	1.66E+00	3.92E+17	2.67E+14	2.54E+14	2.41E+14	2.30E+14
11	1.66E+00	2.00E+00	1.85E+17	3.72E+13	3.50E+13	3.26E+13	3.07E+13
12	2.00E+00	2.50E+00	1.65E+17	1.56E+14	1.45E+14	1.34E+14	1.25E+14
13	2.50E+00	3.00E+00	1.05E+17	2.32E+12	2.19E+12	2.06E+12	1.95E+12
14	3.00E+00	4.00E+00	7.00E+16	2.06E+11	1.95E+11	1.84E+11	1.74E+11
15	4.00E+00	5.00E+00	2.04E+16	1.18E+07	1.15E+07	1.11E+07	1.09E+07
16	5.00E+00	6.50E+00	7.70E+15	4.74E+06	4.61E+06	4.47E+06	4.36E+06
17	6.50E+00	8.00E+00	5.69E+13	9.30E+05	9.03E+05	8.76E+05	8.55E+05
18	8.00E+00	1.00E+01	2.79E+11	1.97E+05	1.92E+05	1.86E+05	1.82E+05
Total	-	-	9.54E+18	6.60E+16	6.06E+16	5.56E+16	5.19E+16

Table 7-5 (cont'd) 0 Years of Initial Decay Source Term (0Y.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			1.25 years	1.5 years	2 years	3 years	5 years
1	1.00E-02	5.00E-02	1.45E+16	1.22E+16	8.88E+15	5.16E+15	2.65E+15
2	5.00E-02	1.00E-01	4.74E+15	3.98E+15	2.85E+15	1.60E+15	7.67E+14
3	1.00E-01	2.00E-01	4.71E+15	3.91E+15	2.74E+15	1.45E+15	6.12E+14
4	2.00E-01	3.00E-01	1.18E+15	9.90E+14	7.06E+14	3.88E+14	1.75E+14
5	3.00E-01	4.00E-01	9.19E+14	7.67E+14	5.42E+14	2.91E+14	1.23E+14
6	4.00E-01	6.00E-01	5.30E+15	4.69E+15	3.72E+15	2.40E+15	1.10E+15
7	6.00E-01	8.00E-01	9.16E+15	7.95E+15	6.76E+15	5.53E+15	4.21E+15
8	8.00E-01	1.00E+00	1.71E+15	1.56E+15	1.29E+15	9.09E+14	4.71E+14
9	1.00E+00	1.33E+00	4.62E+14	4.09E+14	3.26E+14	2.22E+14	1.28E+14
10	1.33E+00	1.66E+00	1.99E+14	1.73E+14	1.32E+14	8.17E+13	3.68E+13
11	1.66E+00	2.00E+00	2.55E+13	2.12E+13	1.47E+13	7.17E+12	1.84E+12
12	2.00E+00	2.50E+00	1.01E+14	8.14E+13	5.29E+13	2.24E+13	4.11E+12
13	2.50E+00	3.00E+00	1.64E+12	1.38E+12	9.76E+11	4.90E+11	1.24E+11
14	3.00E+00	4.00E+00	1.47E+11	1.24E+11	8.80E+10	4.45E+10	1.14E+10
15	4.00E+00	5.00E+00	1.02E+07	9.72E+06	9.10E+06	8.47E+06	7.79E+06
16	5.00E+00	6.50E+00	4.09E+06	3.90E+06	3.65E+06	3.40E+06	3.13E+06
17	6.50E+00	8.00E+00	8.02E+05	7.65E+05	7.16E+05	6.67E+05	6.13E+05
18	8.00E+00	1.00E+01	1.70E+05	1.62E+05	1.52E+05	1.42E+05	1.30E+05
Total	-	-	4.30E+16	3.68E+16	2.80E+16	1.81E+16	1.03E+16

Table 7-6 2 Years of Initial Decay Source Term (2Y 1.out and 2Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			2 years	2.75 years	2.83 years	2.92 years	3 years
1	1.00E-02	5.00E-02	9.71E+15	6.48E+15	6.24E+15	5.98E+15	5.76E+15
2	5.00E-02	1.00E-01	3.11E+15	2.02E+15	1.94E+15	1.85E+15	1.78E+15
3	1.00E-01	2.00E-01	2.93E+15	1.83E+15	1.75E+15	1.66E+15	1.59E+15
4	2.00E-01	3.00E-01	7.72E+14	4.94E+14	4.73E+14	4.51E+14	4.32E+14
5	3.00E-01	4.00E-01	5.90E+14	3.70E+14	3.53E+14	3.36E+14	3.21E+14
6	4.00E-01	6.00E-01	4.79E+15	3.47E+15	3.36E+15	3.24E+15	3.13E+15
7	6.00E-01	8.00E-01	8.45E+15	7.21E+15	7.10E+15	6.99E+15	6.89E+15
8	8.00E-01	1.00E+00	1.74E+15	1.33E+15	1.30E+15	1.26E+15	1.23E+15
9	1.00E+00	1.33E+00	4.08E+14	3.08E+14	3.00E+14	2.91E+14	2.83E+14
10	1.33E+00	1.66E+00	1.67E+14	1.17E+14	1.13E+14	1.09E+14	1.05E+14
11	1.66E+00	2.00E+00	1.67E+13	9.77E+12	9.24E+12	8.67E+12	8.20E+12
12	2.00E+00	2.50E+00	5.36E+13	2.82E+13	2.64E+13	2.44E+13	2.28E+13
13	2.50E+00	3.00E+00	1.15E+12	6.87E+11	6.50E+11	6.11E+11	5.78E+11
14	3.00E+00	4.00E+00	1.05E+11	6.27E+10	5.94E+10	5.59E+10	5.29E+10
15	4.00E+00	5.00E+00	2.03E+07	1.94E+07	1.93E+07	1.92E+07	1.92E+07
16	5.00E+00	6.50E+00	8.16E+06	7.79E+06	7.75E+06	7.72E+06	7.69E+06
17	6.50E+00	8.00E+00	1.60E+06	1.53E+06	1.52E+06	1.51E+06	1.51E+06
18	8.00E+00	1.00E+01	3.40E+05	3.24E+05	3.23E+05	3.22E+05	3.20E+05
Total	-	-	3.27E+16	2.37E+16	2.30E+16	2.22E+16	2.16E+16

Table 7-6 (cont'd) 2 Years of Initial Decay Source Term (2Y 1.out and 2Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			3.25 years	3.5 years	4 years	5 years	7 years
1	1.00E-02	5.00E-02	5.17E+15	4.68E+15	3.93E+15	3.05E+15	2.35E+15
2	5.00E-02	1.00E-01	1.58E+15	1.42E+15	1.17E+15	8.77E+14	6.55E+14
3	1.00E-01	2.00E-01	1.39E+15	1.23E+15	9.82E+14	7.00E+14	4.92E+14
4	2.00E-01	3.00E-01	3.81E+14	3.39E+14	2.75E+14	2.01E+14	1.44E+14
5	3.00E-01	4.00E-01	2.81E+14	2.48E+14	1.97E+14	1.39E+14	9.59E+13
6	4.00E-01	6.00E-01	2.83E+15	2.56E+15	2.11E+15	1.45E+15	7.31E+14
7	6.00E-01	8.00E-01	6.60E+15	6.34E+15	5.88E+15	5.18E+15	4.31E+15
8	8.00E-01	1.00E+00	1.13E+15	1.04E+15	8.78E+14	6.37E+14	3.47E+14
9	1.00E+00	1.33E+00	2.62E+14	2.43E+14	2.12E+14	1.68E+14	1.19E+14
10	1.33E+00	1.66E+00	9.45E+13	8.53E+13	7.00E+13	4.86E+13	2.57E+13
11	1.66E+00	2.00E+00	6.88E+12	5.79E+12	4.11E+12	2.13E+12	6.78E+11
12	2.00E+00	2.50E+00	1.85E+13	1.49E+13	9.80E+12	4.24E+12	8.21E+11
13	2.50E+00	3.00E+00	4.87E+11	4.10E+11	2.91E+11	1.47E+11	3.76E+10
14	3.00E+00	4.00E+00	4.46E+10	3.77E+10	2.68E+10	1.36E+10	3.51E+09
15	4.00E+00	5.00E+00	1.89E+07	1.87E+07	1.84E+07	1.77E+07	1.64E+07
16	5.00E+00	6.50E+00	7.60E+06	7.52E+06	7.37E+06	7.09E+06	6.57E+06
17	6.50E+00	8.00E+00	1.49E+06	1.48E+06	1.45E+06	1.39E+06	1.29E+06
18	8.00E+00	1.00E+01	3.17E+05	3.13E+05	3.07E+05	2.95E+05	2.74E+05
Total	-	-	1.97E+16	1.82E+16	1.57E+16	1.25E+16	9.27E+15

Table 7-7 4 Years of Initial Decay Source Term (4Y 1.out and 4Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			4 years	4.75 years	4.83 years	4.92 years	5 years
1	1.00E-02	5.00E-02	3.93E+15	3.21E+15	3.15E+15	3.09E+15	3.04E+15
2	5.00E-02	1.00E-01	1.17E+15	9.30E+14	9.11E+14	8.91E+14	8.75E+14
3	1.00E-01	2.00E-01	9.82E+14	7.52E+14	7.34E+14	7.15E+14	6.99E+14
4	2.00E-01	3.00E-01	2.75E+14	2.14E+14	2.10E+14	2.05E+14	2.00E+14
5	3.00E-01	4.00E-01	1.98E+14	1.50E+14	1.46E+14	1.42E+14	1.39E+14
6	4.00E-01	6.00E-01	2.07E+15	1.56E+15	1.52E+15	1.47E+15	1.43E+15
7	6.00E-01	8.00E-01	5.81E+15	5.27E+15	5.22E+15	5.17E+15	5.12E+15
8	8.00E-01	1.00E+00	8.61E+14	6.76E+14	6.59E+14	6.41E+14	6.25E+14
9	1.00E+00	1.33E+00	2.09E+14	1.74E+14	1.71E+14	1.68E+14	1.65E+14
10	1.33E+00	1.66E+00	6.89E+13	5.22E+13	5.07E+13	4.91E+13	4.78E+13
11	1.66E+00	2.00E+00	4.10E+12	2.49E+12	2.37E+12	2.23E+12	2.12E+12
12	2.00E+00	2.50E+00	9.92E+12	5.29E+12	4.94E+12	4.59E+12	4.29E+12
13	2.50E+00	3.00E+00	2.89E+11	1.73E+11	1.64E+11	1.54E+11	1.46E+11
14	3.00E+00	4.00E+00	2.66E+10	1.60E+10	1.51E+10	1.42E+10	1.35E+10
15	4.00E+00	5.00E+00	1.71E+07	1.66E+07	1.66E+07	1.65E+07	1.65E+07
16	5.00E+00	6.50E+00	6.88E+06	6.68E+06	6.66E+06	6.64E+06	6.62E+06
17	6.50E+00	8.00E+00	1.35E+06	1.31E+06	1.31E+06	1.30E+06	1.30E+06
18	8.00E+00	1.00E+01	2.86E+05	2.78E+05	2.77E+05	2.76E+05	2.76E+05
Total	-	-	1.56E+16	1.30E+16	1.28E+16	1.26E+16	1.24E+16

Table 7-7 (cont'd) 4 Years of Initial Decay Source Term (4Y 1.out and 4Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			5.25 years	5.5 years	6 years	7 years	9 years
1	1.00E-02	5.00E-02	2.90E+15	2.78E+15	2.59E+15	2.34E+15	2.07E+15
2	5.00E-02	1.00E-01	8.29E+14	7.90E+14	7.30E+14	6.53E+14	5.79E+14
3	1.00E-01	2.00E-01	6.55E+14	6.18E+14	5.61E+14	4.90E+14	4.21E+14
4	2.00E-01	3.00E-01	1.89E+14	1.79E+14	1.63E+14	1.44E+14	1.25E+14
5	3.00E-01	4.00E-01	1.30E+14	1.22E+14	1.10E+14	9.57E+13	8.25E+13
6	4.00E-01	6.00E-01	1.30E+15	1.19E+15	1.00E+15	7.18E+14	3.87E+14
7	6.00E-01	8.00E-01	4.99E+15	4.86E+15	4.63E+15	4.26E+15	3.76E+15
8	8.00E-01	1.00E+00	5.78E+14	5.35E+14	4.59E+14	3.41E+14	1.95E+14
9	1.00E+00	1.33E+00	1.57E+14	1.50E+14	1.37E+14	1.17E+14	9.16E+13
10	1.33E+00	1.66E+00	4.38E+13	4.03E+13	3.42E+13	2.52E+13	1.47E+13
11	1.66E+00	2.00E+00	1.81E+12	1.55E+12	1.15E+12	6.75E+11	3.17E+11
12	2.00E+00	2.50E+00	3.48E+12	2.83E+12	1.87E+12	8.29E+11	1.73E+11
13	2.50E+00	3.00E+00	1.23E+11	1.04E+11	7.36E+10	3.73E+10	9.78E+09
14	3.00E+00	4.00E+00	1.14E+10	9.60E+09	6.84E+09	3.48E+09	9.21E+08
15	4.00E+00	5.00E+00	1.63E+07	1.62E+07	1.59E+07	1.53E+07	1.42E+07
16	5.00E+00	6.50E+00	6.55E+06	6.49E+06	6.37E+06	6.13E+06	5.69E+06
17	6.50E+00	8.00E+00	1.29E+06	1.27E+06	1.25E+06	1.20E+06	1.12E+06
18	8.00E+00	1.00E+01	2.73E+05	2.70E+05	2.65E+05	2.55E+05	2.37E+05
Total	-	-	1.18E+16	1.13E+16	1.04E+16	9.18E+15	7.73E+15

Table 7-8 6 Years of Initial Decay Source Term (6Y 1.out and 6Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			6 years	6.75 years	6.83 years	6.92 years	7 years
1	1.00E-02	5.00E-02	2.60E+15	2.40E+15	2.38E+15	2.36E+15	2.35E+15
2	5.00E-02	1.00E-01	7.35E+14	6.72E+14	6.67E+14	6.62E+14	6.57E+14
3	1.00E-01	2.00E-01	5.65E+14	5.07E+14	5.02E+14	4.97E+14	4.93E+14
4	2.00E-01	3.00E-01	1.64E+14	1.49E+14	1.47E+14	1.46E+14	1.45E+14
5	3.00E-01	4.00E-01	1.11E+14	9.92E+13	9.83E+13	9.72E+13	9.63E+13
6	4.00E-01	6.00E-01	1.01E+15	7.86E+14	7.66E+14	7.44E+14	7.24E+14
7	6.00E-01	8.00E-01	4.65E+15	4.37E+15	4.34E+15	4.31E+15	4.28E+15
8	8.00E-01	1.00E+00	4.62E+14	3.70E+14	3.61E+14	3.52E+14	3.43E+14
9	1.00E+00	1.33E+00	1.38E+14	1.22E+14	1.21E+14	1.19E+14	1.18E+14
10	1.33E+00	1.66E+00	3.45E+13	2.74E+13	2.67E+13	2.60E+13	2.54E+13
11	1.66E+00	2.00E+00	1.17E+12	7.74E+11	7.43E+11	7.10E+11	6.83E+11
12	2.00E+00	2.50E+00	1.91E+12	1.03E+12	9.68E+11	9.00E+11	8.44E+11
13	2.50E+00	3.00E+00	7.46E+10	4.48E+10	4.24E+10	3.99E+10	3.78E+10
14	3.00E+00	4.00E+00	6.92E+09	4.17E+09	3.95E+09	3.72E+09	3.52E+09
15	4.00E+00	5.00E+00	1.59E+07	1.54E+07	1.54E+07	1.53E+07	1.53E+07
16	5.00E+00	6.50E+00	6.36E+06	6.18E+06	6.16E+06	6.14E+06	6.12E+06
17	6.50E+00	8.00E+00	1.25E+06	1.21E+06	1.21E+06	1.21E+06	1.20E+06
18	8.00E+00	1.00E+01	2.65E+05	2.57E+05	2.57E+05	2.56E+05	2.55E+05
Total	-	-	1.05E+16	9.50E+15	9.41E+15	9.32E+15	9.23E+15

Table 7-8 (cont'd) 6 Years of Initial Decay Source Term (6Y 1.out and 6Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			7.25 years	7.5 years	8 years	9 years	11 years
1	1.00E-02	5.00E-02	2.30E+15	2.26E+15	2.19E+15	2.08E+15	1.93E+15
2	5.00E-02	1.00E-01	6.43E+14	6.31E+14	6.11E+14	5.82E+14	5.43E+14
3	1.00E-01	2.00E-01	4.80E+14	4.69E+14	4.51E+14	4.23E+14	3.87E+14
4	2.00E-01	3.00E-01	1.41E+14	1.38E+14	1.33E+14	1.26E+14	1.16E+14
5	3.00E-01	4.00E-01	9.38E+13	9.16E+13	8.81E+13	8.30E+13	7.67E+13
6	4.00E-01	6.00E-01	6.68E+14	6.17E+14	5.27E+14	3.90E+14	2.26E+14
7	6.00E-01	8.00E-01	4.21E+15	4.13E+15	4.00E+15	3.78E+15	3.45E+15
8	8.00E-01	1.00E+00	3.19E+14	2.97E+14	2.58E+14	1.97E+14	1.20E+14
9	1.00E+00	1.33E+00	1.14E+14	1.10E+14	1.03E+14	9.20E+13	7.50E+13
10	1.33E+00	1.66E+00	2.36E+13	2.20E+13	1.92E+13	1.48E+13	9.31E+12
11	1.66E+00	2.00E+00	6.06E+11	5.42E+11	4.42E+11	3.20E+11	2.22E+11
12	2.00E+00	2.50E+00	6.90E+11	5.65E+11	3.80E+11	1.76E+11	4.40E+10
13	2.50E+00	3.00E+00	3.19E+10	2.69E+10	1.92E+10	9.90E+09	2.81E+09
14	3.00E+00	4.00E+00	2.98E+09	2.52E+09	1.80E+09	9.32E+08	2.67E+08
15	4.00E+00	5.00E+00	1.51E+07	1.50E+07	1.47E+07	1.42E+07	1.31E+07
16	5.00E+00	6.50E+00	6.07E+06	6.01E+06	5.90E+06	5.68E+06	5.27E+06
17	6.50E+00	8.00E+00	1.19E+06	1.18E+06	1.16E+06	1.11E+06	1.03E+06
18	8.00E+00	1.00E+01	2.53E+05	2.50E+05	2.46E+05	2.37E+05	2.19E+05
Total	-	-	8.99E+15	8.77E+15	8.38E+15	7.77E+15	6.93E+15

Table 7-9 10 Years of Initial Decay Source Term (10Y 1.out and 10Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			10 years	10.75 years	10.83 years	10.92 years	11 years
1	1.00E-02	5.00E-02	1.85E+15	1.80E+15	1.79E+15	1.79E+15	1.78E+15
2	5.00E-02	1.00E-01	5.18E+14	5.06E+14	5.05E+14	5.03E+14	5.02E+14
3	1.00E-01	2.00E-01	3.72E+14	3.60E+14	3.59E+14	3.58E+14	3.57E+14
4	2.00E-01	3.00E-01	1.11E+14	1.08E+14	1.08E+14	1.07E+14	1.07E+14
5	3.00E-01	4.00E-01	7.35E+13	7.15E+13	7.13E+13	7.11E+13	7.09E+13
6	4.00E-01	6.00E-01	2.68E+14	2.19E+14	2.15E+14	2.10E+14	2.05E+14
7	6.00E-01	8.00E-01	3.33E+15	3.22E+15	3.21E+15	3.20E+15	3.19E+15
8	8.00E-01	1.00E+00	1.37E+14	1.15E+14	1.12E+14	1.10E+14	1.08E+14
9	1.00E+00	1.33E+00	7.45E+13	6.92E+13	6.87E+13	6.81E+13	6.76E+13
10	1.33E+00	1.66E+00	1.05E+13	8.87E+12	8.72E+12	8.56E+12	8.41E+12
11	1.66E+00	2.00E+00	2.40E+11	2.13E+11	2.11E+11	2.09E+11	2.07E+11
12	2.00E+00	2.50E+00	8.31E+10	5.01E+10	4.76E+10	4.50E+10	4.28E+10
13	2.50E+00	3.00E+00	5.01E+09	3.13E+09	2.98E+09	2.82E+09	2.69E+09
14	3.00E+00	4.00E+00	4.73E+08	2.96E+08	2.82E+08	2.67E+08	2.54E+08
15	4.00E+00	5.00E+00	1.12E+07	1.09E+07	1.09E+07	1.08E+07	1.08E+07
16	5.00E+00	6.50E+00	4.50E+06	4.37E+06	4.36E+06	4.35E+06	4.33E+06
17	6.50E+00	8.00E+00	8.82E+05	8.58E+05	8.55E+05	8.53E+05	8.50E+05
18	8.00E+00	1.00E+01	1.87E+05	1.82E+05	1.82E+05	1.81E+05	1.81E+05
Total	-	-	6.74E+15	6.48E+15	6.45E+15	6.43E+15	6.40E+15

Table 7-9 (cont'd) 10 Years of Initial Decay Source Term (10Y 1.out and 10Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			11.25 years	11.5 years	12 years	13 years	15 years
1	1.00E-02	5.00E-02	1.77E+15	1.75E+15	1.72E+15	1.67E+15	1.58E+15
2	5.00E-02	1.00E-01	4.99E+14	4.95E+14	4.88E+14	4.76E+14	4.53E+14
3	1.00E-01	2.00E-01	3.53E+14	3.50E+14	3.44E+14	3.32E+14	3.11E+14
4	2.00E-01	3.00E-01	1.06E+14	1.05E+14	1.04E+14	1.00E+14	9.46E+13
5	3.00E-01	4.00E-01	7.03E+13	6.98E+13	6.87E+13	6.68E+13	6.33E+13
6	4.00E-01	6.00E-01	1.93E+14	1.81E+14	1.61E+14	1.29E+14	8.83E+13
7	6.00E-01	8.00E-01	3.16E+15	3.13E+15	3.08E+15	2.98E+15	2.80E+15
8	8.00E-01	1.00E+00	1.02E+14	9.64E+13	8.64E+13	7.04E+13	4.94E+13
9	1.00E+00	1.33E+00	6.60E+13	6.45E+13	6.16E+13	5.64E+13	4.77E+13
10	1.33E+00	1.66E+00	7.99E+12	7.59E+12	6.89E+12	5.75E+12	4.23E+12
11	1.66E+00	2.00E+00	2.01E+11	1.96E+11	1.88E+11	1.77E+11	1.63E+11
12	2.00E+00	2.50E+00	3.68E+10	3.18E+10	2.44E+10	1.59E+10	9.85E+09
13	2.50E+00	3.00E+00	2.32E+09	2.00E+09	1.52E+09	9.26E+08	4.75E+08
14	3.00E+00	4.00E+00	2.19E+08	1.89E+08	1.43E+08	8.66E+07	4.21E+07
15	4.00E+00	5.00E+00	1.07E+07	1.06E+07	1.04E+07	1.00E+07	9.30E+06
16	5.00E+00	6.50E+00	4.29E+06	4.25E+06	4.17E+06	4.02E+06	3.73E+06
17	6.50E+00	8.00E+00	8.42E+05	8.34E+05	8.19E+05	7.89E+05	7.32E+05
18	8.00E+00	1.00E+01	1.79E+05	1.77E+05	1.74E+05	1.67E+05	1.55E+05
Total	-	-	6.33E+15	6.25E+15	6.12E+15	5.89E+15	5.50E+15

Table 7-10 20 Years of Initial Decay Source Term (20Y 1.out and 20Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			20 years	20.75 years	20.83 years	20.92 years	21 years
1	1.00E-02	5.00E-02	1.10E+15	1.08E+15	1.08E+15	1.07E+15	1.07E+15
2	5.00E-02	1.00E-01	3.21E+14	3.16E+14	3.15E+14	3.14E+14	3.14E+14
3	1.00E-01	2.00E-01	2.10E+14	2.05E+14	2.05E+14	2.04E+14	2.04E+14
4	2.00E-01	3.00E-01	6.45E+13	6.32E+13	6.31E+13	6.29E+13	6.28E+13
5	3.00E-01	4.00E-01	4.38E+13	4.30E+13	4.29E+13	4.28E+13	4.27E+13
6	4.00E-01	6.00E-01	3.86E+13	3.65E+13	3.64E+13	3.61E+13	3.59E+13
7	6.00E-01	8.00E-01	1.99E+15	1.95E+15	1.95E+15	1.94E+15	1.94E+15
8	8.00E-01	1.00E+00	2.02E+13	1.88E+13	1.87E+13	1.85E+13	1.84E+13
9	1.00E+00	1.33E+00	2.44E+13	2.31E+13	2.30E+13	2.28E+13	2.27E+13
10	1.33E+00	1.66E+00	1.89E+12	1.77E+12	1.76E+12	1.75E+12	1.74E+12
11	1.66E+00	2.00E+00	1.12E+11	1.10E+11	1.09E+11	1.09E+11	1.09E+11
12	2.00E+00	2.50E+00	5.74E+09	5.62E+09	5.61E+09	5.60E+09	5.58E+09
13	2.50E+00	3.00E+00	1.91E+08	1.89E+08	1.88E+08	1.87E+08	1.88E+08
14	3.00E+00	4.00E+00	1.56E+07	1.50E+07	1.50E+07	1.49E+07	1.49E+07
15	4.00E+00	5.00E+00	5.11E+06	4.97E+06	4.96E+06	4.94E+06	4.93E+06
16	5.00E+00	6.50E+00	2.05E+06	2.00E+06	1.99E+06	1.98E+06	1.98E+06
17	6.50E+00	8.00E+00	4.02E+05	3.91E+05	3.90E+05	3.89E+05	3.88E+05
18	8.00E+00	1.00E+01	8.54E+04	8.31E+04	8.28E+04	8.26E+04	8.23E+04
Total	-	-	3.81E+15	3.73E+15	3.73E+15	3.72E+15	3.71E+15

Table 7-10 (cont'd) 20 Years of Initial Decay Source Term (20Y 1.out and 20Y 2.out)

Group	Lower Bound (MeV)	Upper Bound (MeV)	Source Strength at Each Decay Time (photons/sec/MTU)				
			21.25 years	21.5 years	22 years	23 years	25 years
1	1.00E-02	5.00E-02	1.06E+15	1.06E+15	1.04E+15	1.02E+15	9.69E+14
2	5.00E-02	1.00E-01	3.12E+14	3.11E+14	3.07E+14	3.01E+14	2.88E+14
3	1.00E-01	2.00E-01	2.02E+14	2.01E+14	1.98E+14	1.92E+14	1.82E+14
4	2.00E-01	3.00E-01	6.24E+13	6.19E+13	6.11E+13	5.95E+13	5.64E+13
5	3.00E-01	4.00E-01	4.24E+13	4.22E+13	4.17E+13	4.06E+13	3.86E+13
6	4.00E-01	6.00E-01	3.54E+13	3.48E+13	3.38E+13	3.20E+13	2.92E+13
7	6.00E-01	8.00E-01	1.93E+15	1.92E+15	1.89E+15	1.85E+15	1.76E+15
8	8.00E-01	1.00E+00	1.80E+13	1.76E+13	1.69E+13	1.56E+13	1.35E+13
9	1.00E+00	1.33E+00	2.23E+13	2.19E+13	2.11E+13	1.96E+13	1.70E+13
10	1.33E+00	1.66E+00	1.71E+12	1.67E+12	1.61E+12	1.50E+12	1.32E+12
11	1.66E+00	2.00E+00	1.08E+11	1.08E+11	1.06E+11	1.04E+11	9.84E+10
12	2.00E+00	2.50E+00	5.55E+09	5.51E+09	5.44E+09	5.30E+09	5.04E+09
13	2.50E+00	3.00E+00	1.87E+08	1.86E+08	1.85E+08	1.82E+08	1.78E+08
14	3.00E+00	4.00E+00	1.47E+07	1.45E+07	1.42E+07	1.37E+07	1.27E+07
15	4.00E+00	5.00E+00	4.88E+06	4.84E+06	4.75E+06	4.58E+06	4.26E+06
16	5.00E+00	6.50E+00	1.96E+06	1.94E+06	1.91E+06	1.84E+06	1.71E+06
17	6.50E+00	8.00E+00	3.84E+05	3.81E+05	3.74E+05	3.60E+05	3.35E+05
18	8.00E+00	1.00E+01	8.16E+04	8.08E+04	7.93E+04	7.65E+04	7.11E+04
Total	-	-	3.69E+15	3.66E+15	3.62E+15	3.53E+15	3.36E+15

7.5 MCNP5 Input Development

This section describes the computations required to perform this evaluation.

7.5.1 Fuel Assembly and SFP Geometry Calculations

Values requiring further calculation using design inputs or assumptions are shown below. Note, calculated values may differ slightly from as-presented equations due to rounding in Excel.

Because the SFP model origin is at elevation 816.25 feet (Table 5-3), the pool liner is below the model origin and extends from -0.635 cm (1/4 in) to 0 cm.

The SFP rack size of 39 x 79 was calculated based on the maximum number of assemblies that can fit in the SFP using the rack pitch and nominal dimensions. This results in 3081 spaces. Since only 2123 assemblies are modeled (Table 7-2), 958 spaces are left empty. The actual licensed number of assemblies is 2411 (Reference 3.8, Section 9.1.2.2.1).

$$\begin{aligned} \text{Max Number of Assemblies Long} &= \frac{\text{Nominal Pool Length (in)}(\text{Table 5 - 3})}{\text{Rack Pitch (in)}(\text{Table 5 - 2})} \\ &= \text{trunc}\left(\frac{480 \text{ in}}{6.06 \text{ in}}\right) = 79 \text{ Assemblies} \end{aligned}$$

$$\begin{aligned} \text{Max Number of Assemblies Wide} &= \frac{\text{Nominal Pool Width (in)}(\text{Table 5 - 3})}{\text{Rack Pitch (in)}(\text{Table 5 - 2})} \\ &= \text{trunc}\left(\frac{240 \text{ in}}{6.06 \text{ in}}\right) = 39 \text{ Assemblies} \end{aligned}$$

Upper Hardware Height (cm)

$$\begin{aligned}
 &= \text{Assembly Height (in)}(\text{Table 5 - 1}) \\
 &- \text{Active Fuel Length (in)}(\text{Table 5 - 1}) \\
 &- \text{Lower Height (in)}(\text{Table 5 - 1}) = 176.18 \text{ in} - 150.00 \text{ in} - 7.436 \text{ in} \\
 &= 47.61 \text{ cm}
 \end{aligned}$$

7.5.2 Upper Hardware Material Description

The upper hardware region is a mixture of stainless steel and void, for modelling simplicity a homogenized material is used to represent this region of the assembly. To homogenize the upper hardware region, the mass of steel is distributed throughout the total volume. The calculation of the volume of the upper region and the homogenized density are shown below. The resultant weight fractions for the upper hardware region are the same as steel (see Table 5-4), but the density is reduced due to the void that occupies the rest of the region. Note, calculated values may differ slightly from as-presented equations due to rounding in Excel.

Fuel upper region volume

$$\begin{aligned}
 &= (\text{Fuel Rod Pitch (Table 5 - 1)} \times 10 \text{ rods on each side})^2 \\
 &\times \text{Upper Hardware Height} = (1.295 \text{ cm} \times 10)^2 \times 47.61 \text{ cm} \\
 &= 7984.32 \text{ cm}^3
 \end{aligned}$$

$$\begin{aligned}
 \text{Fuel upper region density} &= \frac{\text{Fuel Upper Region Steel Mass (Table 5 - 1)}}{\text{Fuel Upper Region Volume}} = \frac{4.32 \text{ kg}}{7984.32 \text{ cm}^3} \\
 &= 0.54 \frac{\text{g}}{\text{cm}^3}
 \end{aligned}$$

7.6 Determine Flux at the Top of SFP Using MCNP5

7.6.1 Geometry Characterization

The MCNP5 models of the fuel, spent fuel rack, and spent fuel pool use the universe structure option to simplify the geometric description. Beginning with the containing universe, the “fill” option is used to fill finite pieces of the geometry with infinite universes.

Each universe is constructed by alternatively defining surfaces and cells for each universe. In the input file, the required order is cells followed by surfaces. In the following sections, an inverse presentation will be used to provide the intuitive progression of surface to cell. All of the dimensions are defined in terms of x, y, and z coordinates. The origin of the system is at the center of the spent fuel pool in the x and y direction and at the bottom of the pool (water level 0') in the z direction.

Fuel Rod Model

Based on the fuel assembly details described in Table 5-1 and rack details in Table 5-2, the fuel rod universe is a simple model of a UO₂ cylindrical rod surrounded by a void gap, Zirc-2 cladding, and void outside the cladding that spans the length of the active fuel region. Therefore, the fuel rod universe is constructed using 3 surfaces and 4 cells, as shown in Figure 7-2 and Figure 7-3, respectively. The material numbers and respective densities in the cell definitions are taken from the material listing in Table 5-4.

Figure 7-2 MCNP5 Model of Fuel Rod Surfaces

1	rec	0 0	48.097	0 0	381	0.444	\$ Active Fuel
2	rec	0 0	48.097	0 0	381	0.453	\$ Clad Interior
3	rec	0 0	48.097	0 0	381	0.513	\$ Clad Exterior

Figure 7-3 MCNP5 Model of Fuel Rod Cells

1	1	-10.41	-1	u=1	imp:p=1	\$ Fuel rod
2	0	+1	-2	u=1	imp:p=1	\$ Gap
3	2	-6.56	+2	-3	u=1	imp:p=1 \$ Cladding
4	0	+3	u=1	imp:p=1	\$ Void outside fuel rod	

Water Rod Model

Every fuel assembly contains two water rods, which are modeled as Zirc-2 cylinders. The water rods are modeled in the same universe, universe 4, as the fuel assembly. The water rods are modeled using 2 surfaces and 4 cells and filled with void, as shown in Figure 7-4 and Figure 7-5, respectively. Surfaces 8 and 9 in Figure 7-8 are the upper and lower cut planes for the water rods. The “trcl” is a cell transformation used to translate the water rod cell into the correct location.

Figure 7-4 MCNP5 Model of Water Rod Surfaces

4	rcc	0	0	48.097	0	0	381	1.1685	\$ Water Rod Interior
5	rcc	0	0	48.097	0	0	381	1.2445	\$ Water Rod Exterior

Figure 7-5 MCNP5 Model of Water Rod Cells

5	0	-4	+8	-9	trcl	(-1.295	1.295	0)	u=4	imp:p=1	\$ Inside water rod		
6	2	-6.56	+4	-5	+8	-9	trcl	(-1.295	1.295	0)	u=4	imp:p=1	\$ Water rod
7	like	5	but	trcl	(1.295	-1.295	0)	u=4	imp:p=1	\$ Inside water rod			
8	like	6	but	trcl	(1.295	-1.295	0)	u=4	imp:p=1	\$ Water rod			

Single Fuel Assembly Model

Other than the fuel rods, which fill the single fuel assembly lattice structure, the single fuel assembly model contains the homogenized upper hardware region, lower hardware region, and the void between the fuel rods. Spacer material is not included in the model. The active fuel region contains the fuel rod lattice structure universe (universe 3), which fills the greater fuel assembly universe (universe 4). The greater fuel assembly universe (universe 4) also contains the water rods and the upper and lower hardware regions. The fuel rod lattice structure universe is constructed using a single surface and a single cell, as shown in Figure 7-6 and Figure 7-7, respectively. The greater fuel assembly model is constructed using 2 surfaces and 3 cells and is filled with the fuel rod lattice structure universe, as shown in Figure 7-8 and Figure 7-9, respectively. The material numbers and respective densities in the cell definitions are taken from the material listing in Table 5-4 and homogenization performed in Section 7.5.2.

Figure 7-6 MCNP5 Model of Active Fuel Region Lattice Structure Surface

6	rpp	-0.6475	0.6475	-0.6475	0.6475	48.097	429.097	\$ Pin Cell
---	-----	---------	--------	---------	--------	--------	---------	-------------

Figure 7-7 MCNP5 Model of Active Fuel Region Lattice Structure Cells

```

11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0
  1 1 1 1 1 1 1 1 1 1
  1 1 1 1 1 1 1 1 1 1
  1 1 1 1 1 1 1 1 1 1
  1 1 1 1 1 3 3 1 1 1
  1 1 1 1 1 3 3 1 1 1
  1 1 1 3 3 1 1 1 1 1
  1 1 1 3 3 1 1 1 1 1
  1 1 1 1 1 1 1 1 1 1
  1 1 1 1 1 1 1 1 1 1
  1 1 1 1 1 1 1 1 1 1 imp:p=1
    
```

Figure 7-8 MCNP5 Model of Single Fuel Assembly Surfaces

```

8 pz 48.097      $ Lower Nozzle and Plenum Cut Plane
9 pz 429.097    $ Upper Nozzle and Plenum Cut Plane
    
```

Figure 7-9 MCNP5 Model of Single Fuel Assembly Cells

```

20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 $ Active fuel zone
21 0 -8 u=4 imp:p=1 $ Lower nozzle
22 3 -0.54 +9 u=4 imp:p=1 $ Upper nozzle
    
```

Single SFP Rack Model

The single SFP rack model is constructed using seven distinct universes composed of four cells each. These seven universes are needed to differentiate between the assemblies that have decayed for the 0 years, 2 years, 4 years, 6 years, 10 years, 20 years, or empty rack location groups. These universes are identical dimensionally. Each rack universe is filled by the fuel assembly universe as well as the void surrounding the assembly and the rack walls. The rack universes are created using 4 surfaces and 4 cells for each group and are shown in Figure 7-10 and Figure 7-11, respectively. The assembly surface is a right parallelepiped ten times the rod pitch. Each location in the SFP rack is a right parallelepiped the width of a rack opening minus the rack thickness. The pool outer dimensions are used to create the rack array boundary (surface 12).

The parameters needed to model a single rack assembly are taken from Table 5-2.

Figure 7-10 MCNP5 Model of SFP Rack Surfaces

```

7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707    $ Assembly Envelope
10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47    $ Rack Interior
12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707    $ Rack Array Boundary
13 pz 458.47      $ Rack Top Cut Plane
    
```

Figure 7-11 MCNP5 Model of SFP Rack Cells

```

c Rack Array
24 0 -7 fill=4 u=5 imp:p=1 $ Cooled 0 yrs inside assembly
25 0 +7 -10 u=5 imp:p=1 $ Cooled 0 yrs void outside assembly
26 3 -7.94 +10 -13 u=5 imp:p=1 $ Cooled 0 yrs fuel
30 0 +10 +13 #24 u=5 imp:p=1 $ Cooled 0 yrs void directly above racks
124 0 -7 fill=4 u=6 imp:p=1 $ Cooled 2 yrs inside assembly
125 0 +7 -10 u=6 imp:p=1 $ Cooled 2 yrs void outside assembly
126 3 -7.94 +10 -13 u=6 imp:p=1 $ Cooled 2 yrs fuel
130 0 +10 +13 #124 u=6 imp:p=1 $ Cooled 2 yrs void directly above racks
224 0 -7 fill=4 u=7 imp:p=1 $ Cooled 4 yrs inside assembly
225 0 +7 -10 u=7 imp:p=1 $ Cooled 4 yrs void outside assembly
226 3 -7.94 +10 -13 u=7 imp:p=1 $ Cooled 4 yrs fuel
230 0 +10 +13 #224 u=7 imp:p=1 $ Cooled 4 yrs void directly above racks
324 0 -7 fill=4 u=8 imp:p=1 $ Cooled 6 yrs inside assembly
325 0 +7 -10 u=8 imp:p=1 $ Cooled 6 yrs void outside assembly
326 3 -7.94 +10 -13 u=8 imp:p=1 $ Cooled 6 yrs fuel
330 0 +10 +13 #324 u=8 imp:p=1 $ Cooled 6 yrs void directly above racks
424 0 -7 fill=4 u=9 imp:p=1 $ Cooled 10 yrs inside assembly
425 0 +7 -10 u=9 imp:p=1 $ Cooled 10 yrs void outside assembly
426 3 -7.94 +10 -13 u=9 imp:p=1 $ Cooled 10 yrs fuel
430 0 +10 +13 #424 u=9 imp:p=1 $ Cooled 10 yrs void directly above racks
524 0 -7 fill=4 u=10 imp:p=1 $ Cooled 20 yrs inside assembly
525 0 +7 -10 u=10 imp:p=1 $ Cooled 20 yrs void outside assembly
526 3 -7.94 +10 -13 u=10 imp:p=1 $ Cooled 20 yrs fuel
530 0 +10 +13 #524 u=10 imp:p=1 $ Cooled 20 yrs void directly above racks
624 0 -7 u=11 imp:p=1 $ No assembly
625 0 +7 -10 u=11 imp:p=1 $ No assembly void outside assembly
626 3 -7.94 +10 -13 u=11 imp:p=1 $ No assembly Fuel
630 0 +10 +13 #624 u=11 imp:p=1 $ No assembly void directly above racks

```

SFP Rack Lattice Structure Model

The SFP racks lattice structure model is constructed using a single universe. This universe contains a lattice structure of a single simple surface and cell that is filled by either a fuel assembly that has initially decayed for 0 years, 2 years, 4 years, 6 years, 10 years, 20 years, or an empty rack. The SFP racks lattice structure surface and cell are in Figure 7-12 and Figure 7-13, respectively.

SFP racks lattice structure model parameters are taken from Table 5-2 and Table 5-3, respectively.

Figure 7-12 MCNP5 Model of Active Fuel Region Lattice Structure Surface

```

11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 $ Rack Envelope

```


Figure 7-13 MCNP5 Model of Active Fuel Region Lattice Structure Cells

```

27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0
  11 478R $ 479 empty rack cells
  10 548R $ 549 cooled 20 yrs
  9 640R $ 641 cooled 10 yrs
  8 260R $ 261 cooled 6 yrs
  7 151R $ 152 cooled 4 yrs
  6 151R $ 152 cooled 2 yrs
  5 367R $ 368 cooled 1 yr
  11 478R imp:p=1 $ 479 empty rack cells

```

SFP Area Model

The SFP area model contains the SFP liner, void on the outside of the racks, surrounding concrete, and the space above the SFP racks. The location where the rack area is located is filled with the SFP rack universe while everything else is located in the “master” universe. The model contains no water in the SFP or around the assemblies. The SFP area model is constructed using a single “master” universe. The SFP area model is created using 6 surfaces and 8 cells and is shown in Figure 7-14 and Figure 7-15, respectively. Pool dimensions are from Table 5-3. Surface 500 is the plane 30 cm from the top of the SFP to determine the flux across. Note, calculated values may differ slightly due to rounding in Excel.

Figure 7-14 MCNP5 Model of SFP Area Surfaces

```

c Pool
20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 $ Spent Fuel Pool
23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 $ Pool Liner
24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 $ Pool Concrete
26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 $ Space Above Pool
500 pz 1161.1584 $ Top of Pool -30 cm
c Universe
999 rpp -5000 5000 -5000 5000 -5000 5000 $ Universe

```

Figure 7-15 MCNP5 Model of SFP Area Cells

```

28 0 -12 fill=13 imp:p=1 $ Rack array
41 0 -20 -500 #28 imp:p=1 $ Pool
42 0 -20 +500 imp:p=1 $ Air space within pool
43 3 -7.94 +20 -23 imp:p=1 $ Pool liner
44 4 -2.3 +23 -24 imp:p=1 $ Concrete surrounding pool
46 0 -26 imp:p=1 $ Space above pool
47 0 +24 +26 -999 imp:p=1 $ Exterior
999 0 +999 imp:p=0 $ Universe

```

7.6.2 MCNP5 File Naming

MCNP5 cases are developed for the SFP based on initial decay time as indicated by the naming scheme below:

<decay time after Cycle 27 discharges><.i for input or .o for output>

The MCNP5 input files and the fuel cool times in each are identified in Table 7-11.

Table 7-11 MCNP5 Input Files

Input File Name	Years After Shutdown	Fuel Cool Times Included
75Y	0.75 year	0.75 year
		2.75 years
		4.75 years
		6.75 years
		10.75 years
		20.75 years
83Y	0.83 year	0.83 year
		2.83 years
		4.83 years
		6.83 years
		10.83 years
		20.83 years
92Y	0.92 year	0.92 year
		2.92 years
		4.92 years
		6.92 years
		10.92 years
		20.92 years
1Y	1 year	1 year
		3 years
		5 years
		7 years
		11 years
		21 years
125Y	1.25 years	1.25 years
		3.25 years
		5.25 years
		7.25 years
		11.25 years
		21.25 years
15Y	1.5 years	1.5 years
		3.5 years
		5.5 years
		7.5 years
		11.5 years
		21.5 years
2Y	2 years	2 years
		4 years
		6 years
		8 years
		12 years
		22 years
3Y	3 years	3 years
		5 years
		7 years
		9 years
		13 years
		23 years
5Y	5 years	5 years
		7 years
		9 years
		11 years
		15 years
		25 years

7.6.3 MCNP5 Source Description

The geometric description of a source region involves both its spatial extent and a characterization of the material present in the region.

Two cards are required to define the source using MCNP5. In the “sdef” card, the spatial, energy, and cell distributions are defined. The spatial description is given in the coordinate system of the fuel assembly universes. The source cells are mapped using the “cel” option and separate sources for each of the decay times are applied to the different assemblies. The source strength is defined on the tally card(s).

7.6.4 MCNP5 SDEF

The six different initial decay groups (0 year, 2 years, 4 years, 6 years, 10 years, and 20 years) are arranged in the SFP in six distinct areas. The regions, decay times, number of assemblies, “sdef” source distribution, and universe number are shown in Figure 7-16. The dimensions used in the “sdef” are from Table 5-1.

The 0.75-year decayed source definition is shown in Figure 7-17, which has distinct energy distributions and source probabilities for each of the six groups. The “cel” distribution refers to each individual cell that contains a source and specifies the source probabilities. The “pos” is the reference point for the sampling position. The “rad” is the radial distance from “axs”. The “ext” is the distance from “pos” along “axs”. The “axs” is the reference vector for “ext” and “rad”, which is along the fuel pin on the z axis. The energy distribution, “sdef erg” changes depending on the decay time. Figure 7-16 presents a cartoon of the spent fuel groups, applicable cells, universes, energy distribution, and number of assemblies.

The source probabilities specified in the “cel” distribution are based on the fraction of photons emitted by a decay group divided by the total photons emitted for all groups. As such, each MCNP5 run has six source probabilities, one for each of the 0 year, 2 years, 4 years, 6 years, 10 years, and 20 years groups. An example of the 0.75 year group decayed source probability derivation is shown below, where photon totals are taken from Table 7-5 through Table 7-10. Note, calculated values may differ slightly from as-presented equations due to rounding in Excel.

Source Probability

$$\begin{aligned}
&= (368 \text{ assy}) \left(\frac{6.60E16 \frac{p}{s}}{MTU} \text{ total from Table 7 - 5} \right) \left(0.1857 \frac{MTU}{\text{assy}} \right) \\
&\div \left((368 \text{ assy}) \left(\frac{6.60E16 \frac{p}{s}}{MTU} \text{ total from Table 7 - 5} \right) \left(0.1857 \frac{MTU}{\text{assy}} \right) \right. \\
&+ (152 \text{ assy}) \left(\frac{2.37E16 \frac{p}{s}}{MTU} \text{ total from Table 7 - 6} \right) \left(0.1859 \frac{MTU}{\text{assy}} \right) \\
&+ (152 \text{ assy}) \left(\frac{1.30E16 \frac{p}{s}}{MTU} \text{ total from Table 7 - 7} \right) \left(0.1832 \frac{MTU}{\text{assy}} \right) \\
&+ (261 \text{ assy}) \left(\frac{9.50E15 \frac{p}{s}}{MTU} \text{ total from Table 7 - 8} \right) \left(0.1793 \frac{MTU}{\text{assy}} \right) \\
&+ (641 \text{ assy}) \left(\frac{6.48E15 \frac{p}{s}}{MTU} \text{ total from Table 7 - 9} \right) \left(0.1789 \frac{MTU}{\text{assy}} \right) \\
&\left. + (549 \text{ assy}) \left(\frac{3.73E15 \frac{p}{s}}{MTU} \text{ total from Table 7 - 10} \right) \left(0.1795 \frac{MTU}{\text{assy}} \right) \right) = 0.6354
\end{aligned}$$

The resulting source probabilities are presented in Table 7-12. All of the MCNP5 input files are included in Attachment 2.

Table 7-12 MCNP5 Source Probabilities

Decay Time	Group	# Assemblies	MTU	Source Total from Tables 7-5 through 7-10	Photons/sec/group	Source Probability
		A	B	C	D=A×B×C	E = D _i /(sum(D))
0.75 Year	1Y	368	0.1857	6.60E+16	4.51E+18	0.6354
	2Y	152	0.1859	2.37E+16	6.69E+17	0.0943
	4Y	152	0.1832	1.30E+16	3.62E+17	0.0510
	6Y	261	0.1793	9.50E+15	4.45E+17	0.0627
	10Y	641	0.1789	6.48E+15	7.43E+17	0.1047
	20Y	549	0.1795	3.73E+15	3.68E+17	0.0519
0.83 Year	1Y	368	0.1857	6.06E+16	4.14E+18	0.6186
	2Y	152	0.1859	2.30E+16	6.49E+17	0.0970
	4Y	152	0.1832	1.28E+16	3.56E+17	0.0532
	6Y	261	0.1793	9.41E+15	4.41E+17	0.0658
	10Y	641	0.1789	6.45E+15	7.40E+17	0.1106
	20Y	549	0.1795	3.73E+15	3.67E+17	0.0549
0.92 Year	1Y	368	0.1857	5.56E+16	3.80E+18	0.6016
	2Y	152	0.1859	2.22E+16	6.27E+17	0.0993
	4Y	152	0.1832	1.26E+16	3.49E+17	0.0553
	6Y	261	0.1793	9.32E+15	4.36E+17	0.0690
	10Y	641	0.1789	6.43E+15	7.37E+17	0.1167
	20Y	549	0.1795	3.72E+15	3.66E+17	0.0580
1 Year	1Y	368	0.1857	5.19E+16	3.54E+18	0.5879
	2Y	152	0.1859	2.16E+16	6.09E+17	0.1010
	4Y	152	0.1832	1.24E+16	3.44E+17	0.0570
	6Y	261	0.1793	9.23E+15	4.32E+17	0.0717
	10Y	641	0.1789	6.40E+15	7.34E+17	0.1217
	20Y	549	0.1795	3.71E+15	3.66E+17	0.0606
1.25 Years	1Y	368	0.1857	4.30E+16	2.94E+18	0.5512
	2Y	152	0.1859	1.97E+16	5.58E+17	0.1045
	4Y	152	0.1832	1.18E+16	3.28E+17	0.0614
	6Y	261	0.1793	8.99E+15	4.21E+17	0.0789
	10Y	641	0.1789	6.33E+15	7.25E+17	0.1359
	20Y	549	0.1795	3.69E+15	3.63E+17	0.0681
1.5 Years	1Y	368	0.1857	3.68E+16	2.51E+18	0.5202
	2Y	152	0.1859	1.82E+16	5.14E+17	0.1065
	4Y	152	0.1832	1.13E+16	3.14E+17	0.0650
	6Y	261	0.1793	8.77E+15	4.11E+17	0.0850
	10Y	641	0.1789	6.25E+15	7.17E+17	0.1485
	20Y	549	0.1795	3.66E+15	3.61E+17	0.0748
2 Years	1Y	368	0.1857	2.80E+16	1.91E+18	0.4670
	2Y	152	0.1859	1.57E+16	4.44E+17	0.1084
	4Y	152	0.1832	1.04E+16	2.90E+17	0.0708
	6Y	261	0.1793	8.38E+15	3.92E+17	0.0957
	10Y	641	0.1789	6.12E+15	7.02E+17	0.1712
	20Y	549	0.1795	3.62E+15	3.56E+17	0.0870
3 Years	1Y	368	0.1857	1.81E+16	1.23E+18	0.3823
	2Y	152	0.1859	1.25E+16	3.52E+17	0.1091
	4Y	152	0.1832	9.18E+15	2.56E+17	0.0792
	6Y	261	0.1793	7.77E+15	3.64E+17	0.1126
	10Y	641	0.1789	5.89E+15	6.75E+17	0.2091
	20Y	549	0.1795	3.53E+15	3.48E+17	0.1077
5 Years	1Y	368	0.1857	1.03E+16	7.03E+17	0.2850
	2Y	152	0.1859	9.27E+15	2.62E+17	0.1062
	4Y	152	0.1832	7.73E+15	2.15E+17	0.0873
	6Y	261	0.1793	6.93E+15	3.24E+17	0.1316
	10Y	641	0.1789	5.50E+15	6.30E+17	0.2557
	20Y	549	0.1795	3.36E+15	3.31E+17	0.1342

Figure 7-16 Fuel Pool Source Arrangement Cartoon
SFP Length

SFP Width	empty cells	479 rack locations	
	cell 624	u=11	
	0 yr cooled	368 assemblies	d5
	cell 24	u=5	
	2 yr cooled	152 assemblies	d6
	cell 124	u=6	
	4 yr cooled	152 assemblies	d7
	cell 224	u=7	
	6 yr cooled	261 assemblies	d8
	cell 324	u=8	
10 yr cooled	641 assemblies	d9	
cell 424	u=9		
20 yr cooled	549 assemblies	d10	
cell 524	u=10		
empty cells	479 rack locations		
cell 624	u=11		

Figure 7-17 Fuel Gamma Source Definition (0.75 Year)

```

c Source Specification
mode p
sdef erg=fcel=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1
  cel =d4
ds1 s d5 d6 d7 d8 d9 d10
si2 0 0.4439
sp2 -21 1
si3 -190.499 190.499
sp3 0 1
si4 1 28:27:24:20:11:1
  28:27:124:20:11:1
  28:27:224:20:11:1
  28:27:324:20:11:1
  28:27:424:20:11:1
  28:27:524:20:11:1
sp4 0.6354 0.0943 0.051 0.0627 0.1047 0.0519
c 0 yrs gamma
si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
  8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
  4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp5 0.00E+00 2.13E+16 6.96E+15 7.06E+15 1.74E+15 1.35E+15 7.11E+15
  1.73E+16 2.09E+15 6.02E+14 2.67E+14 3.72E+13 1.56E+14 2.32E+12
  2.06E+11 1.18E+07 4.74E+06 9.30E+05 1.97E+05
c 2 yrs gamma
si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
  8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
  4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp6 0.00E+00 6.48E+15 2.02E+15 1.83E+15 4.94E+14 3.70E+14 3.47E+15
  7.21E+15 1.33E+15 3.08E+14 1.17E+14 9.77E+12 2.82E+13 6.87E+11
  6.27E+10 1.94E+07 7.79E+06 1.53E+06 3.24E+05
    
```

Figure 7-17 (cont'd) Fuel Gamma Source Definition (0.75 Year)

```

c 4 yrs gamma
si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
    8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
    4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp7 0.00E+00 3.21E+15 9.30E+14 7.52E+14 2.14E+14 1.50E+14 1.56E+15
    5.27E+15 6.76E+14 1.74E+14 5.22E+13 2.49E+12 5.29E+12 1.73E+11
    1.60E+10 1.66E+07 6.68E+06 1.31E+06 2.78E+05
c 6 yrs gamma
si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
    8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
    4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp8 0.00E+00 2.40E+15 6.72E+14 5.07E+14 1.49E+14 9.92E+13 7.86E+14
    4.37E+15 3.70E+14 1.22E+14 2.74E+13 7.74E+11 1.03E+12 4.48E+10
    4.17E+09 1.54E+07 6.18E+06 1.21E+06 2.57E+05
c 10 yrs gamma
si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
    8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
    4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp9 0.00E+00 1.80E+15 5.06E+14 3.60E+14 1.08E+14 7.15E+13 2.19E+14
    3.22E+15 1.15E+14 6.92E+13 8.87E+12 2.13E+11 5.01E+10 3.13E+09
    2.96E+08 1.09E+07 4.37E+06 8.58E+05 1.82E+05
c 20 yrs gamma
si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
    8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
    4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp10 0.00E+00 1.08E+15 3.16E+14 2.05E+14 6.32E+13 4.30E+13 3.65E+13
    1.95E+15 1.88E+13 2.31E+13 1.77E+12 1.10E+11 5.62E+09 1.89E+08
    1.50E+07 4.97E+06 2.00E+06 3.91E+05 8.31E+04

```

7.6.5 MCNP5 Tally Multipliers

Tally multipliers are used to relate the MCNP5 tally result into the units desired by the analyst. In this case, the MCNP5 tally results in photons/cm²/source particle and the tally multiplier converts the result into photons/s/cm² above the SFP. The source terms in Table 7-12 are used to determine tally multipliers for the MCNP5 models in the tally card(s). The photons/second/group in Table 7-12 are summed to produce the tally multipliers in Table 7-13.

Table 7-13 MCNP5 Tally Multipliers

Decay Time	Group	Photons/sec/group from Table 7-12	Total Tally Multiplier
0.75 Year	1Y	4.51E+18	7.09E+18
	2Y	6.69E+17	
	4Y	3.62E+17	
	6Y	4.45E+17	
	10Y	7.43E+17	
	20Y	3.68E+17	
0.83 Year	1Y	4.14E+18	6.69E+18
	2Y	6.49E+17	
	4Y	3.56E+17	
	6Y	4.41E+17	
	10Y	7.40E+17	
	20Y	3.67E+17	
0.92 Year	1Y	3.80E+18	6.31E+18
	2Y	6.27E+17	
	4Y	3.49E+17	
	6Y	4.36E+17	
	10Y	7.37E+17	
	20Y	3.66E+17	
1 Year	1Y	3.54E+18	6.03E+18
	2Y	6.09E+17	
	4Y	3.44E+17	
	6Y	4.32E+17	
	10Y	7.34E+17	
	20Y	3.66E+17	
1.25 Years	1Y	2.94E+18	5.34E+18
	2Y	5.58E+17	
	4Y	3.28E+17	
	6Y	4.21E+17	
	10Y	7.25E+17	
	20Y	3.63E+17	
1.5 Years	1Y	2.51E+18	4.83E+18
	2Y	5.14E+17	
	4Y	3.14E+17	
	6Y	4.11E+17	
	10Y	7.17E+17	
	20Y	3.61E+17	
2 Years	1Y	1.91E+18	4.10E+18
	2Y	4.44E+17	
	4Y	2.90E+17	
	6Y	3.92E+17	
	10Y	7.02E+17	
	20Y	3.56E+17	
3 Years	1Y	1.23E+18	3.23E+18
	2Y	3.52E+17	
	4Y	2.56E+17	
	6Y	3.64E+17	
	10Y	6.75E+17	
	20Y	3.48E+17	
5 Years	1Y	7.03E+17	2.47E+18
	2Y	2.62E+17	
	4Y	2.15E+17	
	6Y	3.24E+17	
	10Y	6.30E+17	
	20Y	3.31E+17	

7.6.6 Detector Description

The MCNP5 model uses an “f2” tally to determine the flux across the plane at the top of the SFP. The “f2” tally is a surface flux tally and provides results of photons/area. The cross section of the top of the SFP is computed in MCNP5 using surface 500 as: 240 in x 480 in (Table 5-3) = 115,200 in² = 7.43224E+05 cm², which matches the area in the MCNP5 outputs. The tally multiplier applied in the “f2” tallies are from Table 7-13.

Figure 7-18 MCNP5 Model of SFP Area Cells (0.75 Year)

c Tally Cards
 fc2 Surface Detector at Top of Pool -30 cm (surface 500)
 f2:p 500
 fm2 7.09E+18

7.6.7 MCNP5 Visual Representation of the Model

The following figures show a visual representation of the MCNP5 model, where blue represents fuel rods, green is the fuel rod cladding, yellow is the SFP racks, white is the void around the assembly, and red is concrete.

Figure 7-19 MCNP5 Visual Model of the Fuel Assembly Lattice

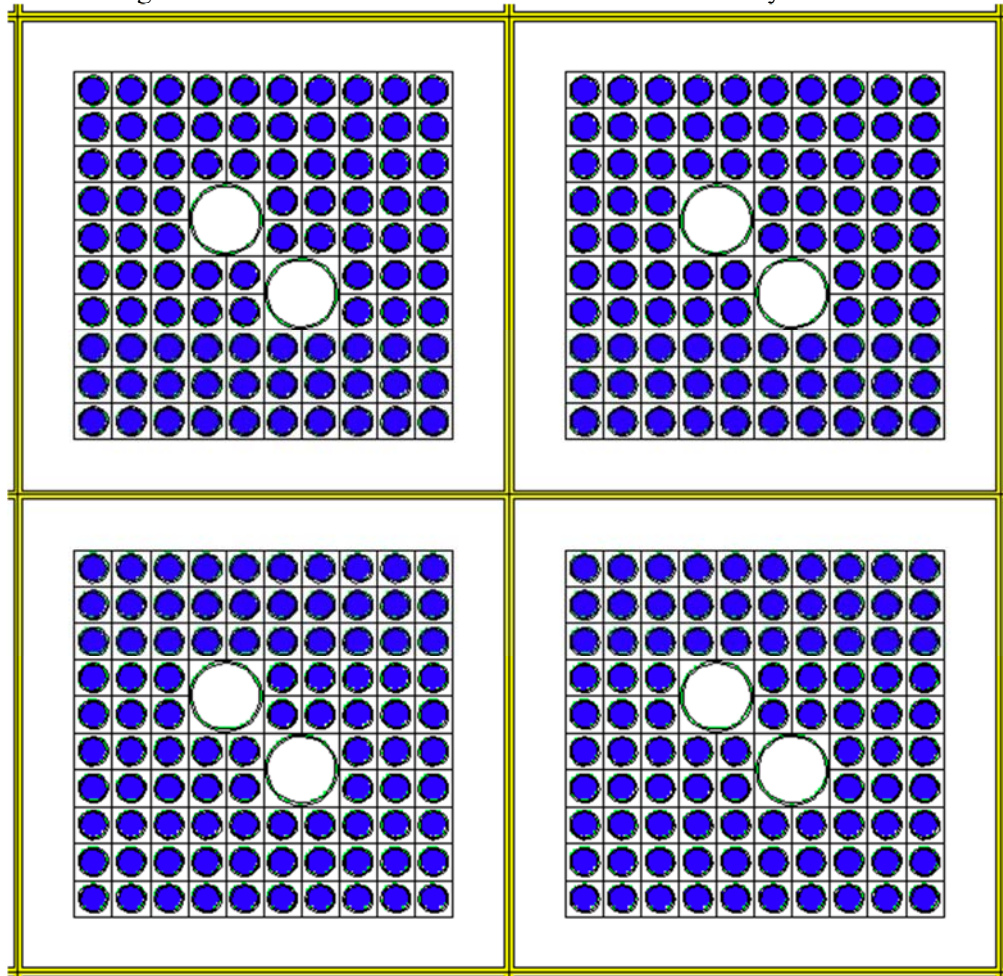
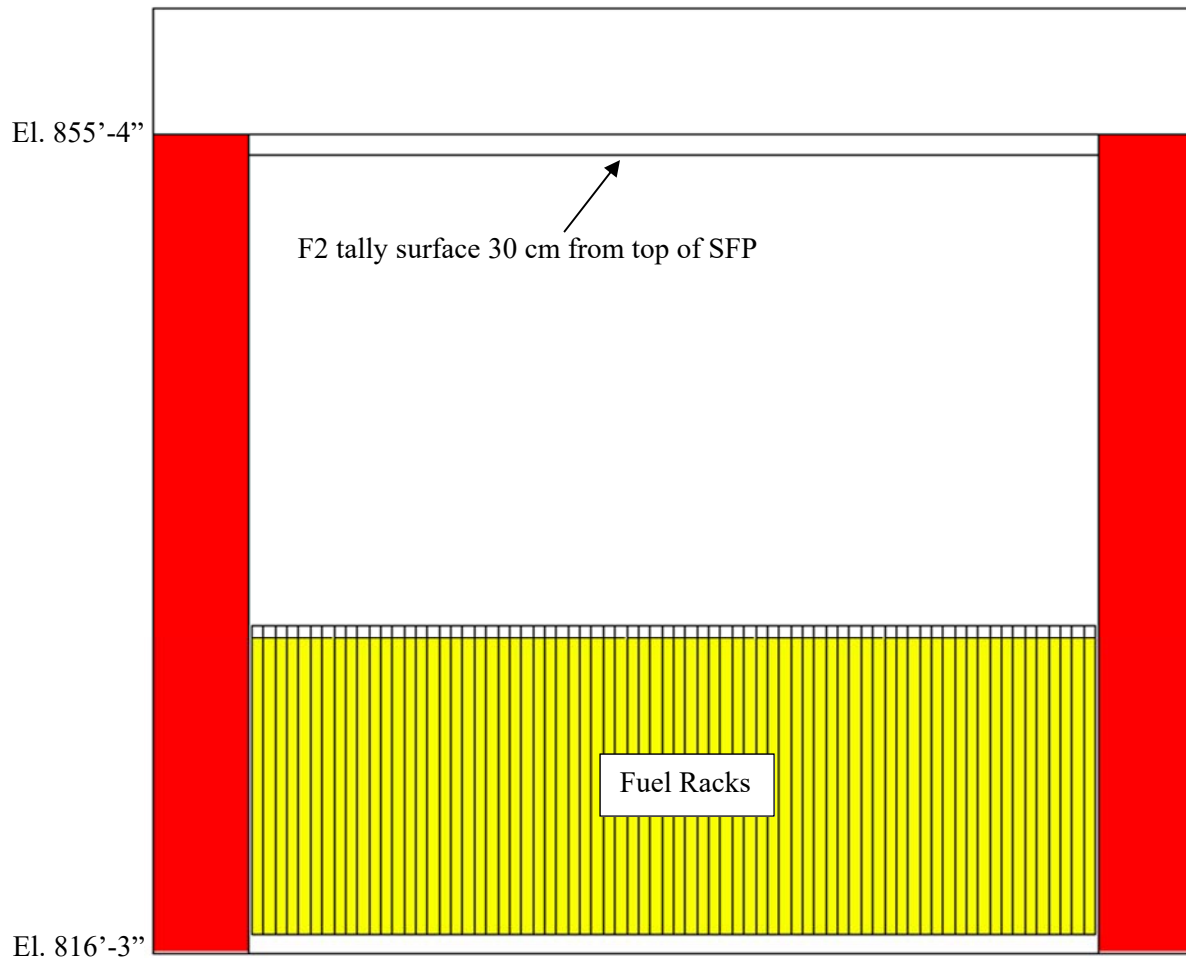


Figure 7-20 MCNP5 Visual Model of the SFP and Surrounding Area



7.7 Determine Dose at Control Room and EAB Using Line Beam Response Method

The methodology in Section 6.4 is followed to determine the dose rate at the MCR and EAB. Table 7-14 contains the MCNP5 generated flux 30 cm from the top of the SFP. The MCNP5 results are all under 5% error, which is the standard criteria for acceptable tally results (Reference 3.23). Table 7-15 contains the a, b, c, and d fit parameters from Reference 3.19 (included as Attachment 3) for the LBRF method at 95 degrees for the EAB and 110 degrees for the MCR (see Section 7.1).

The shielding factor of the walls around the control room is based on Input 5.12 and 5.13. The concrete wall/ceiling of the Control Building is 2 feet thick. This represents four tenth-value layer thicknesses. Therefore, the control room shielding factor is 0.0001 ($0.1 \times 0.1 \times 0.1 \times 0.1$). Four tenth-value layers is a realistic representation of the shielding provided by the 2-foot thick walls. Using a 2-foot thickness conservatively does not account for the additional shielding provided by concrete floors between the elevation of the control room and spent fuel pool.

Table 7-14 Flux at Top of SFP

MCNP Input File	Flux ($\gamma \cdot \text{cm}^2 \cdot \text{s}$)	Error (%)
75Y.i	1.57E+09	0.0047
83Y.i	1.46E+09	0.0047
92Y.i	1.37E+09	0.0047
1Y.i	1.31E+09	0.0047
125Y.i	1.17E+09	0.0047
15Y.i	1.08E+09	0.0047
2Y.i	9.53E+08	0.0046
3Y.i	7.98E+08	0.0044
5Y.1	6.31E+08	0.0044

Table 7-15 LBFR a, b, c, and d Fit Parameters

Angle (degrees)	a	b	c	d
110	-15.0579	-0.98864	0.000881	0.001355
95	-14.8431	-0.98171	0.001045	0.001257

Table 7-16 shows the dose rate results computed using the equations in Section 6.4 and Assumption 4.3 with the MCNP5 generated photons per second at the top of the drained SFP. These results will be utilized in the EP exemption request for SAFSTOR. Distance is “x” in the table below.

Table 7-16 Drain Down Shine to MCR and EAB Dose Results

Boundary	Distance “x” to Boundary (m)	$e^{(a-cx)}$	$x^{(b-dx)}$	LBFR (rad/ γ)	Decay Time (years)	Flux ($\gamma/\text{cm}^2 \cdot \text{s}$)	γ/s at top of pool	Dose Rate (mrem/hr)
Exclusion Area Boundary	578.0	1.96E-07	1.91E-05	4.897E-23	0.75	1.57E+09	1.17E+15	0.21
					0.83	1.46E+09	1.09E+15	0.19
					0.92	1.37E+09	1.02E+15	0.18
					1	1.31E+09	9.71E+14	0.17
					1.25	1.17E+09	8.66E+14	0.15
					1.5	1.08E+09	8.01E+14	0.14
					2	9.53E+08	7.09E+14	0.12
					3	7.98E+08	5.93E+14	0.10
Main Control Room	46.99	2.77E-07	1.74E-02	6.30E-20	0.75	1.57E+09	1.17E+15	0.027
					0.83	1.46E+09	1.09E+15	0.025
					0.92	1.37E+09	1.02E+15	0.023
					1	1.31E+09	9.71E+14	0.022
					1.25	1.17E+09	8.66E+14	0.020
					1.5	1.08E+09	8.01E+14	0.018
					2	9.53E+08	7.09E+14	0.016
					3	7.98E+08	5.93E+14	0.013
5	6.31E+08	4.69E+14	0.011					

A sample calculation for the dose rate at the exclusion area boundary 0.75 year after shutdown is provided.

$$\begin{aligned}
 R(x, E, \emptyset) &= kEx^{(b-dx)}e^{(a-cx)} \\
 &= \frac{1.308E - 11 \text{ rads}}{\text{MeV}/\gamma} * 1 \text{ MeV} * 578.0 \text{ m}^{(-0.98171 - (0.001257)*(578.0 \text{ m}))} \\
 &* e^{(-14.8431 - (0.001045)*(578.0 \text{ m}))} = 4.897E - 23 \left(\frac{\text{air - rad}}{\text{photon}} \right)
 \end{aligned}$$

$$\begin{aligned}
 \text{Dose Rate} \left(\frac{\text{air - mrad}}{\text{hr}} \right) &= R(x, E, \emptyset) \left(\frac{\text{air - rad}}{\text{photon}} \right) * \frac{\text{photons}}{\text{s}} * \frac{1000 \text{ mrad}}{\text{rad}} * \frac{3600 \text{ s}}{\text{hr}} = \\
 &= 4.897E - 23 \left(\frac{\text{air - rad}}{\text{photon}} \right) * \frac{1.17E + 15 \text{ photons}}{\text{s}} * \frac{1000 \text{ mrad}}{\text{rad}} * \frac{3600 \text{ s}}{\text{hr}} \\
 &= 0.21 \text{ mrem/hr}
 \end{aligned}$$

Attachment 1

Attachment 1: ORIGEN Inputs**0Y.inp**

```

This SCALE input file was generated by
OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010
=arp
ge10x10-8
4.111
3
440.1621
440.1621
440.1621
27.97
27.97
27.97
1
1
1
0.429
ft33f001
end
#origens
0$$ a4 33 a11 71 e t
ge10x10-8
3$$ 33 a3 1 27 a16 2 a33 18 e t
35$$ 0 t
56$$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95$$ 0 t
Cycle 1 -0Y
1 MTU
58** 27.97 27.97 27.97 27.97 27.97 27.97 27.97 27.97 27.97 27.97
60** 44.01621 88.03242 132.0486 176.0648 220.081 264.0972 308.1135
352.1297 396.1459 440.1621
66$$ a1 2 a5 2 a9 2 e
73$$ 922340 922350 922360 922380
74** 365.879 41110 189.106 958335
75$$ 2 2 2 2
t
ge10x10-8
3$$ 33 a3 2 27 a33 18 e t
35$$ 0 t
56$$ 10 10 a6 3 a10 10 a15 3 a18 1 e
57** 440.1621 a3 1e-05 0.3333333 e
95$$ 0 t

```

Attachment 1

Cycle 2 -0Y

1 MTU

58** 27.97 27.97 27.97 27.97 27.97 27.97 27.97 27.97 27.97 27.97

60** 484.1783 528.1945 572.2107 616.2269 660.2431 704.2593 748.2755

792.2917 836.3079 880.3242

66\$\$ a1 2 a5 2 a9 2 e t

ge10x10-8

35\$\$ 33 a3 3 27 a33 18 e t

35\$\$ 0 t

56\$\$ 10 10 a10 10 a15 3 a18 1 e

57** 880.3242 a3 1e-05 0.3333333 e

95\$\$ 0 t

Cycle 3 -0Y

1 MTU

58** 27.97 27.97 27.97 27.97 27.97 27.97 27.97 27.97 27.97 27.97

60** 924.3404 968.3566 1012.373 1056.389 1100.405 1144.421 1188.438

1232.454 1276.47 1320.486

66\$\$ a1 2 a5 2 a9 2 e t

54\$\$ a8 1 a11 0 e

56\$\$ a2 10 a6 1 a10 10 a14 5 a15 3 a17 2 e

57** 0 a3 1e-05 e

95\$\$ 0 t

Cycle 3 Down - 0Y

1 MTU

60** 0 0.75 0.83 0.92 1 1.25 1.5 2 3 5

61** f0.05

65\$\$

'Gram-Atoms Grams Curies Watts-All Watts-Gamma

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

81\$\$ 2 0 26 1 a7 200 e

82\$\$ 2 2 2 2 2 2 2 2 2 e

83**

1.000000e+07 8.000000e+06 6.500000e+06 5.000000e+06 4.000000e+06

3.000000e+06 2.500000e+06 2.000000e+06 1.660000e+06 1.330000e+06

1.000000e+06 8.000000e+05 6.000000e+05 4.000000e+05 3.000000e+05

2.000000e+05 1.000000e+05 5.000000e+04 1.000000e+04 e

84**

2.000000e+07 8.187300e+06 6.434000e+06 4.800000e+06

3.000000e+06 2.479000e+06 2.354000e+06 1.850000e+06 1.400000e+06

9.000000e+05 4.000000e+05 1.000000e+05 2.500000e+04 1.700000e+04

3.000000e+03 5.500000e+02 1.000000e+02 3.000000e+01 1.000000e+01

8.100000e+00 6.000000e+00 4.750000e+00 3.000000e+00 1.770000e+00

1.000000e+00 6.250000e-01 4.000000e-01 3.750000e-01 e

t

Attachment 1

```
56$$ 0 0 a10 1 e t
56$$ 0 0 a10 2 e t
56$$ 0 0 a10 3 e t
56$$ 0 0 a10 4 e t
56$$ 0 0 a10 5 e t
56$$ 0 0 a10 6 e t
56$$ 0 0 a10 7 e t
56$$ 0 0 a10 8 e t
56$$ 0 0 a10 9 e t
56$$ 0 0 a10 10 e t
56$$ f0 t
end
=opus
LIBUNIT=33
TYPARAMS=NUCLIDES
UNITS=WATTS
LIBTYPE=ALL
TIME=YEARS
NPOSITION=1 2 3 4 5 6 7 8 9 10 end
end
#shell
copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\0Y\0Y.f71"
del ft71f001
end
```

0YBounding.inp

'This SCALE input file was generated by
'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010

```
=arp
ge10x10-8
3.936
3
731.9078
731.9078
731.9078
23.15
23.15
23.15
1
1
1
0.429
ft33f001
end
#origens
```

Attachment 1

0\$\$ a4 33 a11 71 e t
ge10x10-8
3\$\$ 33 a3 1 27 a16 2 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 1 -0yBounding_LessConservative
1 MTU
58** 23.15 23.15 23.15 23.15 23.15 23.15 23.15 23.15 23.15
60** 73.19078 146.3816 219.5724 292.7631 365.9539 439.1447 512.3355
585.5263 658.7171 731.9078
66\$\$ a1 2 a5 2 a9 2 e
73\$\$ 922340 922350 922360 922380
74** 350.304 39360 181.056 960108.6
75\$\$ 2 2 2 2
t
ge10x10-8
3\$\$ 33 a3 2 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e
57** 731.9078 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 2 -0yBounding_LessConservative
1 MTU
58** 23.15 23.15 23.15 23.15 23.15 23.15 23.15 23.15 23.15
60** 805.0986 878.2894 951.4802 1024.671 1097.862 1171.053 1244.243
1317.434 1390.625 1463.816
66\$\$ a1 2 a5 2 a9 2 e t
ge10x10-8
3\$\$ 33 a3 3 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a10 10 a15 3 a18 1 e
57** 1463.816 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 3 -0yBounding_LessConservative
1 MTU
58** 23.15 23.15 23.15 23.15 23.15 23.15 23.15 23.15 23.15
60** 1537.006 1610.197 1683.388 1756.579 1829.77 1902.96 1976.151
2049.342 2122.533 2195.723
66\$\$ a1 2 a5 2 a9 2 e t
54\$\$ a8 1 a11 0 e
56\$\$ a2 10 a6 1 a10 10 a14 5 a15 3 a17 2 e
57** 0 a3 1e-05 e
95\$\$ 0 t
Cycle 3 Down - 0yBounding_LessConservative

Attachment 1

1 MTU

60** 0 0.75 0.83 0.92 1 1.25 1.5 2 3 5

61** f0.05

65\$\$

'Gram-Atoms Grams Curies Watts-All Watts-Gamma

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

81\$\$ 2 0 26 1 a7 200 e

82\$\$ 2 2 2 2 2 2 2 2 2 e

83**

1.0000000e+07 8.0000000e+06 6.5000000e+06 5.0000000e+06 4.0000000e+06

3.0000000e+06 2.5000000e+06 2.0000000e+06 1.6600000e+06 1.3300000e+06

1.0000000e+06 8.0000000e+05 6.0000000e+05 4.0000000e+05 3.0000000e+05

2.0000000e+05 1.0000000e+05 5.0000000e+04 1.0000000e+04 e

84**

2.0000000e+07 8.1873000e+06 6.4340000e+06 4.8000000e+06

3.0000000e+06 2.4790000e+06 2.3540000e+06 1.8500000e+06 1.4000000e+06

9.0000000e+05 4.0000000e+05 1.0000000e+05 2.5000000e+04 1.7000000e+04

3.0000000e+03 5.5000000e+02 1.0000000e+02 3.0000000e+01 1.0000000e+01

8.1000000e+00 6.0000000e+00 4.7500000e+00 3.0000000e+00 1.7700000e+00

1.0000000e+00 6.2500000e-01 4.0000000e-01 3.7500000e-01 e

t

56\$\$ 0 0 a10 1 e t

56\$\$ 0 0 a10 2 e t

56\$\$ 0 0 a10 3 e t

56\$\$ 0 0 a10 4 e t

56\$\$ 0 0 a10 5 e t

56\$\$ 0 0 a10 6 e t

56\$\$ 0 0 a10 7 e t

56\$\$ 0 0 a10 8 e t

56\$\$ 0 0 a10 9 e t

56\$\$ 0 0 a10 10 e t

56\$\$ f0 t

end

=opus

LIBUNIT=33

TYPARAMS=NUCLIDES

UNITS=WATTS

LIBTYPE=ALL

TIME=YEARS

NPOSITION=1 2 3 4 5 6 7 8 9 10 end

end

#shell

Attachment 1

```
copy ft71f001
"D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\0YBounding_LessConservative\0YBounding_Less
Conservative.f71"
del ft71f001
end
```

2Y_1.inp

```
'This SCALE input file was generated by
'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010
=arp
ge10x10-8
4.113
3
529.8855
529.8855
529.8855
27.94
27.94
27.94
1
1
1
0.429
ft33f001
end
#origens
0$$ a4 33 a11 71 e t
ge10x10-8
3$$ 33 a3 1 27 a16 2 a33 18 e t
35$$ 0 t
56$$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95$$ 0 t
Cycle 1 -2Y_1
1 MTU
58** 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94
60** 52.98855 105.9771 158.9656 211.9542 264.9427 317.9313 370.9198
423.9084 476.8969 529.8855
66$$ a1 2 a5 2 a9 2 e
73$$ 922340 922350 922360 922380
74** 366.057 41130 189.198 958314.7
75$$ 2 2 2 2
t
ge10x10-8
3$$ 33 a3 2 27 a33 18 e t
```

Attachment 1

35\$\$ 0 t
 56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e
 57** 529.8855 a3 1e-05 0.3333333 e
 95\$\$ 0 t
 Cycle 2 -2Y_1
 1 MTU
 58** 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94
 60** 582.874 635.8626 688.8511 741.8397 794.8282 847.8168 900.8053
 953.7938 1006.782 1059.771
 66\$\$ a1 2 a5 2 a9 2 e t
 ge10x10-8
 3\$\$ 33 a3 3 27 a33 18 e t
 35\$\$ 0 t
 56\$\$ 10 10 a10 10 a15 3 a18 1 e
 57** 1059.771 a3 1e-05 0.3333333 e
 95\$\$ 0 t
 Cycle 3 -2Y_1
 1 MTU
 58** 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94
 60** 1112.759 1165.748 1218.737 1271.725 1324.714 1377.702 1430.691
 1483.679 1536.668 1589.656
 66\$\$ a1 2 a5 2 a9 2 e t
 54\$\$ a8 1 a11 0 e
 56\$\$ a2 8 a6 1 a10 10 a14 5 a15 3 a17 2 e
 57** 0 a3 1e-05 e
 95\$\$ 0 t
 Cycle 3 Down - 2Y_1
 1 MTU
 60** 0 2 3 3.25 3.5 4 5 7
 61** f0.05
 65\$\$
 'Gram-Atoms Grams Curies Watts-All Watts-Gamma
 3z 1 0 0 3z 3z 3z 6z
 3z 1 0 0 3z 3z 3z 6z
 3z 1 0 0 3z 3z 3z 6z
 81\$\$ 2 0 26 1 a7 200 e
 82\$\$ 2 2 2 2 2 2 2 e
 83**
 1.000000e+07 8.000000e+06 6.500000e+06 5.000000e+06 4.000000e+06
 3.000000e+06 2.500000e+06 2.000000e+06 1.660000e+06 1.330000e+06
 1.000000e+06 8.000000e+05 6.000000e+05 4.000000e+05 3.000000e+05
 2.000000e+05 1.000000e+05 5.000000e+04 1.000000e+04 e
 84**
 2.000000e+07 8.187300e+06 6.434000e+06 4.800000e+06
 3.000000e+06 2.479000e+06 2.354000e+06 1.850000e+06 1.400000e+06
 9.000000e+05 4.000000e+05 1.000000e+05 2.500000e+04 1.700000e+04

Attachment 1

3.0000000e+03 5.5000000e+02 1.0000000e+02 3.0000000e+01 1.0000000e+01
 8.1000000e+00 6.0000000e+00 4.7500000e+00 3.0000000e+00 1.7700000e+00
 1.0000000e+00 6.2500000e-01 4.0000000e-01 3.7500000e-01 e

t

56\$\$ 0 0 a10 1 e t

56\$\$ 0 0 a10 2 e t

56\$\$ 0 0 a10 3 e t

56\$\$ 0 0 a10 4 e t

56\$\$ 0 0 a10 5 e t

56\$\$ 0 0 a10 6 e t

56\$\$ 0 0 a10 7 e t

56\$\$ 0 0 a10 8 e t

56\$\$ f0 t

end

=opus

LIBUNIT=33

TYPARAMS=NUCLIDES

UNITS=WATTS

LIBTYPE=ALL

TIME=YEARS

NPOSITION=1 2 3 4 5 6 7 8 end

end

#shell

copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\2Y\2Y_1.f71"

del ft71f001

end

2Y 2.inp

'This SCALE input file was generated by

'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010

=arp

ge10x10-8

4.113

3

529.8855

529.8855

529.8855

27.94

27.94

27.94

1

1

1

0.429

ft33f001

Attachment 1

end
#origens
0\$\$ a4 33 a11 71 e t
ge10x10-8
3\$\$ 33 a3 1 27 a16 2 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 1 -2Y_1
1 MTU
58** 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94
60** 52.98855 105.9771 158.9656 211.9542 264.9427 317.9313 370.9198
423.9084 476.8969 529.8855
66\$\$ a1 2 a5 2 a9 2 e
73\$\$ 922340 922350 922360 922380
74** 366.057 41130 189.198 958314.7
75\$\$ 2 2 2 2
t
ge10x10-8
3\$\$ 33 a3 2 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e
57** 529.8855 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 2 -2Y_1
1 MTU
58** 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94
60** 582.874 635.8626 688.8511 741.8397 794.8282 847.8168 900.8053
953.7938 1006.782 1059.771
66\$\$ a1 2 a5 2 a9 2 e t
ge10x10-8
3\$\$ 33 a3 3 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a10 10 a15 3 a18 1 e
57** 1059.771 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 3 -2Y_1
1 MTU
58** 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94
60** 1112.759 1165.748 1218.737 1271.725 1324.714 1377.702 1430.691
1483.679 1536.668 1589.656
66\$\$ a1 2 a5 2 a9 2 e t
54\$\$ a8 1 a11 0 e
56\$\$ a2 5 a6 1 a10 10 a14 5 a15 3 a17 2 e
57** 0 a3 1e-05 e

Attachment 1

```

95$$ 0 t
Cycle 3 Down - 2Y_1
1 MTU
60** 0 2 2.75 2.83 2.92
61** f0.05
65$$
'Gram-Atoms Grams Curies Watts-All Watts-Gamma
3z 1 0 0 3z 3z 3z 6z
3z 1 0 0 3z 3z 3z 6z
3z 1 0 0 3z 3z 3z 6z
81$$ 2 0 26 1 a7 200 e
82$$ 2 2 2 2 2 e
83**
1.000000e+07 8.000000e+06 6.500000e+06 5.000000e+06 4.000000e+06
3.000000e+06 2.500000e+06 2.000000e+06 1.660000e+06 1.330000e+06
1.000000e+06 8.000000e+05 6.000000e+05 4.000000e+05 3.000000e+05
2.000000e+05 1.000000e+05 5.000000e+04 1.000000e+04 e
84**
2.000000e+07 8.187300e+06 6.434000e+06 4.800000e+06
3.000000e+06 2.479000e+06 2.354000e+06 1.850000e+06 1.400000e+06
9.000000e+05 4.000000e+05 1.000000e+05 2.500000e+04 1.700000e+04
3.000000e+03 5.500000e+02 1.000000e+02 3.000000e+01 1.000000e+01
8.100000e+00 6.000000e+00 4.750000e+00 3.000000e+00 1.770000e+00
1.000000e+00 6.250000e-01 4.000000e-01 3.750000e-01 e
t
56$$ 0 0 a10 1 e t
56$$ 0 0 a10 2 e t
56$$ 0 0 a10 3 e t
56$$ 0 0 a10 4 e t
56$$ 0 0 a10 5 e t
56$$ f0 t
end
=opus
LIBUNIT=33
TYPARAMS=NUCLIDES
UNITS=WATTS
LIBTYPE=ALL
TIME=YEARS
NPOSITION=1 2 3 4 5 end
end
#shell
copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\2Y\2Y_2.f71"
del ft71f001
end

```

Attachment 1

4Y 1.inp

```
'This SCALE input file was generated by
'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010
=arp
ge10x10-8
4.163
3
516.7665
516.7665
516.7665
28.37
28.37
28.37
1
1
1
0.429
ft33f001
end
#origens
0$$ a4 33 a11 71 e t
ge10x10-8
3$$ 33 a3 1 27 a16 2 a33 18 e t
35$$ 0 t
56$$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95$$ 0 t
Cycle 1 -4Y_1
1 MTU
58** 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37
60** 51.67665 103.3533 155.03 206.7066 258.3833 310.0599 361.7366
413.4132 465.0899 516.7665
66$$ a1 2 a5 2 a9 2 e
73$$ 922340 922350 922360 922380
74** 370.507 41630 191.498 957808
75$$ 2 2 2 2
t
ge10x10-8
3$$ 33 a3 2 27 a33 18 e t
35$$ 0 t
56$$ 10 10 a6 3 a10 10 a15 3 a18 1 e
57** 516.7665 a3 1e-05 0.3333333 e
95$$ 0 t
Cycle 2 -4Y_1
1 MTU
```

Attachment 1

58** 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37
 60** 568.4432 620.1198 671.7965 723.4732 775.1498 826.8265 878.5031
 930.1798 981.8564 1033.533
 66\$\$ a1 2 a5 2 a9 2 e t
 ge10x10-8
 3\$\$ 33 a3 3 27 a33 18 e t
 35\$\$ 0 t
 56\$\$ 10 10 a10 10 a15 3 a18 1 e
 57** 1033.533 a3 1e-05 0.3333333 e
 95\$\$ 0 t
 Cycle 3 -4Y_1
 1 MTU
 58** 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37
 60** 1085.21 1136.886 1188.563 1240.24 1291.916 1343.593 1395.27
 1446.946 1498.623 1550.3
 66\$\$ a1 2 a5 2 a9 2 e t
 54\$\$ a8 1 a11 0 e
 56\$\$ a2 9 a6 1 a10 10 a14 5 a15 3 a17 2 e
 57** 0 a3 1e-05 e
 95\$\$ 0 t
 Cycle 3 Down - 4Y_1
 1 MTU
 60** 0 3 4 5 5.25 5.5 6 7 9
 61** f0.05
 65\$\$
 'Gram-Atoms Grams Curies Watts-All Watts-Gamma
 3z 1 0 0 3z 3z 3z 6z
 3z 1 0 0 3z 3z 3z 6z
 3z 1 0 0 3z 3z 3z 6z
 81\$\$ 2 0 26 1 a7 200 e
 82\$\$ 2 2 2 2 2 2 2 2 2 e
 83**
 1.0000000e+07 8.0000000e+06 6.5000000e+06 5.0000000e+06 4.0000000e+06
 3.0000000e+06 2.5000000e+06 2.0000000e+06 1.6600000e+06 1.3300000e+06
 1.0000000e+06 8.0000000e+05 6.0000000e+05 4.0000000e+05 3.0000000e+05
 2.0000000e+05 1.0000000e+05 5.0000000e+04 1.0000000e+04 e
 84**
 2.0000000e+07 8.1873000e+06 6.4340000e+06 4.8000000e+06
 3.0000000e+06 2.4790000e+06 2.3540000e+06 1.8500000e+06 1.4000000e+06
 9.0000000e+05 4.0000000e+05 1.0000000e+05 2.5000000e+04 1.7000000e+04
 3.0000000e+03 5.5000000e+02 1.0000000e+02 3.0000000e+01 1.0000000e+01
 8.1000000e+00 6.0000000e+00 4.7500000e+00 3.0000000e+00 1.7700000e+00
 1.0000000e+00 6.2500000e-01 4.0000000e-01 3.7500000e-01 e
 t
 56\$\$ 0 0 a10 1 e t
 56\$\$ 0 0 a10 2 e t

Attachment 1

```

56$$ 0 0 a10 3 e t
56$$ 0 0 a10 4 e t
56$$ 0 0 a10 5 e t
56$$ 0 0 a10 6 e t
56$$ 0 0 a10 7 e t
56$$ 0 0 a10 8 e t
56$$ 0 0 a10 9 e t
56$$ f0 t
end
=opus
LIBUNIT=33
TYPARAMS=NUCLIDES
UNITS=WATTS
LIBTYPE=ALL
TIME=YEARS
NPOSITION=1 2 3 4 5 6 7 8 9 end
end
#shell
copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\4Y\4Y_1.f71"
del ft71f001
end

```

4Y 2.inp

'This SCALE input file was generated by
'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010

```

=arp
ge10x10-8
4.163
3
516.7665
516.7665
516.7665
28.37
28.37
28.37
1
1
1
0.429
ft33f001
end
#origens
0$$ a4 33 a11 71 e t
ge10x10-8
3$$ 33 a3 1 27 a16 2 a33 18 e t

```

Attachment 1

35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 1 -4Y_1
1 MTU
58** 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37
60** 51.67665 103.3533 155.03 206.7066 258.3833 310.0599 361.7366
413.4132 465.0899 516.7665
66\$\$ a1 2 a5 2 a9 2 e
73\$\$ 922340 922350 922360 922380
74** 370.507 41630 191.498 957808
75\$\$ 2 2 2 2
t
ge10x10-8
3\$\$ 33 a3 2 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e
57** 516.7665 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 2 -4Y_1
1 MTU
58** 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37
60** 568.4432 620.1198 671.7965 723.4732 775.1498 826.8265 878.5031
930.1798 981.8564 1033.533
66\$\$ a1 2 a5 2 a9 2 e t
ge10x10-8
3\$\$ 33 a3 3 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a10 10 a15 3 a18 1 e
57** 1033.533 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 3 -4Y_1
1 MTU
58** 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.37
60** 1085.21 1136.886 1188.563 1240.24 1291.916 1343.593 1395.27
1446.946 1498.623 1550.3
66\$\$ a1 2 a5 2 a9 2 e t
54\$\$ a8 1 a11 0 e
56\$\$ a2 6 a6 1 a10 10 a14 5 a15 3 a17 2 e
57** 0 a3 1e-05 e
95\$\$ 0 t
Cycle 3 Down - 4Y_1
1 MTU
60** 0 3 4 4.75 4.83 4.92
61** f0.05

Attachment 1

65\$\$

'Gram-Atoms Grams Curies Watts-All Watts-Gamma

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

81\$\$ 2 0 26 1 a7 200 e

82\$\$ 2 2 2 2 2 2 e

83**

1.000000e+07 8.000000e+06 6.500000e+06 5.000000e+06 4.000000e+06

3.000000e+06 2.500000e+06 2.000000e+06 1.660000e+06 1.330000e+06

1.000000e+06 8.000000e+05 6.000000e+05 4.000000e+05 3.000000e+05

2.000000e+05 1.000000e+05 5.000000e+04 1.000000e+04 e

84**

2.000000e+07 8.187300e+06 6.434000e+06 4.800000e+06

3.000000e+06 2.479000e+06 2.354000e+06 1.850000e+06 1.400000e+06

9.000000e+05 4.000000e+05 1.000000e+05 2.500000e+04 1.700000e+04

3.000000e+03 5.500000e+02 1.000000e+02 3.000000e+01 1.000000e+01

8.100000e+00 6.000000e+00 4.750000e+00 3.000000e+00 1.770000e+00

1.000000e+00 6.250000e-01 4.000000e-01 3.750000e-01 e

t

56\$\$ 0 0 a10 1 e t

56\$\$ 0 0 a10 2 e t

56\$\$ 0 0 a10 3 e t

56\$\$ 0 0 a10 4 e t

56\$\$ 0 0 a10 5 e t

56\$\$ 0 0 a10 6 e t

56\$\$ f0 t

end

=opus

LIBUNIT=33

TYPARAMS=NUCLIDES

UNITS=WATTS

LIBTYPE=ALL

TIME=YEARS

NPOSITION=1 2 3 4 5 6 end

end

#shell

copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\4Y\4Y_2.f71"

del ft71f001

end

6Y 1.inp

'This SCALE input file was generated by

'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010

=arp

Attachment 1

ge10x10-8
4.191
3
507.3614
507.3614
507.3614
28.98
28.98
28.98
1
1
1
0.429
ft33f001
end
#origens
0\$\$ a4 33 a11 71 e t
ge10x10-8
3\$\$ 33 a3 1 27 a16 2 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 1 -6Y_1
1 MTU
58** 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98
60** 50.73614 101.4723 152.2084 202.9446 253.6807 304.4168 355.153
405.8891 456.6253 507.3614
66\$\$ a1 2 a5 2 a9 2 e
73\$\$ 922340 922350 922360 922380
74** 372.999 41910 192.786 957524.2
75\$\$ 2 2 2 2
t
ge10x10-8
3\$\$ 33 a3 2 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e
57** 507.3614 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 2 -6Y_1
1 MTU
58** 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98
60** 558.0975 608.8337 659.5698 710.306 761.0421 811.7782 862.5144
913.2505 963.9867 1014.723
66\$\$ a1 2 a5 2 a9 2 e t
ge10x10-8

Attachment 1

35\$ 33 a3 3 27 a33 18 e t

35\$ 0 t

56\$ 10 10 a10 10 a15 3 a18 1 e

57** 1014.723 a3 1e-05 0.3333333 e

95\$ 0 t

Cycle 3 -6Y_1

1 MTU

58** 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98

60** 1065.459 1116.195 1166.931 1217.667 1268.403 1319.14 1369.876

1420.612 1471.348 1522.084

66\$ a1 2 a5 2 a9 2 e t

54\$ a8 1 a11 0 e

56\$ a2 9 a6 1 a10 10 a14 5 a15 3 a17 2 e

57** 0 a3 1e-05 e

95\$ 0 t

Cycle 3 Down - 6Y_1

1 MTU

60** 0 3 6 7 7.25 7.5 8 9 11

61** f0.05

65\$

'Gram-Atoms Grams Curies Watts-All Watts-Gamma

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

81\$ 2 0 26 1 a7 200 e

82\$ 2 2 2 2 2 2 2 2 e

83**

1.000000e+07 8.000000e+06 6.500000e+06 5.000000e+06 4.000000e+06

3.000000e+06 2.500000e+06 2.000000e+06 1.660000e+06 1.330000e+06

1.000000e+06 8.000000e+05 6.000000e+05 4.000000e+05 3.000000e+05

2.000000e+05 1.000000e+05 5.000000e+04 1.000000e+04 e

84**

2.000000e+07 8.187300e+06 6.434000e+06 4.800000e+06

3.000000e+06 2.479000e+06 2.354000e+06 1.850000e+06 1.400000e+06

9.000000e+05 4.000000e+05 1.000000e+05 2.500000e+04 1.700000e+04

3.000000e+03 5.500000e+02 1.000000e+02 3.000000e+01 1.000000e+01

8.100000e+00 6.000000e+00 4.750000e+00 3.000000e+00 1.770000e+00

1.000000e+00 6.250000e-01 4.000000e-01 3.750000e-01 e

t

56\$ 0 0 a10 1 e t

56\$ 0 0 a10 2 e t

56\$ 0 0 a10 3 e t

56\$ 0 0 a10 4 e t

56\$ 0 0 a10 5 e t

56\$ 0 0 a10 6 e t

56\$ 0 0 a10 7 e t

Attachment 1

```
56$$ 0 0 a10 8 e t
56$$ 0 0 a10 9 e t
56$$ f0 t
end
=opus
LIBUNIT=33
TYPARAMS=NUCLIDES
UNITS=WATTS
LIBTYPE=ALL
TIME=YEARS
NPOSITION=1 2 3 4 5 6 7 8 9 end
end
#shell
copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\6Y\6Y_1.f71"
del ft71f001
end
```

6Y 2.inp

```
'This SCALE input file was generated by
'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010
=arp
ge10x10-8
4.191
3
507.3614
507.3614
507.3614
28.98
28.98
28.98
1
1
1
0.429
ft33f001
end
#origens
0$$ a4 33 a11 71 e t
ge10x10-8
3$$ 33 a3 1 27 a16 2 a33 18 e t
35$$ 0 t
56$$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95$$ 0 t
Cycle 1 -6Y_1
```

Attachment 1

1 MTU

58** 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98

60** 50.73614 101.4723 152.2084 202.9446 253.6807 304.4168 355.153

405.8891 456.6253 507.3614

66\$\$ a1 2 a5 2 a9 2 e

73\$\$ 922340 922350 922360 922380

74** 372.999 41910 192.786 957524.2

75\$\$ 2 2 2 2

t

ge10x10-8

3\$\$ 33 a3 2 27 a33 18 e t

35\$\$ 0 t

56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e

57** 507.3614 a3 1e-05 0.3333333 e

95\$\$ 0 t

Cycle 2 -6Y_1

1 MTU

58** 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98

60** 558.0975 608.8337 659.5698 710.306 761.0421 811.7782 862.5144

913.2505 963.9867 1014.723

66\$\$ a1 2 a5 2 a9 2 e t

ge10x10-8

3\$\$ 33 a3 3 27 a33 18 e t

35\$\$ 0 t

56\$\$ 10 10 a10 10 a15 3 a18 1 e

57** 1014.723 a3 1e-05 0.3333333 e

95\$\$ 0 t

Cycle 3 -6Y_1

1 MTU

58** 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98 28.98

60** 1065.459 1116.195 1166.931 1217.667 1268.403 1319.14 1369.876

1420.612 1471.348 1522.084

66\$\$ a1 2 a5 2 a9 2 e t

54\$\$ a8 1 a11 0 e

56\$\$ a2 6 a6 1 a10 10 a14 5 a15 3 a17 2 e

57** 0 a3 1e-05 e

95\$\$ 0 t

Cycle 3 Down - 6Y_1

1 MTU

60** 0 3 6 6.75 6.83 6.92

61** f0.05

65\$\$

'Gram-Atoms Grams Curies Watts-All Watts-Gamma

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

Attachment 1

81\$\$ 2 0 26 1 a7 200 e

82\$\$ 2 2 2 2 2 2 e

83**

1.0000000e+07 8.0000000e+06 6.5000000e+06 5.0000000e+06 4.0000000e+06
 3.0000000e+06 2.5000000e+06 2.0000000e+06 1.6600000e+06 1.3300000e+06
 1.0000000e+06 8.0000000e+05 6.0000000e+05 4.0000000e+05 3.0000000e+05
 2.0000000e+05 1.0000000e+05 5.0000000e+04 1.0000000e+04 e

84**

2.0000000e+07 8.1873000e+06 6.4340000e+06 4.8000000e+06
 3.0000000e+06 2.4790000e+06 2.3540000e+06 1.8500000e+06 1.4000000e+06
 9.0000000e+05 4.0000000e+05 1.0000000e+05 2.5000000e+04 1.7000000e+04
 3.0000000e+03 5.5000000e+02 1.0000000e+02 3.0000000e+01 1.0000000e+01
 8.1000000e+00 6.0000000e+00 4.7500000e+00 3.0000000e+00 1.7700000e+00
 1.0000000e+00 6.2500000e-01 4.0000000e-01 3.7500000e-01 e

t

56\$\$ 0 0 a10 1 e t

56\$\$ 0 0 a10 2 e t

56\$\$ 0 0 a10 3 e t

56\$\$ 0 0 a10 4 e t

56\$\$ 0 0 a10 5 e t

56\$\$ 0 0 a10 6 e t

56\$\$ f0 t

end

=opus

LIBUNIT=33

TYPARAMS=NUCLIDES

UNITS=WATTS

LIBTYPE=ALL

TIME=YEARS

NPOSITION=1 2 3 4 5 6 end

end

#shell

copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\6Y\6Y_2.f71"

del ft71f001

end

10Y 1.inp

'This SCALE input file was generated by

'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010

=arp

ge10x10-8

3.898

3

466.9192

466.9192

Attachment 1

466.9192
29.04
29.04
29.04
1
1
1
0.429
ft33f001
end
#origens
0\$\$ a4 33 a11 71 e t
ge10x10-8
3\$\$ 33 a3 1 27 a16 2 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 1 -10Y_1
1 MTU
58** 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04
60** 46.69192 93.38384 140.0758 186.7677 233.4596 280.1515 326.8434
373.5354 420.2273 466.9192
66\$\$ a1 2 a5 2 a9 2 e
73\$\$ 922340 922350 922360 922380
74** 346.922 38980 179.308 960493.8
75\$\$ 2 2 2 2
t
ge10x10-8
3\$\$ 33 a3 2 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e
57** 466.9192 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 2 -10Y_1
1 MTU
58** 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04
60** 513.6111 560.303 606.9949 653.6869 700.3788 747.0707 793.7626
840.4545 887.1465 933.8384
66\$\$ a1 2 a5 2 a9 2 e t
ge10x10-8
3\$\$ 33 a3 3 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a10 10 a15 3 a18 1 e
57** 933.8384 a3 1e-05 0.3333333 e
95\$\$ 0 t

Attachment 1

Cycle 3 -10Y_1

1 MTU

58** 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04

60** 980.5303 1027.222 1073.914 1120.606 1167.298 1213.99 1260.682

1307.374 1354.066 1400.758

66\$\$ a1 2 a5 2 a9 2 e t

54\$\$ a8 1 a11 0 e

56\$\$ a2 10 a6 1 a10 10 a14 5 a15 3 a17 2 e

57** 0 a3 1e-05 e

95\$\$ 0 t

Cycle 3 Down - 10Y_1

1 MTU

60** 0 3 9 10 11 11.25 11.5 12 13 15

61** f0.05

65\$\$

'Gram-Atoms Grams Curies Watts-All Watts-Gamma

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

81\$\$ 2 0 26 1 a7 200 e

82\$\$ 2 2 2 2 2 2 2 2 2 2 e

83**

1.0000000e+07 8.0000000e+06 6.5000000e+06 5.0000000e+06 4.0000000e+06

3.0000000e+06 2.5000000e+06 2.0000000e+06 1.6600000e+06 1.3300000e+06

1.0000000e+06 8.0000000e+05 6.0000000e+05 4.0000000e+05 3.0000000e+05

2.0000000e+05 1.0000000e+05 5.0000000e+04 1.0000000e+04 e

84**

2.0000000e+07 8.1873000e+06 6.4340000e+06 4.8000000e+06

3.0000000e+06 2.4790000e+06 2.3540000e+06 1.8500000e+06 1.4000000e+06

9.0000000e+05 4.0000000e+05 1.0000000e+05 2.5000000e+04 1.7000000e+04

3.0000000e+03 5.5000000e+02 1.0000000e+02 3.0000000e+01 1.0000000e+01

8.1000000e+00 6.0000000e+00 4.7500000e+00 3.0000000e+00 1.7700000e+00

1.0000000e+00 6.2500000e-01 4.0000000e-01 3.7500000e-01 e

t

56\$\$ 0 0 a10 1 e t

56\$\$ 0 0 a10 2 e t

56\$\$ 0 0 a10 3 e t

56\$\$ 0 0 a10 4 e t

56\$\$ 0 0 a10 5 e t

56\$\$ 0 0 a10 6 e t

56\$\$ 0 0 a10 7 e t

56\$\$ 0 0 a10 8 e t

56\$\$ 0 0 a10 9 e t

56\$\$ 0 0 a10 10 e t

56\$\$ f0 t

end

Attachment 1

```

=opus
LIBUNIT=33
TYPARAMS=NUCLIDES
UNITS=WATTS
LIBTYPE=ALL
TIME=YEARS
NPOSITION=1 2 3 4 5 6 7 8 9 10 end
end
#shell
copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\10Y\10Y_1.f71"
del ft71f001
end

```

10Y 2.inp

'This SCALE input file was generated by
'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010

```

=arp
ge10x10-8
3.898
3
466.9192
466.9192
466.9192
29.04
29.04
29.04
1
1
1
0.429
ft33f001
end
#origens
0$$ a4 33 a11 71 e t
ge10x10-8
3$$ 33 a3 1 27 a16 2 a33 18 e t
35$$ 0 t
56$$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95$$ 0 t
Cycle 1 -10Y_1
1 MTU
58** 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04
60** 46.69192 93.38384 140.0758 186.7677 233.4596 280.1515 326.8434
373.5354 420.2273 466.9192

```

Attachment 1

66\$\$ a1 2 a5 2 a9 2 e
 73\$\$ 922340 922350 922360 922380
 74** 346.922 38980 179.308 960493.8
 75\$\$ 2 2 2 2
 t
 ge10x10-8
 3\$\$ 33 a3 2 27 a33 18 e t
 35\$\$ 0 t
 56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e
 57** 466.9192 a3 1e-05 0.3333333 e
 95\$\$ 0 t
 Cycle 2 -10Y_1
 1 MTU
 58** 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04
 60** 513.6111 560.303 606.9949 653.6869 700.3788 747.0707 793.7626
 840.4545 887.1465 933.8384
 66\$\$ a1 2 a5 2 a9 2 e t
 ge10x10-8
 3\$\$ 33 a3 3 27 a33 18 e t
 35\$\$ 0 t
 56\$\$ 10 10 a10 10 a15 3 a18 1 e
 57** 933.8384 a3 1e-05 0.3333333 e
 95\$\$ 0 t
 Cycle 3 -10Y_1
 1 MTU
 58** 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04 29.04
 60** 980.5303 1027.222 1073.914 1120.606 1167.298 1213.99 1260.682
 1307.374 1354.066 1400.758
 66\$\$ a1 2 a5 2 a9 2 e t
 54\$\$ a8 1 a11 0 e
 56\$\$ a2 7 a6 1 a10 10 a14 5 a15 3 a17 2 e
 57** 0 a3 1e-05 e
 95\$\$ 0 t
 Cycle 3 Down - 10Y_1
 1 MTU
 60** 0 3 9 10 10.75 10.83 10.92
 61** f0.05
 65\$\$
 'Gram-Atoms Grams Curies Watts-All Watts-Gamma
 3z 1 0 0 3z 3z 3z 6z
 3z 1 0 0 3z 3z 3z 6z
 3z 1 0 0 3z 3z 3z 6z
 81\$\$ 2 0 26 1 a7 200 e
 82\$\$ 2 2 2 2 2 2 2 e
 83**
 1.0000000e+07 8.0000000e+06 6.5000000e+06 5.0000000e+06 4.0000000e+06

Attachment 1

3.0000000e+06 2.5000000e+06 2.0000000e+06 1.6600000e+06 1.3300000e+06
 1.0000000e+06 8.0000000e+05 6.0000000e+05 4.0000000e+05 3.0000000e+05
 2.0000000e+05 1.0000000e+05 5.0000000e+04 1.0000000e+04 e

84**

2.0000000e+07 8.1873000e+06 6.4340000e+06 4.8000000e+06
 3.0000000e+06 2.4790000e+06 2.3540000e+06 1.8500000e+06 1.4000000e+06
 9.0000000e+05 4.0000000e+05 1.0000000e+05 2.5000000e+04 1.7000000e+04
 3.0000000e+03 5.5000000e+02 1.0000000e+02 3.0000000e+01 1.0000000e+01
 8.1000000e+00 6.0000000e+00 4.7500000e+00 3.0000000e+00 1.7700000e+00
 1.0000000e+00 6.2500000e-01 4.0000000e-01 3.7500000e-01 e

t

56\$\$ 0 0 a10 1 e t

56\$\$ 0 0 a10 2 e t

56\$\$ 0 0 a10 3 e t

56\$\$ 0 0 a10 4 e t

56\$\$ 0 0 a10 5 e t

56\$\$ 0 0 a10 6 e t

56\$\$ 0 0 a10 7 e t

56\$\$ f0 t

end

=opus

LIBUNIT=33

TYPARAMS=NUCLIDES

UNITS=WATTS

LIBTYPE=ALL

TIME=YEARS

NPOSITION=1 2 3 4 5 6 7 end

end

#shell

copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\10Y\10Y_2.f71"

del ft71f001

end

20Y 1.inp

'This SCALE input file was generated by

'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010

=arp

ge10x10-8

2.989

3

374.7984

374.7984

374.7984

28.94

28.94

Attachment 1

28.94
1
1
1
0.429
ft33f001
end
#origens
0\$\$ a4 33 a11 71 e t
ge10x10-8
3\$\$ 33 a3 1 27 a16 2 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 1 -20Y_1
1 MTU
58** 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94
60** 37.47984 74.95969 112.4395 149.9194 187.3992 224.8791 262.3589
299.8387 337.3186 374.7984
66\$\$ a1 2 a5 2 a9 2 e
73\$\$ 922340 922350 922360 922380
74** 266.021 29890 137.494 969706.5
75\$\$ 2 2 2 2
t
ge10x10-8
3\$\$ 33 a3 2 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e
57** 374.7984 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 2 -20Y_1
1 MTU
58** 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94
60** 412.2783 449.7581 487.238 524.7178 562.1977 599.6775 637.1573
674.6372 712.117 749.5969
66\$\$ a1 2 a5 2 a9 2 e t
ge10x10-8
3\$\$ 33 a3 3 27 a33 18 e t
35\$\$ 0 t
56\$\$ 10 10 a10 10 a15 3 a18 1 e
57** 749.5969 a3 1e-05 0.3333333 e
95\$\$ 0 t
Cycle 3 -20Y_1
1 MTU
58** 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94

Attachment 1

60** 787.0767 824.5566 862.0364 899.5163 936.9961 974.476 1011.956
 1049.436 1086.915 1124.395
 66\$\$ a1 2 a5 2 a9 2 e t
 54\$\$ a8 1 a11 0 e
 56\$\$ a2 10 a6 1 a10 10 a14 5 a15 3 a17 2 e
 57** 0 a3 1e-05 e
 95\$\$ 0 t
 Cycle 3 Down - 20Y_1
 1 MTU
 60** 0 3 9 20 21 21.25 21.5 22 23 25
 61** f0.05
 65\$\$
 'Gram-Atoms Grams Curies Watts-All Watts-Gamma
 3z 1 0 0 3z 3z 3z 6z
 3z 1 0 0 3z 3z 3z 6z
 3z 1 0 0 3z 3z 3z 6z
 81\$\$ 2 0 26 1 a7 200 e
 82\$\$ 2 2 2 2 2 2 2 2 2 2 e
 83**
 1.000000e+07 8.000000e+06 6.500000e+06 5.000000e+06 4.000000e+06
 3.000000e+06 2.500000e+06 2.000000e+06 1.660000e+06 1.330000e+06
 1.000000e+06 8.000000e+05 6.000000e+05 4.000000e+05 3.000000e+05
 2.000000e+05 1.000000e+05 5.000000e+04 1.000000e+04 e
 84**
 2.000000e+07 8.187300e+06 6.434000e+06 4.800000e+06
 3.000000e+06 2.479000e+06 2.354000e+06 1.850000e+06 1.400000e+06
 9.000000e+05 4.000000e+05 1.000000e+05 2.500000e+04 1.700000e+04
 3.000000e+03 5.500000e+02 1.000000e+02 3.000000e+01 1.000000e+01
 8.100000e+00 6.000000e+00 4.750000e+00 3.000000e+00 1.770000e+00
 1.000000e+00 6.250000e-01 4.000000e-01 3.750000e-01 e
 t
 56\$\$ 0 0 a10 1 e t
 56\$\$ 0 0 a10 2 e t
 56\$\$ 0 0 a10 3 e t
 56\$\$ 0 0 a10 4 e t
 56\$\$ 0 0 a10 5 e t
 56\$\$ 0 0 a10 6 e t
 56\$\$ 0 0 a10 7 e t
 56\$\$ 0 0 a10 8 e t
 56\$\$ 0 0 a10 9 e t
 56\$\$ 0 0 a10 10 e t
 56\$\$ f0 t
 end
 =opus
 LIBUNIT=33
 TYPARAMS=NUCLIDES

Attachment 1

```

UNITS=WATTS
LIBTYPE=ALL
TIME=YEARS
NPOSITION=1 2 3 4 5 6 7 8 9 10 end
end
#shell
copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\20Y\20Y_1.f71"
del ft71f001
end

```

20Y 2.inp

```

'This SCALE input file was generated by
'OrigenArp Version 6.1 Compiled on Thu Oct 7 11:31:00 2010
=arp
ge10x10-8
2.989
3
374.7984
374.7984
374.7984
28.94
28.94
28.94
1
1
1
0.429
ft33f001
end
#origens
0$$ a4 33 a11 71 e t
ge10x10-8
3$$ 33 a3 1 27 a16 2 a33 18 e t
35$$ 0 t
56$$ 10 10 a6 3 a10 0 a13 4 a15 3 a18 1 e
57** 0 a3 1e-05 0.3333333 e
95$$ 0 t
Cycle 1 -20Y_1
1 MTU
58** 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94
60** 37.47984 74.95969 112.4395 149.9194 187.3992 224.8791 262.3589
299.8387 337.3186 374.7984
66$$ a1 2 a5 2 a9 2 e
73$$ 922340 922350 922360 922380
74** 266.021 29890 137.494 969706.5

```


Attachment 1

75\$\$ 2 2 2 2

t

ge10x10-8

3\$\$ 33 a3 2 27 a33 18 e t

35\$\$ 0 t

56\$\$ 10 10 a6 3 a10 10 a15 3 a18 1 e

57** 374.7984 a3 1e-05 0.3333333 e

95\$\$ 0 t

Cycle 2 -20Y_1

1 MTU

58** 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94

60** 412.2783 449.7581 487.238 524.7178 562.1977 599.6775 637.1573

674.6372 712.117 749.5969

66\$\$ a1 2 a5 2 a9 2 e t

ge10x10-8

3\$\$ 33 a3 3 27 a33 18 e t

35\$\$ 0 t

56\$\$ 10 10 a10 10 a15 3 a18 1 e

57** 749.5969 a3 1e-05 0.3333333 e

95\$\$ 0 t

Cycle 3 -20Y_1

1 MTU

58** 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94 28.94

60** 787.0767 824.5566 862.0364 899.5163 936.9961 974.476 1011.956

1049.436 1086.915 1124.395

66\$\$ a1 2 a5 2 a9 2 e t

54\$\$ a8 1 a11 0 e

56\$\$ a2 7 a6 1 a10 10 a14 5 a15 3 a17 2 e

57** 0 a3 1e-05 e

95\$\$ 0 t

Cycle 3 Down - 20Y_1

1 MTU

60** 0 3 9 20 20.75 20.83 20.92

61** f0.05

65\$\$

'Gram-Atoms Grams Curies Watts-All Watts-Gamma

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

3z 1 0 0 3z 3z 3z 6z

81\$\$ 2 0 26 1 a7 200 e

82\$\$ 2 2 2 2 2 2 2 e

83**

1.000000e+07 8.000000e+06 6.500000e+06 5.000000e+06 4.000000e+06

3.000000e+06 2.500000e+06 2.000000e+06 1.660000e+06 1.330000e+06

1.000000e+06 8.000000e+05 6.000000e+05 4.000000e+05 3.000000e+05

2.000000e+05 1.000000e+05 5.000000e+04 1.000000e+04 e

Attachment 1

84**

2.0000000e+07 8.1873000e+06 6.4340000e+06 4.8000000e+06
3.0000000e+06 2.4790000e+06 2.3540000e+06 1.8500000e+06 1.4000000e+06
9.0000000e+05 4.0000000e+05 1.0000000e+05 2.5000000e+04 1.7000000e+04
3.0000000e+03 5.5000000e+02 1.0000000e+02 3.0000000e+01 1.0000000e+01
8.1000000e+00 6.0000000e+00 4.7500000e+00 3.0000000e+00 1.7700000e+00
1.0000000e+00 6.2500000e-01 4.0000000e-01 3.7500000e-01 e

t

56\$\$ 0 0 a10 1 e t

56\$\$ 0 0 a10 2 e t

56\$\$ 0 0 a10 3 e t

56\$\$ 0 0 a10 4 e t

56\$\$ 0 0 a10 5 e t

56\$\$ 0 0 a10 6 e t

56\$\$ 0 0 a10 7 e t

56\$\$ f0 t

end

=opus

LIBUNIT=33

TYPARAMS=NUCLIDES

UNITS=WATTS

LIBTYPE=ALL

TIME=YEARS

NPOSITION=1 2 3 4 5 6 7 end

end

#shell

copy ft71f001 "D:\Projects\RabaioliBrosius\DAEC_Shine_ORIGEN\20Y\20Y_2.f71"

del ft71f001

end

Attachment 2

Attachment 2: MCNP5 Inputs**75Y.i**

DAEC SFP Drain Down Dose Calculation, 0.75 yr of additional decay time

c A. Rabaioli-Brosius, ENERCON

c MCNP5, Source from 2123 Assemblies

c Cell Cards

1 1 -10.41 -1 u=1 imp:p=1 \$ Fuel rod

2 0 +1 -2 u=1 imp:p=1 \$ Gap

3 2 -6.56 +2 -3 u=1 imp:p=1 \$ Cladding

4 0 +3 u=1 imp:p=1 \$ Void outside fuel rod

5 0 -4 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Inside water rod

6 2 -6.56 +4 -5 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Water rod

7 like 5 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Inside water rod

8 like 6 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Water rod

c GNF2 10x10 lattice

11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 3 3 1 1 1

1 1 1 1 1 3 3 1 1 1

1 1 1 3 3 1 1 1 1 1

1 1 1 3 3 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1 imp:p=1

20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 \$ Active fuel zone

21 0 -8 u=4 imp:p=1 \$ Lower nozzle

22 3 -0.54 +9 u=4 imp:p=1 \$ Upper nozzle

c Rack Array

24 0 -7 fill=4 u=5 imp:p=1 \$ Cooled 0 yrs inside assembly

25 0 +7 -10 u=5 imp:p=1 \$ Cooled 0 yrs void outside assembly

26 3 -7.94 +10 -13 u=5 imp:p=1 \$ Cooled 0 yrs fuel

30 0 +10 +13 #24 u=5 imp:p=1 \$ Cooled 0 yrs void directly above racks

124 0 -7 fill=4 u=6 imp:p=1 \$ Cooled 2 yrs inside assembly

125 0 +7 -10 u=6 imp:p=1 \$ Cooled 2 yrs void outside assembly

126 3 -7.94 +10 -13 u=6 imp:p=1 \$ Cooled 2 yrs fuel

130 0 +10 +13 #124 u=6 imp:p=1 \$ Cooled 2 yrs void directly above racks

224 0 -7 fill=4 u=7 imp:p=1 \$ Cooled 4 yrs inside assembly

225 0 +7 -10 u=7 imp:p=1 \$ Cooled 4 yrs void outside assembly

226 3 -7.94 +10 -13 u=7 imp:p=1 \$ Cooled 4 yrs fuel

230 0 +10 +13 #224 u=7 imp:p=1 \$ Cooled 4 yrs void directly above racks

324 0 -7 fill=4 u=8 imp:p=1 \$ Cooled 6 yrs inside assembly

325 0 +7 -10 u=8 imp:p=1 \$ Cooled 6 yrs void outside assembly

Attachment 2

326 3 -7.94 +10 -13 u=8 imp:p=1 \$ Cooled 6 yrs fuel
 330 0 +10 +13 #324 u=8 imp:p=1 \$ Cooled 6 yrs void directly above racks
 424 0 -7 fill=4 u=9 imp:p=1 \$ Cooled 10 yrs inside assembly
 425 0 +7 -10 u=9 imp:p=1 \$ Cooled 10 yrs void outside assembly
 426 3 -7.94 +10 -13 u=9 imp:p=1 \$ Cooled 10 yrs fuel
 430 0 +10 +13 #424 u=9 imp:p=1 \$ Cooled 10 yrs void directly above racks
 524 0 -7 fill=4 u=10 imp:p=1 \$ Cooled 20 yrs inside assembly
 525 0 +7 -10 u=10 imp:p=1 \$ Cooled 20 yrs void outside assembly
 526 3 -7.94 +10 -13 u=10 imp:p=1 \$ Cooled 20 yrs fuel
 530 0 +10 +13 #524 u=10 imp:p=1 \$ Cooled 20 yrs void directly above racks
 624 0 -7 u=11 imp:p=1 \$ No assembly
 625 0 +7 -10 u=11 imp:p=1 \$ No assembly void outside assembly
 626 3 -7.94 +10 -13 u=11 imp:p=1 \$ No assembly Fuel
 630 0 +10 +13 #624 u=11 imp:p=1 \$ No assembly void directly above racks
 27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0
 11 478R \$ 479 empty rack cells
 10 548R \$ 549 cooled 20 yrs
 9 640R \$ 641 cooled 10 yrs
 8 260R \$ 261 cooled 6 yrs
 7 151R \$ 152 cooled 4 yrs
 6 151R \$ 152 cooled 2 yrs
 5 367R \$ 368 cooled 1 yr
 11 478R imp:p=1 \$ 479 empty rack cells
 28 0 -12 fill=13 imp:p=1 \$ Rack array
 41 0 -20 -500 #28 imp:p=1 \$ Pool
 42 0 -20 +500 imp:p=1 \$ Air space within pool
 43 3 -7.94 +20 -23 imp:p=1 \$ Pool liner
 44 4 -2.3 +23 -24 imp:p=1 \$ Concrete surrounding pool
 46 0 -26 imp:p=1 \$ Space above pool
 47 0 +24 +26 -999 imp:p=1 \$ Exterior
 999 0 +999 imp:p=0 \$ Universe

c Surface Cards

1 rcc 0 0 48.097 0 0 381 0.444 \$ Active Fuel
 2 rcc 0 0 48.097 0 0 381 0.453 \$ Clad Interior
 3 rcc 0 0 48.097 0 0 381 0.513 \$ Clad Exterior
 4 rcc 0 0 48.097 0 0 381 1.1685 \$ Water Rod Interior
 5 rcc 0 0 48.097 0 0 381 1.2445 \$ Water Rod Exterior
 6 rpp -0.6475 0.6475 -0.6475 0.6475 48.097 429.097 \$ Pin Cell
 7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707 \$ Assembly Envelope
 8 pz 48.097 \$ Lower Nozzle and Plenum Cut Plane
 9 pz 429.097 \$ Upper Nozzle and Plenum Cut Plane
 c Spent Fuel Rack
 10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47 \$ Rack Interior
 11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 \$ Rack Envelope
 12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707 \$ Rack Array Boundary

Attachment 2

13 pz 458.47 \$ Rack Top Cut Plane
 c Pool
 20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 \$ Spent Fuel Pool
 23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 \$ Pool Liner
 24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 \$ Pool Concrete
 26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 \$ Space Above Pool
 500 pz 1161.1584 \$ Top of Pool -30 cm
 c Universe
 999 rpp -5000 5000 -5000 5000 -5000 5000 \$ Universe

c Source Specification

mode p

sdef erg=fcel=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1

cel =d4

ds1 s d5 d6 d7 d8 d9 d10

si2 0 0.4439

sp2 -21 1

si3 -190.499 190.499

sp3 0 1

si4 1 28:27:24:20:11:1

28:27:124:20:11:1

28:27:224:20:11:1

28:27:324:20:11:1

28:27:424:20:11:1

28:27:524:20:11:1

sp4 0.6354 0.0943 0.051 0.0627 0.1047 0.0519

c 0 yrs gamma

si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp5 0.00E+00 2.13E+16 6.96E+15 7.06E+15 1.74E+15 1.35E+15 7.11E+15

1.73E+16 2.09E+15 6.02E+14 2.67E+14 3.72E+13 1.56E+14 2.32E+12

2.06E+11 1.18E+07 4.74E+06 9.30E+05 1.97E+05

c 2 yrs gamma

si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp6 0.00E+00 6.48E+15 2.02E+15 1.83E+15 4.94E+14 3.70E+14 3.47E+15

7.21E+15 1.33E+15 3.08E+14 1.17E+14 9.77E+12 2.82E+13 6.87E+11

6.27E+10 1.94E+07 7.79E+06 1.53E+06 3.24E+05

c 4 yrs gamma

si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp7 0.00E+00 3.21E+15 9.30E+14 7.52E+14 2.14E+14 1.50E+14 1.56E+15

5.27E+15 6.76E+14 1.74E+14 5.22E+13 2.49E+12 5.29E+12 1.73E+11

Attachment 2

1.60E+10 1.66E+07 6.68E+06 1.31E+06 2.78E+05

c 6 yrs gamma

si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp8 0.00E+00 2.40E+15 6.72E+14 5.07E+14 1.49E+14 9.92E+13 7.86E+14
 4.37E+15 3.70E+14 1.22E+14 2.74E+13 7.74E+11 1.03E+12 4.48E+10
 4.17E+09 1.54E+07 6.18E+06 1.21E+06 2.57E+05

c 10 yrs gamma

si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp9 0.00E+00 1.80E+15 5.06E+14 3.60E+14 1.08E+14 7.15E+13 2.19E+14
 3.22E+15 1.15E+14 6.92E+13 8.87E+12 2.13E+11 5.01E+10 3.13E+09
 2.96E+08 1.09E+07 4.37E+06 8.58E+05 1.82E+05

c 20 yrs gamma

si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp10 0.00E+00 1.08E+15 3.16E+14 2.05E+14 6.32E+13 4.30E+13 3.65E+13
 1.95E+15 1.88E+13 2.31E+13 1.77E+12 1.10E+11 5.62E+09 1.89E+08
 1.50E+07 4.97E+06 2.00E+06 3.91E+05 8.31E+04

c Materials

c UO2

m1 92000 1
 8000 2

c Zirc2

m2 40000 -0.9825
 50000 -0.0145
 26000 -0.00135
 24000 -0.001
 72000 -0.00055

c Stainless_Steel

m3 6000 -0.0008
 14000 -0.01
 15031 -0.00045
 24000 -0.19
 25055 -0.02
 26000 -0.68375
 28000 -0.095

c Concrete

m4 1001 -0.01
 8016 -0.532
 11023 -0.029
 13027 -0.034
 14000 -0.337

Attachment 2

20000 -0.044
 26000 -0.014
 c Tally Cards
 fc2 Surface Detector at Top of Pool -30 cm (surface 500)
 f2:p 500
 fm2 7.09E+18
 c
 c Problem Cutoff
 NPS 500000000
 c Print Settings
 prdmp -15 -60 1 2
 print 50 120 126

83Y.i

DAEC SFP Drain Down Dose Calculation, 0.83 yr of additional decay time

c A. Rabaioli-Brosius, ENERCON
 c MCNP5, Source from 2123 Assemblies
 c Cell Cards
 1 1 -10.41 -1 u=1 imp:p=1 \$ Fuel rod
 2 0 +1 -2 u=1 imp:p=1 \$ Gap
 3 2 -6.56 +2 -3 u=1 imp:p=1 \$ Cladding
 4 0 +3 u=1 imp:p=1 \$ Void outside fuel rod
 5 0 -4 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Inside water rod
 6 2 -6.56 +4 -5 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Water rod
 7 like 5 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Inside water rod
 8 like 6 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Water rod
 c GNF2 10x10 lattice
 11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 3 3 1 1 1 1 1
 1 1 1 3 3 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 imp:p=1
 20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 \$ Active fuel zone
 21 0 -8 u=4 imp:p=1 \$ Lower nozzle
 22 3 -0.54 +9 u=4 imp:p=1 \$ Upper nozzle
 c Rack Array
 24 0 -7 fill=4 u=5 imp:p=1 \$ Cooled 0 yrs inside assembly
 25 0 +7 -10 u=5 imp:p=1 \$ Cooled 0 yrs void outside assembly
 26 3 -7.94 +10 -13 u=5 imp:p=1 \$ Cooled 0 yrs fuel

Attachment 2

30 0 +10 +13 #24 u=5 imp:p=1 \$ Cooled 0 yrs void directly above racks
 124 0 -7 fill=4 u=6 imp:p=1 \$ Cooled 2 yrs inside assembly
 125 0 +7 -10 u=6 imp:p=1 \$ Cooled 2 yrs void outside assembly
 126 3 -7.94 +10 -13 u=6 imp:p=1 \$ Cooled 2 yrs fuel
 130 0 +10 +13 #124 u=6 imp:p=1 \$ Cooled 2 yrs void directly above racks
 224 0 -7 fill=4 u=7 imp:p=1 \$ Cooled 4 yrs inside assembly
 225 0 +7 -10 u=7 imp:p=1 \$ Cooled 4 yrs void outside assembly
 226 3 -7.94 +10 -13 u=7 imp:p=1 \$ Cooled 4 yrs fuel
 230 0 +10 +13 #224 u=7 imp:p=1 \$ Cooled 4 yrs void directly above racks
 324 0 -7 fill=4 u=8 imp:p=1 \$ Cooled 6 yrs inside assembly
 325 0 +7 -10 u=8 imp:p=1 \$ Cooled 6 yrs void outside assembly
 326 3 -7.94 +10 -13 u=8 imp:p=1 \$ Cooled 6 yrs fuel
 330 0 +10 +13 #324 u=8 imp:p=1 \$ Cooled 6 yrs void directly above racks
 424 0 -7 fill=4 u=9 imp:p=1 \$ Cooled 10 yrs inside assembly
 425 0 +7 -10 u=9 imp:p=1 \$ Cooled 10 yrs void outside assembly
 426 3 -7.94 +10 -13 u=9 imp:p=1 \$ Cooled 10 yrs fuel
 430 0 +10 +13 #424 u=9 imp:p=1 \$ Cooled 10 yrs void directly above racks
 524 0 -7 fill=4 u=10 imp:p=1 \$ Cooled 20 yrs inside assembly
 525 0 +7 -10 u=10 imp:p=1 \$ Cooled 20 yrs void outside assembly
 526 3 -7.94 +10 -13 u=10 imp:p=1 \$ Cooled 20 yrs fuel
 530 0 +10 +13 #524 u=10 imp:p=1 \$ Cooled 20 yrs void directly above racks
 624 0 -7 u=11 imp:p=1 \$ No assembly
 625 0 +7 -10 u=11 imp:p=1 \$ No assembly void outside assembly
 626 3 -7.94 +10 -13 u=11 imp:p=1 \$ No assembly Fuel
 630 0 +10 +13 #624 u=11 imp:p=1 \$ No assembly void directly above racks
 27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0
 11 478R \$ 479 empty rack cells
 10 548R \$ 549 cooled 20 yrs
 9 640R \$ 641 cooled 10 yrs
 8 260R \$ 261 cooled 6 yrs
 7 151R \$ 152 cooled 4 yrs
 6 151R \$ 152 cooled 2 yrs
 5 367R \$ 368 cooled 1 yr
 11 478R imp:p=1 \$ 479 empty rack cells
 28 0 -12 fill=13 imp:p=1 \$ Rack array
 41 0 -20 -500 #28 imp:p=1 \$ Pool
 42 0 -20 +500 imp:p=1 \$ Air space within pool
 43 3 -7.94 +20 -23 imp:p=1 \$ Pool liner
 44 4 -2.3 +23 -24 imp:p=1 \$ Concrete surrounding pool
 46 0 -26 imp:p=1 \$ Space above pool
 47 0 +24 +26 -999 imp:p=1 \$ Exterior
 999 0 +999 imp:p=0 \$ Universe

c Surface Cards

1 rcc 0 0 48.097 0 0 381 0.444 \$ Active Fuel
 2 rcc 0 0 48.097 0 0 381 0.453 \$ Clad Interior

Attachment 2

3 rcc 0 0 48.097 0 0 381 0.513 \$ Clad Exterior
 4 rcc 0 0 48.097 0 0 381 1.1685 \$ Water Rod Interior
 5 rcc 0 0 48.097 0 0 381 1.2445 \$ Water Rod Exterior
 6 rpp -0.6475 0.6475 -0.6475 0.6475 48.097 429.097 \$ Pin Cell
 7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707 \$ Assembly Envelope
 8 pz 48.097 \$ Lower Nozzle and Plenum Cut Plane
 9 pz 429.097 \$ Upper Nozzle and Plenum Cut Plane
 c Spent Fuel Rack
 10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47 \$ Rack Interior
 11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 \$ Rack Envelope
 12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707 \$ Rack Array Boundary
 13 pz 458.47 \$ Rack Top Cut Plane
 c Pool
 20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 \$ Spent Fuel Pool
 23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 \$ Pool Liner
 24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 \$ Pool Concrete
 26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 \$ Space Above Pool
 500 pz 1161.1584 \$ Top of Pool -30 cm
 c Universe
 999 rpp -5000 5000 -5000 5000 -5000 5000 \$ Universe

c Source Specification

mode p

sdef erg=fcel=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1

cel =d4

ds1 s d5 d6 d7 d8 d9 d10

si2 0 0.4439

sp2 -21 1

si3 -190.499 190.499

sp3 0 1

si4 1 28:27:24:20:11:1

28:27:124:20:11:1

28:27:224:20:11:1

28:27:324:20:11:1

28:27:424:20:11:1

28:27:524:20:11:1

sp4 0.6186 0.097 0.0532 0.0658 0.1106 0.0549

c 0 yrs gamma

si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp5 0.00E+00 1.99E+16 6.52E+15 6.58E+15 1.63E+15 1.27E+15 6.70E+15

1.49E+16 2.02E+15 5.75E+14 2.54E+14 3.50E+13 1.45E+14 2.19E+12

1.95E+11 1.15E+07 4.61E+06 9.03E+05 1.92E+05

c 2 yrs gamma

si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

Attachment 2

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp6 0.00E+00 6.24E+15 1.94E+15 1.75E+15 4.73E+14 3.53E+14 3.36E+15
 7.10E+15 1.30E+15 3.00E+14 1.13E+14 9.24E+12 2.64E+13 6.50E+11
 5.94E+10 1.93E+07 7.75E+06 1.52E+06 3.23E+05
 c 4 yrs gamma
 si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp7 0.00E+00 3.15E+15 9.11E+14 7.34E+14 2.10E+14 1.46E+14 1.52E+15
 5.22E+15 6.59E+14 1.71E+14 5.07E+13 2.37E+12 4.94E+12 1.64E+11
 1.51E+10 1.66E+07 6.66E+06 1.31E+06 2.77E+05
 c 6 yrs gamma
 si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp8 0.00E+00 2.38E+15 6.67E+14 5.02E+14 1.47E+14 9.83E+13 7.66E+14
 4.34E+15 3.61E+14 1.21E+14 2.67E+13 7.43E+11 9.68E+11 4.24E+10
 3.95E+09 1.54E+07 6.16E+06 1.21E+06 2.57E+05
 c 10 yrs gamma
 si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp9 0.00E+00 1.79E+15 5.05E+14 3.59E+14 1.08E+14 7.13E+13 2.15E+14
 3.21E+15 1.12E+14 6.87E+13 8.72E+12 2.11E+11 4.76E+10 2.98E+09
 2.82E+08 1.09E+07 4.36E+06 8.55E+05 1.82E+05
 c 20 yrs gamma
 si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp10 0.00E+00 1.08E+15 3.15E+14 2.05E+14 6.31E+13 4.29E+13 3.64E+13
 1.95E+15 1.87E+13 2.30E+13 1.76E+12 1.09E+11 5.61E+09 1.88E+08
 1.50E+07 4.96E+06 1.99E+06 3.90E+05 8.28E+04
 c Materials
 c UO2
 m1 92000 1
 8000 2
 c Zirc2
 m2 40000 -0.9825
 50000 -0.0145
 26000 -0.00135
 24000 -0.001
 72000 -0.00055
 c Stainless_Steel
 m3 6000 -0.0008
 14000 -0.01

Attachment 2

15031 -0.00045
 24000 -0.19
 25055 -0.02
 26000 -0.68375
 28000 -0.095
 c Concrete
 m4 1001 -0.01
 8016 -0.532
 11023 -0.029
 13027 -0.034
 14000 -0.337
 20000 -0.044
 26000 -0.014
 c Tally Cards
 fc2 Surface Detector at Top of Pool -30 cm (surface 500)
 f2:p 500
 fm2 6.69E+18
 c
 c Problem Cutoff
 NPS 500000000
 c Print Settings
 prdmp -15 -60 1 2
 print 50 120 126

92Y.i

DAEC SFP Drain Down Dose Calculation, 0.92 yr of additional decay time

c A. Rabaioli-Brosius, ENERCON
 c MCNP5, Source from 2123 Assemblies
 c Cell Cards
 1 1 -10.41 -1 u=1 imp:p=1 \$ Fuel rod
 2 0 +1 -2 u=1 imp:p=1 \$ Gap
 3 2 -6.56 +2 -3 u=1 imp:p=1 \$ Cladding
 4 0 +3 u=1 imp:p=1 \$ Void outside fuel rod
 5 0 -4 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Inside water rod
 6 2 -6.56 +4 -5 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Water rod
 7 like 5 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Inside water rod
 8 like 6 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Water rod
 c GNF2 10x10 lattice
 11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 3 3 1 1 1 1 1

Attachment 2

1 1 1 3 3 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 imp:p=1
 20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 \$ Active fuel zone
 21 0 -8 u=4 imp:p=1 \$ Lower nozzle
 22 3 -0.54 +9 u=4 imp:p=1 \$ Upper nozzle
 c Rack Array
 24 0 -7 fill=4 u=5 imp:p=1 \$ Cooled 0 yrs inside assembly
 25 0 +7 -10 u=5 imp:p=1 \$ Cooled 0 yrs void outside assembly
 26 3 -7.94 +10 -13 u=5 imp:p=1 \$ Cooled 0 yrs fuel
 30 0 +10 +13 #24 u=5 imp:p=1 \$ Cooled 0 yrs void directly above racks
 124 0 -7 fill=4 u=6 imp:p=1 \$ Cooled 2 yrs inside assembly
 125 0 +7 -10 u=6 imp:p=1 \$ Cooled 2 yrs void outside assembly
 126 3 -7.94 +10 -13 u=6 imp:p=1 \$ Cooled 2 yrs fuel
 130 0 +10 +13 #124 u=6 imp:p=1 \$ Cooled 2 yrs void directly above racks
 224 0 -7 fill=4 u=7 imp:p=1 \$ Cooled 4 yrs inside assembly
 225 0 +7 -10 u=7 imp:p=1 \$ Cooled 4 yrs void outside assembly
 226 3 -7.94 +10 -13 u=7 imp:p=1 \$ Cooled 4 yrs fuel
 230 0 +10 +13 #224 u=7 imp:p=1 \$ Cooled 4 yrs void directly above racks
 324 0 -7 fill=4 u=8 imp:p=1 \$ Cooled 6 yrs inside assembly
 325 0 +7 -10 u=8 imp:p=1 \$ Cooled 6 yrs void outside assembly
 326 3 -7.94 +10 -13 u=8 imp:p=1 \$ Cooled 6 yrs fuel
 330 0 +10 +13 #324 u=8 imp:p=1 \$ Cooled 6 yrs void directly above racks
 424 0 -7 fill=4 u=9 imp:p=1 \$ Cooled 10 yrs inside assembly
 425 0 +7 -10 u=9 imp:p=1 \$ Cooled 10 yrs void outside assembly
 426 3 -7.94 +10 -13 u=9 imp:p=1 \$ Cooled 10 yrs fuel
 430 0 +10 +13 #424 u=9 imp:p=1 \$ Cooled 10 yrs void directly above racks
 524 0 -7 fill=4 u=10 imp:p=1 \$ Cooled 20 yrs inside assembly
 525 0 +7 -10 u=10 imp:p=1 \$ Cooled 20 yrs void outside assembly
 526 3 -7.94 +10 -13 u=10 imp:p=1 \$ Cooled 20 yrs fuel
 530 0 +10 +13 #524 u=10 imp:p=1 \$ Cooled 20 yrs void directly above racks
 624 0 -7 u=11 imp:p=1 \$ No assembly
 625 0 +7 -10 u=11 imp:p=1 \$ No assembly void outside assembly
 626 3 -7.94 +10 -13 u=11 imp:p=1 \$ No assembly Fuel
 630 0 +10 +13 #624 u=11 imp:p=1 \$ No assembly void directly above racks
 27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0
 11 478R \$ 479 empty rack cells
 10 548R \$ 549 cooled 20 yrs
 9 640R \$ 641 cooled 10 yrs
 8 260R \$ 261 cooled 6 yrs
 7 151R \$ 152 cooled 4 yrs
 6 151R \$ 152 cooled 2 yrs
 5 367R \$ 368 cooled 1 yr
 11 478R imp:p=1 \$ 479 empty rack cells
 28 0 -12 fill=13 imp:p=1 \$ Rack array

Attachment 2

41 0 -20 -500 #28 imp:p=1 \$ Pool
 42 0 -20 +500 imp:p=1 \$ Air space within pool
 43 3 -7.94 +20 -23 imp:p=1 \$ Pool liner
 44 4 -2.3 +23 -24 imp:p=1 \$ Concrete surrounding pool
 46 0 -26 imp:p=1 \$ Space above pool
 47 0 +24 +26 -999 imp:p=1 \$ Exterior
 999 0 +999 imp:p=0 \$ Universe

c Surface Cards

1 rcc 0 0 48.097 0 0 381 0.444 \$ Active Fuel
 2 rcc 0 0 48.097 0 0 381 0.453 \$ Clad Interior
 3 rcc 0 0 48.097 0 0 381 0.513 \$ Clad Exterior
 4 rcc 0 0 48.097 0 0 381 1.1685 \$ Water Rod Interior
 5 rcc 0 0 48.097 0 0 381 1.2445 \$ Water Rod Exterior
 6 rpp -0.6475 0.6475 -0.6475 0.6475 48.097 429.097 \$ Pin Cell
 7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707 \$ Assembly Envelope
 8 pz 48.097 \$ Lower Nozzle and Plenum Cut Plane
 9 pz 429.097 \$ Upper Nozzle and Plenum Cut Plane

c Spent Fuel Rack

10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47 \$ Rack Interior
 11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 \$ Rack Envelope
 12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707 \$ Rack Array Boundary
 13 pz 458.47 \$ Rack Top Cut Plane

c Pool

20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 \$ Spent Fuel Pool
 23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 \$ Pool Liner
 24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 \$ Pool Concrete
 26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 \$ Space Above Pool
 500 pz 1161.1584 \$ Top of Pool -30 cm

c Universe

999 rpp -5000 5000 -5000 5000 -5000 5000 \$ Universe

c Source Specification

mode p
 sdef erg=fcel=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1
 cel =d4
 ds1 s d5 d6 d7 d8 d9 d10
 si2 0 0.4439
 sp2 -21 1
 si3 -190.499 190.499
 sp3 0 1
 si4 1 28:27:24:20:11:1
 28:27:124:20:11:1
 28:27:224:20:11:1
 28:27:324:20:11:1
 28:27:424:20:11:1

Attachment 2

28:27:524:20:11:1

sp4 0.6016 0.0993 0.0553 0.069 0.1167 0.058

c 0 yrs gamma

si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp5 0.00E+00 1.85E+16 6.07E+15 6.11E+15 1.52E+15 1.18E+15 6.33E+15
1.30E+16 1.95E+15 5.47E+14 2.41E+14 3.26E+13 1.34E+14 2.06E+12
1.84E+11 1.11E+07 4.47E+06 8.76E+05 1.86E+05

c 2 yrs gamma

si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp6 0.00E+00 5.98E+15 1.85E+15 1.66E+15 4.51E+14 3.36E+14 3.24E+15
6.99E+15 1.26E+15 2.91E+14 1.09E+14 8.67E+12 2.44E+13 6.11E+11
5.59E+10 1.92E+07 7.72E+06 1.51E+06 3.22E+05

c 4 yrs gamma

si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp7 0.00E+00 3.09E+15 8.91E+14 7.15E+14 2.05E+14 1.42E+14 1.47E+15
5.17E+15 6.41E+14 1.68E+14 4.91E+13 2.23E+12 4.59E+12 1.54E+11
1.42E+10 1.65E+07 6.64E+06 1.30E+06 2.76E+05

c 6 yrs gamma

si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp8 0.00E+00 2.36E+15 6.62E+14 4.97E+14 1.46E+14 9.72E+13 7.44E+14
4.31E+15 3.52E+14 1.19E+14 2.60E+13 7.10E+11 9.00E+11 3.99E+10
3.72E+09 1.53E+07 6.14E+06 1.21E+06 2.56E+05

c 10 yrs gamma

si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp9 0.00E+00 1.79E+15 5.03E+14 3.58E+14 1.07E+14 7.11E+13 2.10E+14
3.20E+15 1.10E+14 6.81E+13 8.56E+12 2.09E+11 4.50E+10 2.82E+09
2.67E+08 1.08E+07 4.35E+06 8.53E+05 1.81E+05

c 20 yrs gamma

si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp10 0.00E+00 1.07E+15 3.14E+14 2.04E+14 6.29E+13 4.28E+13 3.61E+13
1.94E+15 1.85E+13 2.28E+13 1.75E+12 1.09E+11 5.60E+09 1.87E+08
1.49E+07 4.94E+06 1.98E+06 3.89E+05 8.26E+04

c Materials

c UO2

Attachment 2

m1 92000 1
 8000 2
 c Zirc2
 m2 40000 -0.9825
 50000 -0.0145
 26000 -0.00135
 24000 -0.001
 72000 -0.00055
 c Stainless_Steel
 m3 6000 -0.0008
 14000 -0.01
 15031 -0.00045
 24000 -0.19
 25055 -0.02
 26000 -0.68375
 28000 -0.095
 c Concrete
 m4 1001 -0.01
 8016 -0.532
 11023 -0.029
 13027 -0.034
 14000 -0.337
 20000 -0.044
 26000 -0.014
 c Tally Cards
 fc2 Surface Detector at Top of Pool -30 cm (surface 500)
 f2:p 500
 fm2 6.31E+18
 c
 c Problem Cutoff
 NPS 500000000
 c Print Settings
 prdmp -15 -60 1 2
 print 50 120 126

1Y.i

DAEC SFP Drain Down Dose Calculation, 1 yr of additional decay time

c A. Rabaioli-Brosius, ENERCON

c MCNP5, Source from 2123 Assemblies

c Cell Cards

1 1 -10.41 -1 u=1 imp:p=1 \$ Fuel rod

2 0 +1 -2 u=1 imp:p=1 \$ Gap

3 2 -6.56 +2 -3 u=1 imp:p=1 \$ Cladding

4 0 +3 u=1 imp:p=1 \$ Void outside fuel rod

5 0 -4 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Inside water rod

Attachment 2

6 2 -6.56 +4 -5 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Water rod
 7 like 5 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Inside water rod
 8 like 6 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Water rod
 c GNF2 10x10 lattice
 11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 3 3 1 1 1 1 1
 1 1 1 3 3 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 imp:p=1
 20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 \$ Active fuel zone
 21 0 -8 u=4 imp:p=1 \$ Lower nozzle
 22 3 -0.54 +9 u=4 imp:p=1 \$ Upper nozzle
 c Rack Array
 24 0 -7 fill=4 u=5 imp:p=1 \$ Cooled 0 yrs inside assembly
 25 0 +7 -10 u=5 imp:p=1 \$ Cooled 0 yrs void outside assembly
 26 3 -7.94 +10 -13 u=5 imp:p=1 \$ Cooled 0 yrs fuel
 30 0 +10 +13 #24 u=5 imp:p=1 \$ Cooled 0 yrs void directly above racks
 124 0 -7 fill=4 u=6 imp:p=1 \$ Cooled 2 yrs inside assembly
 125 0 +7 -10 u=6 imp:p=1 \$ Cooled 2 yrs void outside assembly
 126 3 -7.94 +10 -13 u=6 imp:p=1 \$ Cooled 2 yrs fuel
 130 0 +10 +13 #124 u=6 imp:p=1 \$ Cooled 2 yrs void directly above racks
 224 0 -7 fill=4 u=7 imp:p=1 \$ Cooled 4 yrs inside assembly
 225 0 +7 -10 u=7 imp:p=1 \$ Cooled 4 yrs void outside assembly
 226 3 -7.94 +10 -13 u=7 imp:p=1 \$ Cooled 4 yrs fuel
 230 0 +10 +13 #224 u=7 imp:p=1 \$ Cooled 4 yrs void directly above racks
 324 0 -7 fill=4 u=8 imp:p=1 \$ Cooled 6 yrs inside assembly
 325 0 +7 -10 u=8 imp:p=1 \$ Cooled 6 yrs void outside assembly
 326 3 -7.94 +10 -13 u=8 imp:p=1 \$ Cooled 6 yrs fuel
 330 0 +10 +13 #324 u=8 imp:p=1 \$ Cooled 6 yrs void directly above racks
 424 0 -7 fill=4 u=9 imp:p=1 \$ Cooled 10 yrs inside assembly
 425 0 +7 -10 u=9 imp:p=1 \$ Cooled 10 yrs void outside assembly
 426 3 -7.94 +10 -13 u=9 imp:p=1 \$ Cooled 10 yrs fuel
 430 0 +10 +13 #424 u=9 imp:p=1 \$ Cooled 10 yrs void directly above racks
 524 0 -7 fill=4 u=10 imp:p=1 \$ Cooled 20 yrs inside assembly
 525 0 +7 -10 u=10 imp:p=1 \$ Cooled 20 yrs void outside assembly
 526 3 -7.94 +10 -13 u=10 imp:p=1 \$ Cooled 20 yrs fuel
 530 0 +10 +13 #524 u=10 imp:p=1 \$ Cooled 20 yrs void directly above racks
 624 0 -7 u=11 imp:p=1 \$ No assembly
 625 0 +7 -10 u=11 imp:p=1 \$ No assembly void outside assembly
 626 3 -7.94 +10 -13 u=11 imp:p=1 \$ No assembly Fuel

Attachment 2

630 0 +10 +13 #624 u=11 imp:p=1 \$ No assembly void directly above racks

27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0

11 478R \$ 479 empty rack cells

10 548R \$ 549 cooled 20 yrs

9 640R \$ 641 cooled 10 yrs

8 260R \$ 261 cooled 6 yrs

7 151R \$ 152 cooled 4 yrs

6 151R \$ 152 cooled 2 yrs

5 367R \$ 368 cooled 1 yr

11 478R imp:p=1 \$ 479 empty rack cells

28 0 -12 fill=13 imp:p=1 \$ Rack array

41 0 -20 -500 #28 imp:p=1 \$ Pool

42 0 -20 +500 imp:p=1 \$ Air space within pool

43 3 -7.94 +20 -23 imp:p=1 \$ Pool liner

44 4 -2.3 +23 -24 imp:p=1 \$ Concrete surrounding pool

46 0 -26 imp:p=1 \$ Space above pool

47 0 +24 +26 -999 imp:p=1 \$ Exterior

999 0 +999 imp:p=0 \$ Universe

c Surface Cards

1 rcc 0 0 48.097 0 0 381 0.444 \$ Active Fuel

2 rcc 0 0 48.097 0 0 381 0.453 \$ Clad Interior

3 rcc 0 0 48.097 0 0 381 0.513 \$ Clad Exterior

4 rcc 0 0 48.097 0 0 381 1.1685 \$ Water Rod Interior

5 rcc 0 0 48.097 0 0 381 1.2445 \$ Water Rod Exterior

6 rpp -0.6475 0.6475 -0.6475 0.6475 48.097 429.097 \$ Pin Cell

7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707 \$ Assembly Envelope

8 pz 48.097 \$ Lower Nozzle and Plenum Cut Plane

9 pz 429.097 \$ Upper Nozzle and Plenum Cut Plane

c Spent Fuel Rack

10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47 \$ Rack Interior

11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 \$ Rack Envelope

12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707 \$ Rack Array Boundary

13 pz 458.47 \$ Rack Top Cut Plane

c Pool

20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 \$ Spent Fuel Pool

23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 \$ Pool Liner

24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 \$ Pool Concrete

26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 \$ Space Above Pool

500 pz 1161.1584 \$ Top of Pool -30 cm

c Universe

999 rpp -5000 5000 -5000 5000 -5000 5000 \$ Universe

c Source Specification

mode p

sdef erg=fcel=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1

Attachment 2

cel =d4
ds1 s d5 d6 d7 d8 d9 d10
si2 0 0.4439
sp2 -21 1
si3 -190.499 190.499
sp3 0 1
si4 1 28:27:24:20:11:1
28:27:124:20:11:1
28:27:224:20:11:1
28:27:324:20:11:1
28:27:424:20:11:1
28:27:524:20:11:1
sp4 0.5879 0.101 0.057 0.0717 0.1217 0.0606
c 0 yrs gamma
si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp5 0.00E+00 1.74E+16 5.71E+15 5.72E+15 1.43E+15 1.11E+15 6.04E+15
1.16E+16 1.89E+15 5.25E+14 2.30E+14 3.07E+13 1.25E+14 1.95E+12
1.74E+11 1.09E+07 4.36E+06 8.55E+05 1.82E+05
c 2 yrs gamma
si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp6 0.00E+00 5.76E+15 1.78E+15 1.59E+15 4.32E+14 3.21E+14 3.13E+15
6.89E+15 1.23E+15 2.83E+14 1.05E+14 8.20E+12 2.28E+13 5.78E+11
5.29E+10 1.92E+07 7.69E+06 1.51E+06 3.20E+05
c 4 yrs gamma
si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp7 0.00E+00 3.04E+15 8.75E+14 6.99E+14 2.00E+14 1.39E+14 1.43E+15
5.12E+15 6.25E+14 1.65E+14 4.78E+13 2.12E+12 4.29E+12 1.46E+11
1.35E+10 1.65E+07 6.62E+06 1.30E+06 2.76E+05
c 6 yrs gamma
si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp8 0.00E+00 2.35E+15 6.57E+14 4.93E+14 1.45E+14 9.63E+13 7.24E+14
4.28E+15 3.43E+14 1.18E+14 2.54E+13 6.83E+11 8.44E+11 3.78E+10
3.52E+09 1.53E+07 6.12E+06 1.20E+06 2.55E+05
c 10 yrs gamma
si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp9 0.00E+00 1.78E+15 5.02E+14 3.57E+14 1.07E+14 7.09E+13 2.05E+14

Attachment 2

3.19E+15 1.08E+14 6.76E+13 8.41E+12 2.07E+11 4.28E+10 2.69E+09
2.54E+08 1.08E+07 4.33E+06 8.50E+05 1.81E+05

c 20 yrs gamma

si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp10 0.00E+00 1.07E+15 3.14E+14 2.04E+14 6.28E+13 4.27E+13 3.59E+13
1.94E+15 1.84E+13 2.27E+13 1.74E+12 1.09E+11 5.58E+09 1.88E+08
1.49E+07 4.93E+06 1.98E+06 3.88E+05 8.23E+04

c Materials

c UO2

m1 92000 1
8000 2

c Zirc2

m2 40000 -0.9825
50000 -0.0145
26000 -0.00135
24000 -0.001
72000 -0.00055

c Stainless_Steel

m3 6000 -0.0008
14000 -0.01
15031 -0.00045
24000 -0.19
25055 -0.02
26000 -0.68375
28000 -0.095

c Concrete

m4 1001 -0.01
8016 -0.532
11023 -0.029
13027 -0.034
14000 -0.337
20000 -0.044
26000 -0.014

c Tally Cards

fc2 Surface Detector at Top of Pool -30 cm (surface 500)

f2:p 500

fm2 6.03E+18

c

c Problem Cutoff

NPS 500000000

c Print Settings

prdmp -15 -60 1 2

print 50 120 126

Attachment 2

125Y.i

DAEC SFP Drain Down Dose Calculation, 1.25 yr of additional decay time

c A. Rabaioli-Brosius, ENERCON

c MCNP5, Source from 2123 Assemblies

c Cell Cards

1 1 -10.41 -1 u=1 imp:p=1 \$ Fuel rod

2 0 +1 -2 u=1 imp:p=1 \$ Gap

3 2 -6.56 +2 -3 u=1 imp:p=1 \$ Cladding

4 0 +3 u=1 imp:p=1 \$ Void outside fuel rod

5 0 -4 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Inside water rod

6 2 -6.56 +4 -5 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Water rod

7 like 5 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Inside water rod

8 like 6 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Water rod

c GNF2 10x10 lattice

11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 3 3 1 1 1

1 1 1 1 1 3 3 1 1 1

1 1 1 3 3 1 1 1 1 1

1 1 1 3 3 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1 imp:p=1

20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 \$ Active fuel zone

21 0 -8 u=4 imp:p=1 \$ Lower nozzle

22 3 -0.54 +9 u=4 imp:p=1 \$ Upper nozzle

c Rack Array

24 0 -7 fill=4 u=5 imp:p=1 \$ Cooled 0 yrs inside assembly

25 0 +7 -10 u=5 imp:p=1 \$ Cooled 0 yrs void outside assembly

26 3 -7.94 +10 -13 u=5 imp:p=1 \$ Cooled 0 yrs fuel

30 0 +10 +13 #24 u=5 imp:p=1 \$ Cooled 0 yrs void directly above racks

124 0 -7 fill=4 u=6 imp:p=1 \$ Cooled 2 yrs inside assembly

125 0 +7 -10 u=6 imp:p=1 \$ Cooled 2 yrs void outside assembly

126 3 -7.94 +10 -13 u=6 imp:p=1 \$ Cooled 2 yrs fuel

130 0 +10 +13 #124 u=6 imp:p=1 \$ Cooled 2 yrs void directly above racks

224 0 -7 fill=4 u=7 imp:p=1 \$ Cooled 4 yrs inside assembly

225 0 +7 -10 u=7 imp:p=1 \$ Cooled 4 yrs void outside assembly

226 3 -7.94 +10 -13 u=7 imp:p=1 \$ Cooled 4 yrs fuel

230 0 +10 +13 #224 u=7 imp:p=1 \$ Cooled 4 yrs void directly above racks

324 0 -7 fill=4 u=8 imp:p=1 \$ Cooled 6 yrs inside assembly

325 0 +7 -10 u=8 imp:p=1 \$ Cooled 6 yrs void outside assembly

326 3 -7.94 +10 -13 u=8 imp:p=1 \$ Cooled 6 yrs fuel

330 0 +10 +13 #324 u=8 imp:p=1 \$ Cooled 6 yrs void directly above racks

Attachment 2

424 0 -7 fill=4 u=9 imp:p=1 \$ Cooled 10 yrs inside assembly
 425 0 +7 -10 u=9 imp:p=1 \$ Cooled 10 yrs void outside assembly
 426 3 -7.94 +10 -13 u=9 imp:p=1 \$ Cooled 10 yrs fuel
 430 0 +10 +13 #424 u=9 imp:p=1 \$ Cooled 10 yrs void directly above racks
 524 0 -7 fill=4 u=10 imp:p=1 \$ Cooled 20 yrs inside assembly
 525 0 +7 -10 u=10 imp:p=1 \$ Cooled 20 yrs void outside assembly
 526 3 -7.94 +10 -13 u=10 imp:p=1 \$ Cooled 20 yrs fuel
 530 0 +10 +13 #524 u=10 imp:p=1 \$ Cooled 20 yrs void directly above racks
 624 0 -7 u=11 imp:p=1 \$ No assembly
 625 0 +7 -10 u=11 imp:p=1 \$ No assembly void outside assembly
 626 3 -7.94 +10 -13 u=11 imp:p=1 \$ No assembly Fuel
 630 0 +10 +13 #624 u=11 imp:p=1 \$ No assembly void directly above racks
 27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0
 11 478R \$ 479 empty rack cells
 10 548R \$ 549 cooled 20 yrs
 9 640R \$ 641 cooled 10 yrs
 8 260R \$ 261 cooled 6 yrs
 7 151R \$ 152 cooled 4 yrs
 6 151R \$ 152 cooled 2 yrs
 5 367R \$ 368 cooled 1 yr
 11 478R imp:p=1 \$ 479 empty rack cells
 28 0 -12 fill=13 imp:p=1 \$ Rack array
 41 0 -20 -500 #28 imp:p=1 \$ Pool
 42 0 -20 +500 imp:p=1 \$ Air space within pool
 43 3 -7.94 +20 -23 imp:p=1 \$ Pool liner
 44 4 -2.3 +23 -24 imp:p=1 \$ Concrete surrounding pool
 46 0 -26 imp:p=1 \$ Space above pool
 47 0 +24 +26 -999 imp:p=1 \$ Exterior
 999 0 +999 imp:p=0 \$ Universe

c Surface Cards

1 rcc 0 0 48.097 0 0 381 0.444 \$ Active Fuel
 2 rcc 0 0 48.097 0 0 381 0.453 \$ Clad Interior
 3 rcc 0 0 48.097 0 0 381 0.513 \$ Clad Exterior
 4 rcc 0 0 48.097 0 0 381 1.1685 \$ Water Rod Interior
 5 rcc 0 0 48.097 0 0 381 1.2445 \$ Water Rod Exterior
 6 rpp -0.6475 0.6475 -0.6475 0.6475 48.097 429.097 \$ Pin Cell
 7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707 \$ Assembly Envelope
 8 pz 48.097 \$ Lower Nozzle and Plenum Cut Plane
 9 pz 429.097 \$ Upper Nozzle and Plenum Cut Plane

c Spent Fuel Rack

10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47 \$ Rack Interior
 11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 \$ Rack Envelope
 12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707 \$ Rack Array Boundary
 13 pz 458.47 \$ Rack Top Cut Plane

c Pool

Attachment 2

20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 \$ Spent Fuel Pool
 23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 \$ Pool Liner
 24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 \$ Pool Concrete
 26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 \$ Space Above Pool
 500 pz 1161.1584 \$ Top of Pool -30 cm
 c Universe
 999 rpp -5000 5000 -5000 5000 -5000 5000 \$ Universe

c Source Specification

mode p

sdef erg=fccl=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1

cel =d4

ds1 s d5 d6 d7 d8 d9 d10

si2 0 0.4439

sp2 -21 1

si3 -190.499 190.499

sp3 0 1

si4 1 28:27:24:20:11:1

28:27:124:20:11:1

28:27:224:20:11:1

28:27:324:20:11:1

28:27:424:20:11:1

28:27:524:20:11:1

sp4 0.5512 0.1045 0.0614 0.0789 0.1359 0.0681

c 0 yrs gamma

si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp5 0.00E+00 1.45E+16 4.74E+15 4.71E+15 1.18E+15 9.19E+14 5.30E+15

9.16E+15 1.71E+15 4.62E+14 1.99E+14 2.55E+13 1.01E+14 1.64E+12

1.47E+11 1.02E+07 4.09E+06 8.02E+05 1.70E+05

c 2 yrs gamma

si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp6 0.00E+00 5.17E+15 1.58E+15 1.39E+15 3.81E+14 2.81E+14 2.83E+15

6.60E+15 1.13E+15 2.62E+14 9.45E+13 6.88E+12 1.85E+13 4.87E+11

4.46E+10 1.89E+07 7.60E+06 1.49E+06 3.17E+05

c 4 yrs gamma

si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp7 0.00E+00 2.90E+15 8.29E+14 6.55E+14 1.89E+14 1.30E+14 1.30E+15

4.99E+15 5.78E+14 1.57E+14 4.38E+13 1.81E+12 3.48E+12 1.23E+11

1.14E+10 1.63E+07 6.55E+06 1.29E+06 2.73E+05

c 6 yrs gamma

Attachment 2

si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp8 0.00E+00 2.30E+15 6.43E+14 4.80E+14 1.41E+14 9.38E+13 6.68E+14
 4.21E+15 3.19E+14 1.14E+14 2.36E+13 6.06E+11 6.90E+11 3.19E+10
 2.98E+09 1.51E+07 6.07E+06 1.19E+06 2.53E+05
 c 10 yrs gamma
 si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp9 0.00E+00 1.77E+15 4.99E+14 3.53E+14 1.06E+14 7.03E+13 1.93E+14
 3.16E+15 1.02E+14 6.60E+13 7.99E+12 2.01E+11 3.68E+10 2.32E+09
 2.19E+08 1.07E+07 4.29E+06 8.42E+05 1.79E+05
 c 20 yrs gamma
 si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp10 0.00E+00 1.06E+15 3.12E+14 2.02E+14 6.24E+13 4.24E+13 3.54E+13
 1.93E+15 1.80E+13 2.23E+13 1.71E+12 1.08E+11 5.55E+09 1.87E+08
 1.47E+07 4.88E+06 1.96E+06 3.84E+05 8.16E+04
 c Materials
 c UO2
 m1 92000 1
 8000 2
 c Zirc2
 m2 40000 -0.9825
 50000 -0.0145
 26000 -0.00135
 24000 -0.001
 72000 -0.00055
 c Stainless_Steel
 m3 6000 -0.0008
 14000 -0.01
 15031 -0.00045
 24000 -0.19
 25055 -0.02
 26000 -0.68375
 28000 -0.095
 c Concrete
 m4 1001 -0.01
 8016 -0.532
 11023 -0.029
 13027 -0.034
 14000 -0.337
 20000 -0.044
 26000 -0.014

Attachment 2

c Tally Cards
 fc2 Surface Detector at Top of Pool -30 cm (surface 500)
 f2:p 500
 fm2 5.34E+18
 c
 c Problem Cutoff
 NPS 500000000
 c Print Settings
 prdmp -15 -60 1 2
 print 50 120 126

15Y.i

DAEC SFP Drain Down Dose Calculation, 1.5 yr of additional decay time

c A. Rabaioli-Brosius, ENERCON

c MCNP5, Source from 2123 Assemblies

c Cell Cards

1 1 -10.41 -1 u=1 imp:p=1 \$ Fuel rod

2 0 +1 -2 u=1 imp:p=1 \$ Gap

3 2 -6.56 +2 -3 u=1 imp:p=1 \$ Cladding

4 0 +3 u=1 imp:p=1 \$ Void outside fuel rod

5 0 -4 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Inside water rod

6 2 -6.56 +4 -5 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Water rod

7 like 5 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Inside water rod

8 like 6 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Water rod

c GNF2 10x10 lattice

11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 3 3 1 1 1

1 1 1 1 1 3 3 1 1 1

1 1 1 3 3 1 1 1 1 1

1 1 1 3 3 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1 imp:p=1

20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 \$ Active fuel zone

21 0 -8 u=4 imp:p=1 \$ Lower nozzle

22 3 -0.54 +9 u=4 imp:p=1 \$ Upper nozzle

c Rack Array

24 0 -7 fill=4 u=5 imp:p=1 \$ Cooled 0 yrs inside assembly

25 0 +7 -10 u=5 imp:p=1 \$ Cooled 0 yrs void outside assembly

26 3 -7.94 +10 -13 u=5 imp:p=1 \$ Cooled 0 yrs fuel

30 0 +10 +13 #24 u=5 imp:p=1 \$ Cooled 0 yrs void directly above racks

124 0 -7 fill=4 u=6 imp:p=1 \$ Cooled 2 yrs inside assembly

Attachment 2

125 0 +7 -10 u=6 imp:p=1 \$ Cooled 2 yrs void outside assembly
 126 3 -7.94 +10 -13 u=6 imp:p=1 \$ Cooled 2 yrs fuel
 130 0 +10 +13 #124 u=6 imp:p=1 \$ Cooled 2 yrs void directly above racks
 224 0 -7 fill=4 u=7 imp:p=1 \$ Cooled 4 yrs inside assembly
 225 0 +7 -10 u=7 imp:p=1 \$ Cooled 4 yrs void outside assembly
 226 3 -7.94 +10 -13 u=7 imp:p=1 \$ Cooled 4 yrs fuel
 230 0 +10 +13 #224 u=7 imp:p=1 \$ Cooled 4 yrs void directly above racks
 324 0 -7 fill=4 u=8 imp:p=1 \$ Cooled 6 yrs inside assembly
 325 0 +7 -10 u=8 imp:p=1 \$ Cooled 6 yrs void outside assembly
 326 3 -7.94 +10 -13 u=8 imp:p=1 \$ Cooled 6 yrs fuel
 330 0 +10 +13 #324 u=8 imp:p=1 \$ Cooled 6 yrs void directly above racks
 424 0 -7 fill=4 u=9 imp:p=1 \$ Cooled 10 yrs inside assembly
 425 0 +7 -10 u=9 imp:p=1 \$ Cooled 10 yrs void outside assembly
 426 3 -7.94 +10 -13 u=9 imp:p=1 \$ Cooled 10 yrs fuel
 430 0 +10 +13 #424 u=9 imp:p=1 \$ Cooled 10 yrs void directly above racks
 524 0 -7 fill=4 u=10 imp:p=1 \$ Cooled 20 yrs inside assembly
 525 0 +7 -10 u=10 imp:p=1 \$ Cooled 20 yrs void outside assembly
 526 3 -7.94 +10 -13 u=10 imp:p=1 \$ Cooled 20 yrs fuel
 530 0 +10 +13 #524 u=10 imp:p=1 \$ Cooled 20 yrs void directly above racks
 624 0 -7 u=11 imp:p=1 \$ No assembly
 625 0 +7 -10 u=11 imp:p=1 \$ No assembly void outside assembly
 626 3 -7.94 +10 -13 u=11 imp:p=1 \$ No assembly Fuel
 630 0 +10 +13 #624 u=11 imp:p=1 \$ No assembly void directly above racks
 27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0
 11 478R \$ 479 empty rack cells
 10 548R \$ 549 cooled 20 yrs
 9 640R \$ 641 cooled 10 yrs
 8 260R \$ 261 cooled 6 yrs
 7 151R \$ 152 cooled 4 yrs
 6 151R \$ 152 cooled 2 yrs
 5 367R \$ 368 cooled 1 yr
 11 478R imp:p=1 \$ 479 empty rack cells
 28 0 -12 fill=13 imp:p=1 \$ Rack array
 41 0 -20 -500 #28 imp:p=1 \$ Pool
 42 0 -20 +500 imp:p=1 \$ Air space within pool
 43 3 -7.94 +20 -23 imp:p=1 \$ Pool liner
 44 4 -2.3 +23 -24 imp:p=1 \$ Concrete surrounding pool
 46 0 -26 imp:p=1 \$ Space above pool
 47 0 +24 +26 -999 imp:p=1 \$ Exterior
 999 0 +999 imp:p=0 \$ Universe

 c Surface Cards
 1 rcc 0 0 48.097 0 0 381 0.444 \$ Active Fuel
 2 rcc 0 0 48.097 0 0 381 0.453 \$ Clad Interior
 3 rcc 0 0 48.097 0 0 381 0.513 \$ Clad Exterior
 4 rcc 0 0 48.097 0 0 381 1.1685 \$ Water Rod Interior

Attachment 2

5 rcc 0 0 48.097 0 0 381 1.2445 \$ Water Rod Exterior
 6 rpp -0.6475 0.6475 -0.6475 0.6475 48.097 429.097 \$ Pin Cell
 7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707 \$ Assembly Envelope
 8 pz 48.097 \$ Lower Nozzle and Plenum Cut Plane
 9 pz 429.097 \$ Upper Nozzle and Plenum Cut Plane
 c Spent Fuel Rack
 10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47 \$ Rack Interior
 11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 \$ Rack Envelope
 12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707 \$ Rack Array Boundary
 13 pz 458.47 \$ Rack Top Cut Plane
 c Pool
 20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 \$ Spent Fuel Pool
 23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 \$ Pool Liner
 24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 \$ Pool Concrete
 26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 \$ Space Above Pool
 500 pz 1161.1584 \$ Top of Pool -30 cm
 c Universe
 999 rpp -5000 5000 -5000 5000 -5000 5000 \$ Universe

c Source Specification

mode p

sdef erg=fcel=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1

cel =d4

ds1 s d5 d6 d7 d8 d9 d10

si2 0 0.4439

sp2 -21 1

si3 -190.499 190.499

sp3 0 1

si4 1 28:27:24:20:11:1

28:27:124:20:11:1

28:27:224:20:11:1

28:27:324:20:11:1

28:27:424:20:11:1

28:27:524:20:11:1

sp4 0.5202 0.1065 0.065 0.085 0.1485 0.0748

c 0 yrs gamma

si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp5 0.00E+00 1.22E+16 3.98E+15 3.91E+15 9.90E+14 7.67E+14 4.69E+15

7.95E+15 1.56E+15 4.09E+14 1.73E+14 2.12E+13 8.14E+13 1.38E+12

1.24E+11 9.72E+06 3.90E+06 7.65E+05 1.62E+05

c 2 yrs gamma

si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

Attachment 2

sp6 0.00E+00 4.68E+15 1.42E+15 1.23E+15 3.39E+14 2.48E+14 2.56E+15
 6.34E+15 1.04E+15 2.43E+14 8.53E+13 5.79E+12 1.49E+13 4.10E+11
 3.77E+10 1.87E+07 7.52E+06 1.48E+06 3.13E+05

c 4 yrs gamma

si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp7 0.00E+00 2.78E+15 7.90E+14 6.18E+14 1.79E+14 1.22E+14 1.19E+15
 4.86E+15 5.35E+14 1.50E+14 4.03E+13 1.55E+12 2.83E+12 1.04E+11
 9.60E+09 1.62E+07 6.49E+06 1.27E+06 2.70E+05

c 6 yrs gamma

si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp8 0.00E+00 2.26E+15 6.31E+14 4.69E+14 1.38E+14 9.16E+13 6.17E+14
 4.13E+15 2.97E+14 1.10E+14 2.20E+13 5.42E+11 5.65E+11 2.69E+10
 2.52E+09 1.50E+07 6.01E+06 1.18E+06 2.50E+05

c 10 yrs gamma

si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp9 0.00E+00 1.75E+15 4.95E+14 3.50E+14 1.05E+14 6.98E+13 1.81E+14
 3.13E+15 9.64E+13 6.45E+13 7.59E+12 1.96E+11 3.18E+10 2.00E+09
 1.89E+08 1.06E+07 4.25E+06 8.34E+05 1.77E+05

c 20 yrs gamma

si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp10 0.00E+00 1.06E+15 3.11E+14 2.01E+14 6.19E+13 4.22E+13 3.48E+13
 1.92E+15 1.76E+13 2.19E+13 1.67E+12 1.08E+11 5.51E+09 1.86E+08
 1.45E+07 4.84E+06 1.94E+06 3.81E+05 8.08E+04

c Materials

c UO2

m1 92000 1

8000 2

c Zirc2

m2 40000 -0.9825

50000 -0.0145

26000 -0.00135

24000 -0.001

72000 -0.00055

c Stainless_Steel

m3 6000 -0.0008

14000 -0.01

15031 -0.00045

24000 -0.19

Attachment 2

25055 -0.02
 26000 -0.68375
 28000 -0.095
 c Concrete
 m4 1001 -0.01
 8016 -0.532
 11023 -0.029
 13027 -0.034
 14000 -0.337
 20000 -0.044
 26000 -0.014
 c Tally Cards
 fc2 Surface Detector at Top of Pool -30 cm (surface 500)
 f2:p 500
 fm2 4.83E+18
 c
 c Problem Cutoff
 NPS 500000000
 c Print Settings
 prdmp -15 -60 1 2
 print 50 120 126

2Y.i

DAEC SFP Drain Down Dose Calculation, 2 yr of additional decay time

c A. Rabaioli-Brosius, ENERCON
 c MCNP5, Source from 2123 Assemblies
 c Cell Cards
 1 1 -10.41 -1 u=1 imp:p=1 \$ Fuel rod
 2 0 +1 -2 u=1 imp:p=1 \$ Gap
 3 2 -6.56 +2 -3 u=1 imp:p=1 \$ Cladding
 4 0 +3 u=1 imp:p=1 \$ Void outside fuel rod
 5 0 -4 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Inside water rod
 6 2 -6.56 +4 -5 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Water rod
 7 like 5 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Inside water rod
 8 like 6 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Water rod
 c GNF2 10x10 lattice
 11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 3 3 1 1 1 1 1
 1 1 1 3 3 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1

Attachment 2

1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 imp:p=1
 20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 \$ Active fuel zone
 21 0 -8 u=4 imp:p=1 \$ Lower nozzle
 22 3 -0.54 +9 u=4 imp:p=1 \$ Upper nozzle
 c Rack Array
 24 0 -7 fill=4 u=5 imp:p=1 \$ Cooled 0 yrs inside assembly
 25 0 +7 -10 u=5 imp:p=1 \$ Cooled 0 yrs void outside assembly
 26 3 -7.94 +10 -13 u=5 imp:p=1 \$ Cooled 0 yrs fuel
 30 0 +10 +13 #24 u=5 imp:p=1 \$ Cooled 0 yrs void directly above racks
 124 0 -7 fill=4 u=6 imp:p=1 \$ Cooled 2 yrs inside assembly
 125 0 +7 -10 u=6 imp:p=1 \$ Cooled 2 yrs void outside assembly
 126 3 -7.94 +10 -13 u=6 imp:p=1 \$ Cooled 2 yrs fuel
 130 0 +10 +13 #124 u=6 imp:p=1 \$ Cooled 2 yrs void directly above racks
 224 0 -7 fill=4 u=7 imp:p=1 \$ Cooled 4 yrs inside assembly
 225 0 +7 -10 u=7 imp:p=1 \$ Cooled 4 yrs void outside assembly
 226 3 -7.94 +10 -13 u=7 imp:p=1 \$ Cooled 4 yrs fuel
 230 0 +10 +13 #224 u=7 imp:p=1 \$ Cooled 4 yrs void directly above racks
 324 0 -7 fill=4 u=8 imp:p=1 \$ Cooled 6 yrs inside assembly
 325 0 +7 -10 u=8 imp:p=1 \$ Cooled 6 yrs void outside assembly
 326 3 -7.94 +10 -13 u=8 imp:p=1 \$ Cooled 6 yrs fuel
 330 0 +10 +13 #324 u=8 imp:p=1 \$ Cooled 6 yrs void directly above racks
 424 0 -7 fill=4 u=9 imp:p=1 \$ Cooled 10 yrs inside assembly
 425 0 +7 -10 u=9 imp:p=1 \$ Cooled 10 yrs void outside assembly
 426 3 -7.94 +10 -13 u=9 imp:p=1 \$ Cooled 10 yrs fuel
 430 0 +10 +13 #424 u=9 imp:p=1 \$ Cooled 10 yrs void directly above racks
 524 0 -7 fill=4 u=10 imp:p=1 \$ Cooled 20 yrs inside assembly
 525 0 +7 -10 u=10 imp:p=1 \$ Cooled 20 yrs void outside assembly
 526 3 -7.94 +10 -13 u=10 imp:p=1 \$ Cooled 20 yrs fuel
 530 0 +10 +13 #524 u=10 imp:p=1 \$ Cooled 20 yrs void directly above racks
 624 0 -7 u=11 imp:p=1 \$ No assembly
 625 0 +7 -10 u=11 imp:p=1 \$ No assembly void outside assembly
 626 3 -7.94 +10 -13 u=11 imp:p=1 \$ No assembly Fuel
 630 0 +10 +13 #624 u=11 imp:p=1 \$ No assembly void directly above racks
 27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0
 11 478R \$ 479 empty rack cells
 10 548R \$ 549 cooled 20 yrs
 9 640R \$ 641 cooled 10 yrs
 8 260R \$ 261 cooled 6 yrs
 7 151R \$ 152 cooled 4 yrs
 6 151R \$ 152 cooled 2 yrs
 5 367R \$ 368 cooled 1 yr
 11 478R imp:p=1 \$ 479 empty rack cells
 28 0 -12 fill=13 imp:p=1 \$ Rack array
 41 0 -20 -500 #28 imp:p=1 \$ Pool
 42 0 -20 +500 imp:p=1 \$ Air space within pool

Attachment 2

43 3 -7.94 +20 -23 imp:p=1 \$ Pool liner
 44 4 -2.3 +23 -24 imp:p=1 \$ Concrete surrounding pool
 46 0 -26 imp:p=1 \$ Space above pool
 47 0 +24 +26 -999 imp:p=1 \$ Exterior
 999 0 +999 imp:p=0 \$ Universe

c Surface Cards

1 rcc 0 0 48.097 0 0 381 0.444 \$ Active Fuel
 2 rcc 0 0 48.097 0 0 381 0.453 \$ Clad Interior
 3 rcc 0 0 48.097 0 0 381 0.513 \$ Clad Exterior
 4 rcc 0 0 48.097 0 0 381 1.1685 \$ Water Rod Interior
 5 rcc 0 0 48.097 0 0 381 1.2445 \$ Water Rod Exterior
 6 rpp -0.6475 0.6475 -0.6475 0.6475 48.097 429.097 \$ Pin Cell
 7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707 \$ Assembly Envelope
 8 pz 48.097 \$ Lower Nozzle and Plenum Cut Plane
 9 pz 429.097 \$ Upper Nozzle and Plenum Cut Plane

c Spent Fuel Rack

10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47 \$ Rack Interior
 11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 \$ Rack Envelope
 12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707 \$ Rack Array Boundary
 13 pz 458.47 \$ Rack Top Cut Plane

c Pool

20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 \$ Spent Fuel Pool
 23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 \$ Pool Liner
 24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 \$ Pool Concrete
 26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 \$ Space Above Pool
 500 pz 1161.1584 \$ Top of Pool -30 cm

c Universe

999 rpp -5000 5000 -5000 5000 -5000 5000 \$ Universe

c Source Specification

mode p

sdef erg=fccl=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1

cel =d4

ds1 s d5 d6 d7 d8 d9 d10

si2 0 0.4439

sp2 -21 1

si3 -190.499 190.499

sp3 0 1

si4 l 28:27:24:20:11:1

28:27:124:20:11:1

28:27:224:20:11:1

28:27:324:20:11:1

28:27:424:20:11:1

28:27:524:20:11:1

sp4 0.467 0.1084 0.0708 0.0957 0.1712 0.087

Attachment 2

c 0 yrs gamma

si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp5 0.00E+00 8.88E+15 2.85E+15 2.74E+15 7.06E+14 5.42E+14 3.72E+15
6.76E+15 1.29E+15 3.26E+14 1.32E+14 1.47E+13 5.29E+13 9.76E+11
8.80E+10 9.10E+06 3.65E+06 7.16E+05 1.52E+05

c 2 yrs gamma

si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp6 0.00E+00 3.93E+15 1.17E+15 9.82E+14 2.75E+14 1.97E+14 2.11E+15
5.88E+15 8.78E+14 2.12E+14 7.00E+13 4.11E+12 9.80E+12 2.91E+11
2.68E+10 1.84E+07 7.37E+06 1.45E+06 3.07E+05

c 4 yrs gamma

si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp7 0.00E+00 2.59E+15 7.30E+14 5.61E+14 1.63E+14 1.10E+14 1.00E+15
4.63E+15 4.59E+14 1.37E+14 3.42E+13 1.15E+12 1.87E+12 7.36E+10
6.84E+09 1.59E+07 6.37E+06 1.25E+06 2.65E+05

c 6 yrs gamma

si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp8 0.00E+00 2.19E+15 6.11E+14 4.51E+14 1.33E+14 8.81E+13 5.27E+14
4.00E+15 2.58E+14 1.03E+14 1.92E+13 4.42E+11 3.80E+11 1.92E+10
1.80E+09 1.47E+07 5.90E+06 1.16E+06 2.46E+05

c 10 yrs gamma

si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp9 0.00E+00 1.72E+15 4.88E+14 3.44E+14 1.04E+14 6.87E+13 1.61E+14
3.08E+15 8.64E+13 6.16E+13 6.89E+12 1.88E+11 2.44E+10 1.52E+09
1.43E+08 1.04E+07 4.17E+06 8.19E+05 1.74E+05

c 20 yrs gamma

si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp10 0.00E+00 1.04E+15 3.07E+14 1.98E+14 6.11E+13 4.17E+13 3.38E+13
1.89E+15 1.69E+13 2.11E+13 1.61E+12 1.06E+11 5.44E+09 1.85E+08
1.42E+07 4.75E+06 1.91E+06 3.74E+05 7.93E+04

c Materials

c UO2

m1 92000 1
8000 2

Attachment 2

c Zirc2
 m2 40000 -0.9825
 50000 -0.0145
 26000 -0.00135
 24000 -0.001
 72000 -0.00055
 c Stainless_Steel
 m3 6000 -0.0008
 14000 -0.01
 15031 -0.00045
 24000 -0.19
 25055 -0.02
 26000 -0.68375
 28000 -0.095
 c Concrete
 m4 1001 -0.01
 8016 -0.532
 11023 -0.029
 13027 -0.034
 14000 -0.337
 20000 -0.044
 26000 -0.014
 c Tally Cards
 fc2 Surface Detector at Top of Pool -30 cm (surface 500)
 f2:p 500
 fm2 4.10E+18
 c
 c Problem Cutoff
 NPS 500000000
 c Print Settings
 prdmp -15 -60 1 2
 print 50 120 126

3Y.i

DAEC SFP Drain Down Dose Calculation, 3 yr of additional decay time

c A. Rabaioli-Brosius, ENERCON

c MCNP5, Source from 2123 Assemblies

c Cell Cards

1 1 -10.41 -1 u=1 imp:p=1 \$ Fuel rod

2 0 +1 -2 u=1 imp:p=1 \$ Gap

3 2 -6.56 +2 -3 u=1 imp:p=1 \$ Cladding

4 0 +3 u=1 imp:p=1 \$ Void outside fuel rod

5 0 -4 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Inside water rod

6 2 -6.56 +4 -5 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Water rod

7 like 5 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Inside water rod

Attachment 2

8 like 6 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Water rod
 c GNF2 10x10 lattice
 11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 1 1 3 3 1 1 1
 1 1 1 3 3 1 1 1 1 1
 1 1 1 3 3 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1 imp:p=1
 20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 \$ Active fuel zone
 21 0 -8 u=4 imp:p=1 \$ Lower nozzle
 22 3 -0.54 +9 u=4 imp:p=1 \$ Upper nozzle
 c Rack Array
 24 0 -7 fill=4 u=5 imp:p=1 \$ Cooled 0 yrs inside assembly
 25 0 +7 -10 u=5 imp:p=1 \$ Cooled 0 yrs void outside assembly
 26 3 -7.94 +10 -13 u=5 imp:p=1 \$ Cooled 0 yrs fuel
 30 0 +10 +13 #24 u=5 imp:p=1 \$ Cooled 0 yrs void directly above racks
 124 0 -7 fill=4 u=6 imp:p=1 \$ Cooled 2 yrs inside assembly
 125 0 +7 -10 u=6 imp:p=1 \$ Cooled 2 yrs void outside assembly
 126 3 -7.94 +10 -13 u=6 imp:p=1 \$ Cooled 2 yrs fuel
 130 0 +10 +13 #124 u=6 imp:p=1 \$ Cooled 2 yrs void directly above racks
 224 0 -7 fill=4 u=7 imp:p=1 \$ Cooled 4 yrs inside assembly
 225 0 +7 -10 u=7 imp:p=1 \$ Cooled 4 yrs void outside assembly
 226 3 -7.94 +10 -13 u=7 imp:p=1 \$ Cooled 4 yrs fuel
 230 0 +10 +13 #224 u=7 imp:p=1 \$ Cooled 4 yrs void directly above racks
 324 0 -7 fill=4 u=8 imp:p=1 \$ Cooled 6 yrs inside assembly
 325 0 +7 -10 u=8 imp:p=1 \$ Cooled 6 yrs void outside assembly
 326 3 -7.94 +10 -13 u=8 imp:p=1 \$ Cooled 6 yrs fuel
 330 0 +10 +13 #324 u=8 imp:p=1 \$ Cooled 6 yrs void directly above racks
 424 0 -7 fill=4 u=9 imp:p=1 \$ Cooled 10 yrs inside assembly
 425 0 +7 -10 u=9 imp:p=1 \$ Cooled 10 yrs void outside assembly
 426 3 -7.94 +10 -13 u=9 imp:p=1 \$ Cooled 10 yrs fuel
 430 0 +10 +13 #424 u=9 imp:p=1 \$ Cooled 10 yrs void directly above racks
 524 0 -7 fill=4 u=10 imp:p=1 \$ Cooled 20 yrs inside assembly
 525 0 +7 -10 u=10 imp:p=1 \$ Cooled 20 yrs void outside assembly
 526 3 -7.94 +10 -13 u=10 imp:p=1 \$ Cooled 20 yrs fuel
 530 0 +10 +13 #524 u=10 imp:p=1 \$ Cooled 20 yrs void directly above racks
 624 0 -7 u=11 imp:p=1 \$ No assembly
 625 0 +7 -10 u=11 imp:p=1 \$ No assembly void outside assembly
 626 3 -7.94 +10 -13 u=11 imp:p=1 \$ No assembly Fuel
 630 0 +10 +13 #624 u=11 imp:p=1 \$ No assembly void directly above racks
 27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0

Attachment 2

11 478R \$ 479 empty rack cells
 10 548R \$ 549 cooled 20 yrs
 9 640R \$ 641 cooled 10 yrs
 8 260R \$ 261 cooled 6 yrs
 7 151R \$ 152 cooled 4 yrs
 6 151R \$ 152 cooled 2 yrs
 5 367R \$ 368 cooled 1 yr
 11 478R imp:p=1 \$ 479 empty rack cells
 28 0 -12 fill=13 imp:p=1 \$ Rack array
 41 0 -20 -500 #28 imp:p=1 \$ Pool
 42 0 -20 +500 imp:p=1 \$ Air space within pool
 43 3 -7.94 +20 -23 imp:p=1 \$ Pool liner
 44 4 -2.3 +23 -24 imp:p=1 \$ Concrete surrounding pool
 46 0 -26 imp:p=1 \$ Space above pool
 47 0 +24 +26 -999 imp:p=1 \$ Exterior
 999 0 +999 imp:p=0 \$ Universe

 c Surface Cards
 1 rcc 0 0 48.097 0 0 381 0.444 \$ Active Fuel
 2 rcc 0 0 48.097 0 0 381 0.453 \$ Clad Interior
 3 rcc 0 0 48.097 0 0 381 0.513 \$ Clad Exterior
 4 rcc 0 0 48.097 0 0 381 1.1685 \$ Water Rod Interior
 5 rcc 0 0 48.097 0 0 381 1.2445 \$ Water Rod Exterior
 6 rpp -0.6475 0.6475 -0.6475 0.6475 48.097 429.097 \$ Pin Cell
 7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707 \$ Assembly Envelope
 8 pz 48.097 \$ Lower Nozzle and Plenum Cut Plane
 9 pz 429.097 \$ Upper Nozzle and Plenum Cut Plane
 c Spent Fuel Rack
 10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47 \$ Rack Interior
 11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 \$ Rack Envelope
 12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707 \$ Rack Array Boundary
 13 pz 458.47 \$ Rack Top Cut Plane
 c Pool
 20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 \$ Spent Fuel Pool
 23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 \$ Pool Liner
 24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 \$ Pool Concrete
 26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 \$ Space Above Pool
 500 pz 1161.1584 \$ Top of Pool -30 cm
 c Universe
 999 rpp -5000 5000 -5000 5000 -5000 5000 \$ Universe

 c Source Specification
 mode p
 sdef erg=fcel=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1
 cel =d4
 ds1 s d5 d6 d7 d8 d9 d10

Attachment 2

si2 0 0.4439
sp2 -21 1
si3 -190.499 190.499
sp3 0 1
si4 1 28:27:24:20:11:1
28:27:124:20:11:1
28:27:224:20:11:1
28:27:324:20:11:1
28:27:424:20:11:1
28:27:524:20:11:1
sp4 0.3823 0.1091 0.0792 0.1126 0.2091 0.1077
c 0 yrs gamma
si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp5 0.00E+00 5.16E+15 1.60E+15 1.45E+15 3.88E+14 2.91E+14 2.40E+15
5.53E+15 9.09E+14 2.22E+14 8.17E+13 7.17E+12 2.24E+13 4.90E+11
4.45E+10 8.47E+06 3.40E+06 6.67E+05 1.42E+05
c 2 yrs gamma
si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp6 0.00E+00 3.05E+15 8.77E+14 7.00E+14 2.01E+14 1.39E+14 1.45E+15
5.18E+15 6.37E+14 1.68E+14 4.86E+13 2.13E+12 4.24E+12 1.47E+11
1.36E+10 1.77E+07 7.09E+06 1.39E+06 2.95E+05
c 4 yrs gamma
si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp7 0.00E+00 2.34E+15 6.53E+14 4.90E+14 1.44E+14 9.57E+13 7.18E+14
4.26E+15 3.41E+14 1.17E+14 2.52E+13 6.75E+11 8.29E+11 3.73E+10
3.48E+09 1.53E+07 6.13E+06 1.20E+06 2.55E+05
c 6 yrs gamma
si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp8 0.00E+00 2.08E+15 5.82E+14 4.23E+14 1.26E+14 8.30E+13 3.90E+14
3.78E+15 1.97E+14 9.20E+13 1.48E+13 3.20E+11 1.76E+11 9.90E+09
9.32E+08 1.42E+07 5.68E+06 1.11E+06 2.37E+05
c 10 yrs gamma
si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp9 0.00E+00 1.67E+15 4.76E+14 3.32E+14 1.00E+14 6.68E+13 1.29E+14
2.98E+15 7.04E+13 5.64E+13 5.75E+12 1.77E+11 1.59E+10 9.26E+08
8.66E+07 1.00E+07 4.02E+06 7.89E+05 1.67E+05

Attachment 2

c 20 yrs gamma

si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
sp10 0.00E+00 1.02E+15 3.01E+14 1.92E+14 5.95E+13 4.06E+13 3.20E+13
1.85E+15 1.56E+13 1.96E+13 1.50E+12 1.04E+11 5.30E+09 1.82E+08
1.37E+07 4.58E+06 1.84E+06 3.60E+05 7.65E+04

c Materials

c UO2

m1 92000 1
8000 2

c Zirc2

m2 40000 -0.9825
50000 -0.0145
26000 -0.00135
24000 -0.001
72000 -0.00055

c Stainless_Steel

m3 6000 -0.0008
14000 -0.01
15031 -0.00045
24000 -0.19
25055 -0.02
26000 -0.68375
28000 -0.095

c Concrete

m4 1001 -0.01
8016 -0.532
11023 -0.029
13027 -0.034
14000 -0.337
20000 -0.044
26000 -0.014

c Tally Cards

fc2 Surface Detector at Top of Pool -30 cm (surface 500)

f2:p 500

fm2 3.23E+18

c

c Problem Cutoff

NPS 500000000

c Print Settings

prdmp -15 -60 1 2

print 50 120 126

Attachment 2

5Y.i

DAEC SFP Drain Down Dose Calculation, 5 yr of additional decay time

c A. Rabaioli-Brosius, ENERCON

c MCNP5, Source from 2123 Assemblies

c Cell Cards

1 1 -10.41 -1 u=1 imp:p=1 \$ Fuel rod

2 0 +1 -2 u=1 imp:p=1 \$ Gap

3 2 -6.56 +2 -3 u=1 imp:p=1 \$ Cladding

4 0 +3 u=1 imp:p=1 \$ Void outside fuel rod

5 0 -4 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Inside water rod

6 2 -6.56 +4 -5 +8 -9 trcl (-1.295 1.295 0) u=4 imp:p=1 \$ Water rod

7 like 5 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Inside water rod

8 like 6 but trcl (1.295 -1.295 0) u=4 imp:p=1 \$ Water rod

c GNF2 10x10 lattice

11 0 -6 u=3 lat=1 trcl (0.6475 0.6475 0) fill=-5:4 -5:4 0:0

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 3 3 1 1 1

1 1 1 1 1 3 3 1 1 1

1 1 1 3 3 1 1 1 1 1

1 1 1 3 3 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1 imp:p=1

20 0 +8 -9 #5 #6 #7 #8 fill=3 u=4 imp:p=1 \$ Active fuel zone

21 0 -8 u=4 imp:p=1 \$ Lower nozzle

22 3 -0.54 +9 u=4 imp:p=1 \$ Upper nozzle

c Rack Array

24 0 -7 fill=4 u=5 imp:p=1 \$ Cooled 0 yrs inside assembly

25 0 +7 -10 u=5 imp:p=1 \$ Cooled 0 yrs void outside assembly

26 3 -7.94 +10 -13 u=5 imp:p=1 \$ Cooled 0 yrs fuel

30 0 +10 +13 #24 u=5 imp:p=1 \$ Cooled 0 yrs void directly above racks

124 0 -7 fill=4 u=6 imp:p=1 \$ Cooled 2 yrs inside assembly

125 0 +7 -10 u=6 imp:p=1 \$ Cooled 2 yrs void outside assembly

126 3 -7.94 +10 -13 u=6 imp:p=1 \$ Cooled 2 yrs fuel

130 0 +10 +13 #124 u=6 imp:p=1 \$ Cooled 2 yrs void directly above racks

224 0 -7 fill=4 u=7 imp:p=1 \$ Cooled 4 yrs inside assembly

225 0 +7 -10 u=7 imp:p=1 \$ Cooled 4 yrs void outside assembly

226 3 -7.94 +10 -13 u=7 imp:p=1 \$ Cooled 4 yrs fuel

230 0 +10 +13 #224 u=7 imp:p=1 \$ Cooled 4 yrs void directly above racks

324 0 -7 fill=4 u=8 imp:p=1 \$ Cooled 6 yrs inside assembly

325 0 +7 -10 u=8 imp:p=1 \$ Cooled 6 yrs void outside assembly

326 3 -7.94 +10 -13 u=8 imp:p=1 \$ Cooled 6 yrs fuel

330 0 +10 +13 #324 u=8 imp:p=1 \$ Cooled 6 yrs void directly above racks

Attachment 2

424 0 -7 fill=4 u=9 imp:p=1 \$ Cooled 10 yrs inside assembly
 425 0 +7 -10 u=9 imp:p=1 \$ Cooled 10 yrs void outside assembly
 426 3 -7.94 +10 -13 u=9 imp:p=1 \$ Cooled 10 yrs fuel
 430 0 +10 +13 #424 u=9 imp:p=1 \$ Cooled 10 yrs void directly above racks
 524 0 -7 fill=4 u=10 imp:p=1 \$ Cooled 20 yrs inside assembly
 525 0 +7 -10 u=10 imp:p=1 \$ Cooled 20 yrs void outside assembly
 526 3 -7.94 +10 -13 u=10 imp:p=1 \$ Cooled 20 yrs fuel
 530 0 +10 +13 #524 u=10 imp:p=1 \$ Cooled 20 yrs void directly above racks
 624 0 -7 u=11 imp:p=1 \$ No assembly
 625 0 +7 -10 u=11 imp:p=1 \$ No assembly void outside assembly
 626 3 -7.94 +10 -13 u=11 imp:p=1 \$ No assembly Fuel
 630 0 +10 +13 #624 u=11 imp:p=1 \$ No assembly void directly above racks
 27 0 -11 u=13 lat=1 trcl (0 0 0) fill=-39:39 -19:19 0:0
 11 478R \$ 479 empty rack cells
 10 548R \$ 549 cooled 20 yrs
 9 640R \$ 641 cooled 10 yrs
 8 260R \$ 261 cooled 6 yrs
 7 151R \$ 152 cooled 4 yrs
 6 151R \$ 152 cooled 2 yrs
 5 367R \$ 368 cooled 1 yr
 11 478R imp:p=1 \$ 479 empty rack cells
 28 0 -12 fill=13 imp:p=1 \$ Rack array
 41 0 -20 -500 #28 imp:p=1 \$ Pool
 42 0 -20 +500 imp:p=1 \$ Air space within pool
 43 3 -7.94 +20 -23 imp:p=1 \$ Pool liner
 44 4 -2.3 +23 -24 imp:p=1 \$ Concrete surrounding pool
 46 0 -26 imp:p=1 \$ Space above pool
 47 0 +24 +26 -999 imp:p=1 \$ Exterior
 999 0 +999 imp:p=0 \$ Universe

c Surface Cards

1 rcc 0 0 48.097 0 0 381 0.444 \$ Active Fuel
 2 rcc 0 0 48.097 0 0 381 0.453 \$ Clad Interior
 3 rcc 0 0 48.097 0 0 381 0.513 \$ Clad Exterior
 4 rcc 0 0 48.097 0 0 381 1.1685 \$ Water Rod Interior
 5 rcc 0 0 48.097 0 0 381 1.2445 \$ Water Rod Exterior
 6 rpp -0.6475 0.6475 -0.6475 0.6475 48.097 429.097 \$ Pin Cell
 7 rpp -6.475 6.475 -6.475 6.475 29.21 476.707 \$ Assembly Envelope
 8 pz 48.097 \$ Lower Nozzle and Plenum Cut Plane
 9 pz 429.097 \$ Upper Nozzle and Plenum Cut Plane

c Spent Fuel Rack

10 rpp -7.5438 7.5438 -7.5438 7.5438 29.21 458.47 \$ Rack Interior
 11 rpp -7.6962 7.6962 -7.6962 7.6962 29.21 476.707 \$ Rack Envelope
 12 rpp -607.9998 607.9998 -300.1518 300.1518 29.21 476.707 \$ Rack Array Boundary
 13 pz 458.47 \$ Rack Top Cut Plane

c Pool

Attachment 2

20 rpp -609.6 609.6 -304.8 304.8 0 1191.1584 \$ Spent Fuel Pool
 23 rpp -610.235 610.235 -305.435 305.435 -0.635 1191.1584 \$ Pool Liner
 24 rpp -747.395 747.395 -442.595 442.595 -0.635 1191.1584 \$ Pool Concrete
 26 rpp -747.395 747.395 -442.595 442.595 1191.1584 1374.0384 \$ Space Above Pool
 500 pz 1161.1584 \$ Top of Pool -30 cm
 c Universe
 999 rpp -5000 5000 -5000 5000 -5000 5000 \$ Universe

c Source Specification

mode p

sdef erg=fcel=d1 pos=0 0 238.597 rad=d2 ext=d3 axs=0 0 1

cel =d4

ds1 s d5 d6 d7 d8 d9 d10

si2 0 0.4439

sp2 -21 1

si3 -190.499 190.499

sp3 0 1

si4 1 28:27:24:20:11:1

28:27:124:20:11:1

28:27:224:20:11:1

28:27:324:20:11:1

28:27:424:20:11:1

28:27:524:20:11:1

sp4 0.285 0.1062 0.0873 0.1316 0.2557 0.1342

c 0 yrs gamma

si5 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp5 0.00E+00 2.65E+15 7.67E+14 6.12E+14 1.75E+14 1.23E+14 1.10E+15

4.21E+15 4.71E+14 1.28E+14 3.68E+13 1.84E+12 4.11E+12 1.24E+11

1.14E+10 7.79E+06 3.13E+06 6.13E+05 1.30E+05

c 2 yrs gamma

si6 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp6 0.00E+00 2.35E+15 6.55E+14 4.92E+14 1.44E+14 9.59E+13 7.31E+14

4.31E+15 3.47E+14 1.19E+14 2.57E+13 6.78E+11 8.21E+11 3.76E+10

3.51E+09 1.64E+07 6.57E+06 1.29E+06 2.74E+05

c 4 yrs gamma

si7 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01

8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00

4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01

sp7 0.00E+00 2.07E+15 5.79E+14 4.21E+14 1.25E+14 8.25E+13 3.87E+14

3.76E+15 1.95E+14 9.16E+13 1.47E+13 3.17E+11 1.73E+11 9.78E+09

9.21E+08 1.42E+07 5.69E+06 1.12E+06 2.37E+05

c 6 yrs gamma

Attachment 2

si8 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp8 0.00E+00 1.93E+15 5.43E+14 3.87E+14 1.16E+14 7.67E+13 2.26E+14
 3.45E+15 1.20E+14 7.50E+13 9.31E+12 2.22E+11 4.40E+10 2.81E+09
 2.67E+08 1.31E+07 5.27E+06 1.03E+06 2.19E+05
 c 10 yrs gamma
 si9 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp9 0.00E+00 1.58E+15 4.53E+14 3.11E+14 9.46E+13 6.33E+13 8.83E+13
 2.80E+15 4.94E+13 4.77E+13 4.23E+12 1.63E+11 9.85E+09 4.75E+08
 4.21E+07 9.30E+06 3.73E+06 7.32E+05 1.55E+05
 c 20 yrs gamma
 si10 1.00E-02 5.00E-02 1.00E-01 2.00E-01 3.00E-01 4.00E-01 6.00E-01
 8.00E-01 1.00E+00 1.33E+00 1.66E+00 2.00E+00 2.50E+00 3.00E+00
 4.00E+00 5.00E+00 6.50E+00 8.00E+00 1.00E+01
 sp10 0.00E+00 9.69E+14 2.88E+14 1.82E+14 5.64E+13 3.86E+13 2.92E+13
 1.76E+15 1.35E+13 1.70E+13 1.32E+12 9.84E+10 5.04E+09 1.78E+08
 1.27E+07 4.26E+06 1.71E+06 3.35E+05 7.11E+04
 c Materials
 c UO2
 m1 92000 1
 8000 2
 c Zirc2
 m2 40000 -0.9825
 50000 -0.0145
 26000 -0.00135
 24000 -0.001
 72000 -0.00055
 c Stainless_Steel
 m3 6000 -0.0008
 14000 -0.01
 15031 -0.00045
 24000 -0.19
 25055 -0.02
 26000 -0.68375
 28000 -0.095
 c Concrete
 m4 1001 -0.01
 8016 -0.532
 11023 -0.029
 13027 -0.034
 14000 -0.337
 20000 -0.044
 26000 -0.014

Attachment 2

c Tally Cards

fc2 Surface Detector at Top of Pool -30 cm (surface 500)

f2:p 500

fm2 2.47E+18

c

c Problem Cutoff

NPS 500000000

c Print Settings

prtmp -15 -60 1 2

print 50 120 126

Excerpt from Reference 3.19

9-7

CONTRACTOR REPORT

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Extensions to the Integral Line-Beam Method for Gamma-Ray Skyshine Analyses

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Extensions to the Integral Line-Beam Method for Gamma-Ray Skyshine Analyses

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Manhattan, Kansas 66506

Sandia Contract No. 78-5706

Abstract

A computationally simple method for estimating gamma-ray skyshine dose rates has been developed on the basis of the line-beam response function. Both Monte Carlo and point-kernel calculations that account for both annihilation and bremsstrahlung were used in the generation of line beam response functions (LBRF) for gamma-ray energies between 10 and 100 MeV. The LBRF is approximated by a three-parameter formula. By combining results with those obtained in an earlier study for gamma energies below 10 MeV, LBRF values are readily and accurately evaluated for source energies between 0.02 and 100 MeV, for source-to-detector distances between 1 and 3000 m, and beam angles as great as 180 degrees. Tables of the parameters for the approximate LBRF are presented.

The new response functions are then applied to three simple skyshine geometries, an open silo geometry, an infinite wall, and a rectangular four-wall building. Results are compared to those of previous calculations and to benchmark measurements. A new approach is introduced to account for overhead shielding of the skyshine source and compared to the simplistic exponential-attenuation method used in earlier studies. The effect of the air-ground interface, usually neglected in gamma skyshine studies, is also examined and an empirical correction factor is introduced. Finally, a revised code based on the improved LBRF approximations and the treatment of the overhead shielding is presented, and results shown for several benchmark problems.

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MASTER

Chapter 1

Introduction

1.1 Skyshine

The term skyshine generally refers to radiation that originates from a fixed source and scatters in the atmosphere before reaching a point of interest (detector) near the ground. Skyshine is important when sufficient shielding between the source and detector prevents any significant radiation from reaching the detector directly through the shield material.

Skyshine dose calculations have been used widely in the design of nuclear facilities such as nuclear power plants, spent-fuel storage areas, and research laboratories. In these facilities, radiation sources are generally well shielded against radiation emitted horizontally. However, there is usually far less shielding provided against radiation emitted upward through the roofs of these facilities. Radiation escaping through the roofs interacts in the air and returns to earth exposing people both near and far from the facilities.

Elementary ray-analysis techniques coupled with buildup-factor concepts have been applied very successfully to treat the direct dose arising from gamma photons that travel directly from the source to the detector [Ch84]. In skyshine problems, however, ray-analysis techniques fail, and the radiation protection analyst has to resort to specialized and generally computationally intensive techniques. The large computational expense inherent in multi-dimensional transport calculations precludes the use of these techniques for routine or preliminary design analyses. Thus, approximate techniques have been developed for the skyshine problem to reduce the computational effort. In this study, one such approximate technique is refined and its range of applicability extended.

1.2 Previous Skyshine Studies

In previous skyshine studies, a variety of methods has been used, including radiation transport methods, single-scattering methods, and response-function methods. The Monte Carlo method was the first radiation transport method applied to the skyshine problem. Lynch et al. [Ly58], using a customized Monte Carlo code, computed the air dose as a function of distance from point monodirectional sources emitting photons at different angles from the source-detector axis. General purpose Monte Carlo codes such as OGRE [Pe65], COHORT [So75], and MORSE [Em75] have been applied to skyshine calculations [An87]. All of these codes are based on an exact transport description of a particular skyshine problem and normally require a multidimensional geometry and multigroup energy formulation, and, hence, a large computational effort.

The discrete-ordinate technique, another method based on transport theory, has also been used in skyshine analyses [Gi90]. The codes DOT [My73] and ANISN [En67] are representatives of general-purpose transport codes which also have been used for skyshine calculations. To avoid troublesome ray effects inherent in these multidimensional calculations involving a severely anisotropic source, fine angular meshes and first or second scattered source formulations must be used. Also, as with general purpose Monte Carlo codes, large computational efforts are required and the usefulness of these codes for preliminary or routine skyshine calculations is limited.

An elementary single-scatter approximation method for calculating skyshine doses was proposed by Trubey [Tr61]. This single-scatter technique ignores both the contributions of multiply-scattered gamma photons as well as the attenuation and the buildup of photons in the air. It is successful for near-field calculations, when the detector is near the source, involving bare skyshine sources, but it is not as suitable for shielded sources or for far-field calculations, when the detector is far from the source. Based on Trubey's work, Kitazume [Ki68] modified the single-scatter approximation by incorporating exponential attenuation and a Taylor-type buildup factor. The inclusion of exponential attenuation for both uncollided photons and scattered photons and the consideration of secondary radiation buildup allows this single-scatter method to be applied to more complicated skyshine geometries and at distances farther from the source. Other applications of the single-scatter method to various gamma-ray skyshine problems include the work of Roseberry [Ro80], Roseberry and Shultis [Ro82], Chou et al. [Ch83], and George [Ge88]. Also general-purpose single-scatter codes such as QAD [Pr74] and G3 [Ma73] have been used for skyshine calculations.

An alternative simplified approach for skyshine analyses is the use of a skyshine line-beam response function (LBRF) that gives the skyshine dose arising from a monodirectional and monoenergetic beam of gamma radiation directed into the atmosphere. Lynch et al. [Ly58] computed by Monte Carlo techniques the air dose caused by multiply-scattered gamma photons initially emitted in a monoenergetic beam into an infinite air medium at angles up to 180 degrees from the source-detector axis. The

LBRF could then be used as the basis for obtaining the skyshine dose for an arbitrary source by simply decomposing the actual source into a sum of beam components.

Radiation Research Associates (RRA) carried out more extensive Monte Carlo calculations for obtaining the LBRF and implemented the LBRF method in the SKYSHINE series of codes [Pr76, La79, La88]. These codes were originally designed to evaluate the effects of structure geometry upon the skyshine dose rate at detector positions outside a building housing energetic gamma-ray sources. The structure geometry allowed by the SKYSHINE codes can include a rectangular structure with four walls, a roof, and a floor. Each of the containment surfaces may be subdivided into a maximum of nine different subsections, each with different composition or thickness. A Monte Carlo sampling technique is used by SKYSHINE to determine from which surface radiation is emitted and with what energy. After a correction for attenuation as the beam penetrates the structure, the contribution to the skyshine dose made by the transmitted beam is then calculated with the LBRF.

To reduce further the computational effort, and yet improve the accuracy of the LBRF calculational method, Shultis and Faw [Sh87, Sh91, Sh92] developed a different method to obtain the LBRF. The skyshine dose rate at a detector arising from a monodirectional, monoenergetic photon beam was calculated by the point-kernel technique accounting for gamma-photon attenuation, secondary photons, and pair production in the scattered radiation field. These LBRF calculations, for fixed energy and emission angle, were then approximated by an empirical formula whose parameters were determined by least-square fitting a three-parameter formula to calculated values of the LBRF. The resulting LBRF was a function of source photon energy, source-to-detector distance, and photon emission angle. To make the approximate LBRF continuous in both energy and angle, a linear interpolation scheme was introduced. The skyshine dose from a given photon source was then obtained by numerically integrating the LBRF over all emission directions and energies allowed by the skyshine source. This integral LBRF method with revised LBRF data has been incorporated in the microcomputer code MICROSKEYSHINE [Gr87].

Compared to the original LBRF approximation used by the SKYSHINE series of codes, the LBRF obtained by Shultis and Faw had three important improvements. First, the SKYSHINE approximation of the LBRF yielded good agreement with benchmark calculations over source-to-detector distances to 1500 m. Calculated skyshine dose rates at beyond this limit, however, not only were overestimated but also did not decrease as rapidly with increasing distance as did other benchmark calculations. The new LBRF approximation is suitable for a greater source-to-detector range, namely to 2500 m. Second, the photon energy and beam angle are treated in a multigroup formulation in the SKYSHINE method [La88]. This multigroup treatment of the energy and angular variables occasionally produces random variations (a few percent) in the calculated doses when one of the geometry parameters is altered only slightly. Such random variations make sensitivity studies difficult since rather large parameter changes must be used to obtain a meaningful change in the skyshine dose. Shultis and Faw introduced an energy and angular interpolation scheme to make the LBRF con-

tinuous in these variables. The new continuous LBRF greatly improves the precision of skyshine calculations so that sensitivity studies can be more easily performed. The new LBRF also eliminates the stochastic variations observed in the original LBRF caused by the fits to Monte Carlo data which themselves contained statistical errors. Third, unlike the SKYSHINE method which uses a Monte Carlo technique to account for different source emission directions, MICROSKEYSHINE calculates the skyshine dose by integrating (numerically) the line-beam response function over all directions allowed by the problem geometry. Consequently, it is relatively easy to analyze simple skyshine geometries, such as a bare source in an open cylindrical silo or behind an infinitely-wide wall.

For a skyshine problem with shielding over the source, exponential attenuation has been employed in estimates of the skyshine dose caused by all gamma photons (uncollided and scattered) passing through the source shield [Sh91]. The integral LBRF method has been also incorporated into a composite method to treat the silo collimation with shielding over the source. This composite method [Ke82, Ba89] uses an accurate one-dimensional transport code to compute the energy and angular distribution of photons escaping from the source shield. Then a modified integral LBRF method treats the emergent photons as an effective bare skyshine source in calculations of the skyshine dose at the detector location.

1.3 Summary of the Integral Line-Beam Method

The LBRF $\mathfrak{R}(d, E, \phi)$ gives the air kerma (rad per photon) at a distance d from a point source emitting photons of energy E into an infinite air medium at an angle ϕ relative to the source-detector axis. The skyshine dose rate $R(d)$ arising from a bare, collimated point source which emits $S(E, \Omega) dE d\Omega$ photons per unit time with energies in dE about E into directions $d\Omega$ about Ω is found by integrating the LBRF over all source energies and over all photon emission directions allowed by the source collimation, namely [Sh91]

$$R(d) = \int_0^{\infty} dE' \int_{\Omega_s} d\Omega S(E', \Omega) \mathfrak{R}(d, E', \phi(\Omega)). \quad (1.1)$$

Here Ω_s represents those directions in which radiation can stream directly from the source into the atmosphere. Implicit in this approach is the assumption that the ground can be treated as an infinite air medium. This assumption has proven to be quite reasonable for most gamma skyshine problems.

For a shielded skyshine problem, the energy and angular distribution of photons leaving the shield can be treated as a bare, polyenergetic, anisotropic, point source, and the skyshine dose at a detector location can be calculated by Eq. (1.1). The composite method for a shielded source uses this approach [Ba89]. In this method, a one-dimensional transport model is used to calculate first the energy and angular distributions of photons leaving the source shield. Then the skyshine dose is calculated for the escaping photons by using the integral LBRF method.

When the source energy distribution is represented by a multigroup approximation, the multigroup source spectrum can be incorporated in Eq. (1.1) as

$$R(d) = \sum_{g=1}^G \int_{\Omega_s} d\Omega S(E_g, \Omega) \mathfrak{R}(d, E_g, \phi(\Omega)). \quad (1.2)$$

The above results are based on two implicit approximations. First, the walls of the source collimation are assumed to be “black”, i.e., any photons that hit the walls are assumed to be absorbed. This assumption allows one to neglect the dose contribution at the detector of photons that penetrate the source containment walls or that scattered from the walls before escaping into the atmosphere. Second, the source containment structure is assumed to have a negligible perturbation on the skyshine radiation field; i.e., once photons enter the atmosphere, they do not interact again with the source structure. With this assumption, the calculation of the energy and angular distribution of source photons penetrating any overhead source shield or escaping from the containment structure becomes independent of the subsequent transport of the photons through the air to the detector. In most far-field skyshine calculations, the source and its containment have a negligible effect on the transport of the photons through the air once the photons have left the source structure [Ba89]. However, for near-field calculations, as will be seen, this second assumption is not always true.

If the point source is isotropic and monoenergetic, emitting S_p photons of energy E per unit time, the energy and angular distribution of the source can be represented as

$$S(E', \Omega) = \frac{S_p}{4\pi} \delta(E' - E). \quad (1.3)$$

Then, in terms of a spherical-polar coordinate system with the source at the origin and the polar axis directed vertically upwards, Eq. (1.1) reduces to

$$R(d) = \frac{S_p}{4\pi} \int_0^{2\pi} d\psi \int_{\omega_{min}}^{\omega_{max}} d\omega \mathfrak{R}(d, E, \phi), \quad (1.4)$$

where ω is the cosine of the polar angle θ , and the azimuthal angle ψ is defined with respect to the projection on the horizontal plane of the source-to-detector axis. Here ω_{min} and ω_{max} define the permissible range of the cosine of polar angles for photon emission allowed by the source collimation. Generally, these limits are functions of the azimuthal angle ψ .

The above formulation can be used to calculate the skyshine dose rate for any point skyshine source. For some simple skyshine geometries, explicit expressions for the limits ω_{min} and ω_{max} can be obtained (see Ch. 4). In any case, the integral in Eq. (1.1) or (1.4) can be evaluated readily using standard numerical integration techniques.

4.2 Improved LBRF Approximations

4.2.1 A Three-Parameter Approximation

From the experience gained with TABLECURVE, it was apparent that the three-parameter formula of Eq. (4.7) to approximate the LBRF is a good choice. Therefore, Eq. (4.1) can be expressed as

$$\begin{aligned}\mathfrak{R}(x, E, \phi) &\simeq \kappa E \exp[\ln F(x, a, b, c)] \\ &\simeq \kappa E x^b \exp[a - cx].\end{aligned}\quad (4.11)$$

In this section the results of fitting the this three-parameter formula to the reference LBRF values are presented.

The fitting parameters a , b , and c were determined in this study for 20 discrete energies E_i and for 20 or 17 (depending on the energy region) discrete beam angles ϕ_j (see Tables 4.1) and 4.2. Compared to LBRF energies used in previous studies [La88, Sh91], this energy set has three new features. The first is that, while the original energy had a lower limit of 100 keV, the new energy range is extended down to 20 keV. The second is that there are more energies in the lower energy range than in the higher, since the skyshine dose rate varies much more rapidly with energy in the lower energy range. The third is that the upper energy range has been extended from 10 MeV to 100 MeV. The angular structure used for energies below 15 MeV, listed in Table 4.1, is the same as that used in earlier studies [La88, Sh91].

For each discrete beam energy and angle, the parameters, a , b , and c of Eq. (4.11), were found by minimizing one of the objective functions $S_i(a, b, c)$, $i = 1, 2, 3$ for source-to-detector distances x_m from some minimum distance (1 m for the point kernel data or 100 m for the MCNP data) to a maximum range x_M . The maximum range was taken to be 3000 m or the distance x_M at which \mathfrak{R}_M becomes less than some prescribed value, e.g., 10^{-30} rads per photon. Although greater fit ranges can be achieved than those limited by the 10^{-30} rads per photon criterion, the point kernel reference values used in such a fit would be unreliable since the point kernel model would make use of buildup-factor approximations beyond their range of applicability.

The variation of x_M with energy E is shown in Fig. 4.2 for the three emission angles of 1.5, 45, and 150 degrees. As would be expected, the x_M range increases with increasing energy and with decreasing emission angle. For smaller emission angles, x_M increases faster than for larger emission angles. The approximate LBRF of Eq. (4.11) for low energy photons in the backward directions has a maximum fit range considerably less than the 3000 m desired. Nevertheless, this approximation may still be applied in most skyshine analyses for distances greater than x_M since the extremely small and uncertain doses from such low-energy and backward moving beam components are negligible compared to the much higher doses caused by higher energy or forward directed source photons.

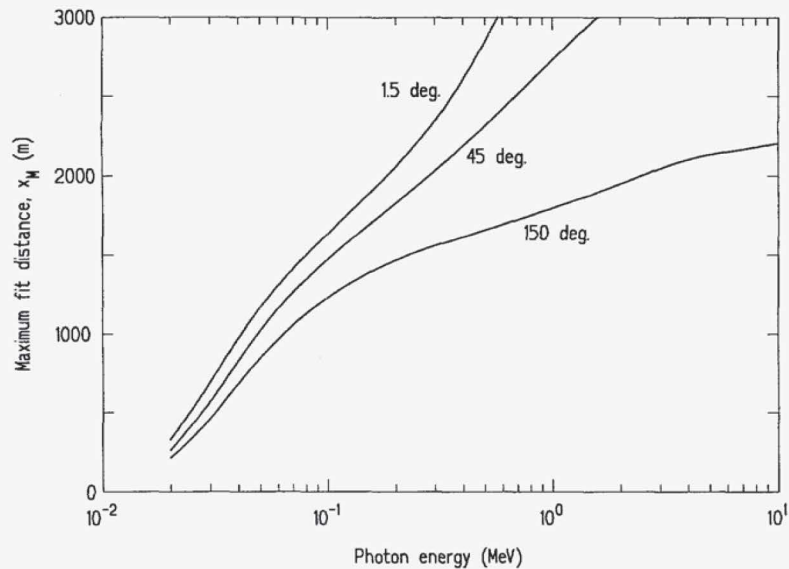


Figure 4.2. Variation of the maximum range x_M (m) used in the fit of the LBRF with photon energy. For source-to-detector distances greater than x_M (m), the LBRF was less than 10^{-30} rad/photon.

Values of the approximation parameters a , b and c depend on the fitting criterion used, i.e., which of the objective functions S_i of Eqs. (4.3) to (4.5) is to be minimized. Several measures of the goodness of the approximating fit can be used such as the average absolute deviation, the maximum deviation, or the mean squared deviation between the fit and the reference values. A plot is shown in Fig. 4.3 of the resulting maximum versus average fit deviations for the least squares (S_1) and the minimization of the maximum deviation (S_2) or MMD criteria for the low-energy (< 15 MeV) fits made to the 300 different beam energies and angles of Table 4.1. Although both fitting criteria produce the same range of average deviations, the S_2 criterion produces, as would be expected, smaller maximum deviations between the fits and the reference values. The deviations produced by the S_3 criterion (not shown in Fig. 4.3) are very similar to those for the S_1 criterion except that several fits produced average deviations considerably greater than those for the S_1 fits. From these results it was decided to use the MMD (S_2) criterion to obtain the approximation parameters for the 3-parameter approximation of the LBRF.

The results obtained for the fitting parameters a , b , and c , are presented in Appendix A, together with the quantifications of the absolute deviations of the fit to the reference values.

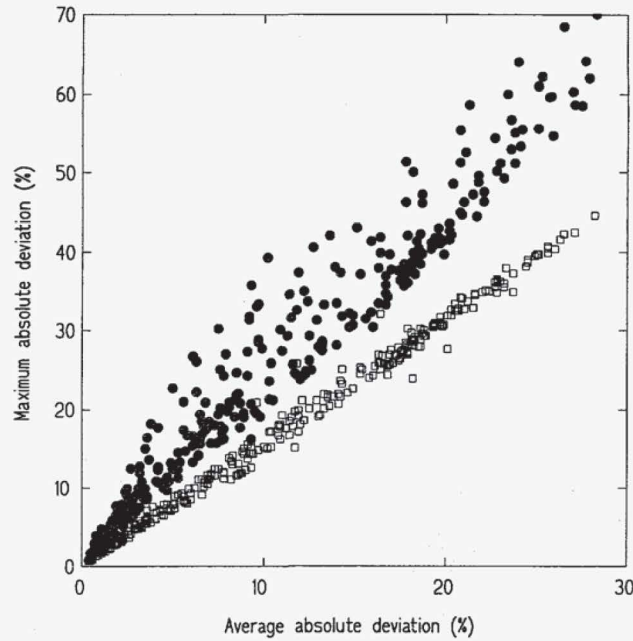


Figure 4.3. Fit deviations produced by fitting the 3-parameter formula Eq. (4.11) to the 300 sets of energy-angle reference LBRF data calculated from the point kernel LBRF model for 15 MeV and below. Shown are results obtained by the least-squares method (circles) and by the MMD method (open squares).

4.2.2 A Four-Parameter Approximation

The four-parameter function of Eq. (4.10) can also be used to approximate the LBRF as

$$\mathfrak{R}(x, E, \phi) \simeq \kappa E x (b - dx) e^{a-cx}. \quad (4.12)$$

This function was fitted to the 300 sets of point kernel reference LBRF data for photon energies of 15 MeV or less. In Fig. 4.4 the average and maximum deviations between the fit and the reference data are shown for the 280 fits for energies of 10 MeV or less. From a comparison of this figure to Fig. 4.3, it is apparent that the four-parameter function represents the LBRF data much better than does the three-parameter approximation. Indeed, if the 10 MeV case were also excluded from Fig. 4.4 there would be only three points with average deviations above 7%. Again the S_2 fit is seen to produce results with slightly lower maximum deviations than does the least-squares S_1 fit. For this reason the S_2 fit was used to obtain the fitting parameters a , b , c , and d tabulated in Appendix B.

Because the fitting errors produced with the four-parameter approximation were

comparable to those produced with the three-parameter formula, no four-parameter fits are reported for energies above 15 MeV.

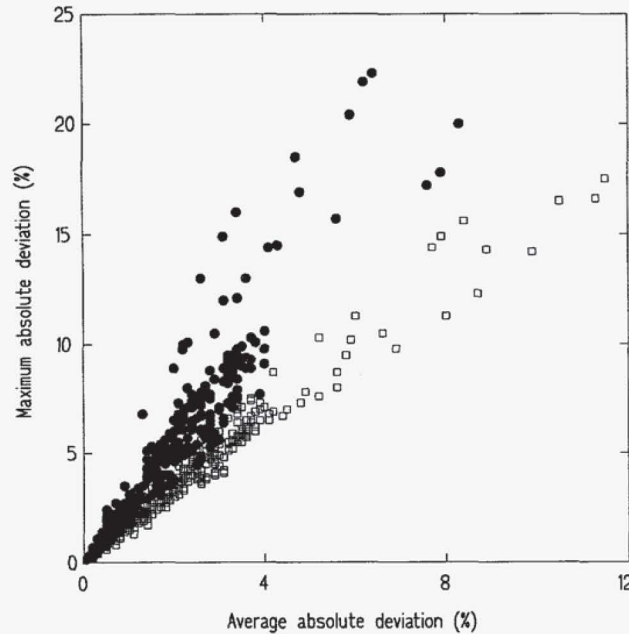


Figure 4.4. Fit deviations produced by fitting the 4-parameter formula Eq. (4.12) to the 280 sets of energy-angle reference LBRF data calculated from the point kernel LBRF model for 10 MeV and below. Shown are results obtained by the least-squares method (circles) and by the MMD method (open squares).

4.3 Correction for Different Air Densities

For an infinite homogeneous medium of density ρ with a point source of arbitrary energy and angular distribution at the origin, the dose distribution $D_\rho(\mathbf{r})$ can rigorously be related the dose distribution $D_{\rho_o}(\mathbf{r})$ for the same problem but with the medium's density changed to ρ_o . Specifically, Zerby [Ze56] showed

$$D_\rho(\mathbf{r}) = \frac{\rho^2}{\rho_o^2} D_{\rho_o}(\rho\mathbf{r}/\rho_o). \quad (4.13)$$

This general result can be immediately applied to the LBRF.

The calculations of \mathfrak{R} and its approximation of Eq. (4.11) were all made with a reference mass density $\rho_o = 0.0012 \text{ g/cm}^3$. Skyshine problems often involve atmospheres at different densities. With the density scaling property of Eq. (4.13), the

3-parameter approximate LBRF for air with density ρ becomes

$$\mathfrak{R}(x, E, \phi) = \kappa E(\rho/\rho_o)^2 [x(\rho/\rho_o)]^b e^{(a-cx\rho/\rho_o)}. \quad (4.14)$$

The fitting parameters a , b , and c are the same as those obtained at the reference density ρ_o and depend only on the source energy E and the beam angle ϕ .

The 4-parameter LBRF approximation of Eq. (4.12) can be corrected similarly for atmospheric density, namely

$$\mathfrak{R}(x, E, \phi) = \kappa E(\rho/\rho_o)^2 [x(\rho/\rho_o)]^{(b-dx\rho/\rho_o)} e^{(a-cx\rho/\rho_o)}. \quad (4.15)$$

An example of this density scaling result is shown in Fig. 4.5 which shows MCNP calculated values of the LBRF in an infinite air medium of density $\rho_o = 0.0012 \text{ g cm}^{-3}$ (open squares) and then corrected to a density of $\rho = 0.00135 \text{ g cm}^{-3}$ by Eq. (4.13). Also shown in the figure by the solid squares are values directly calculated by MCNP for an air density of $\rho = 0.00135 \text{ g cm}^{-3}$. Clearly, the two sets of results are in excellent agreement.

If the medium is not homogeneous, then Eq. (4.13) does not rigorously apply. However, because soil has very similar photon cross sections as those of air, one might expect that the scaling property used in Eqs. (4.14) and (4.15) might be excellent approximations of the effect of changes in the air density. In Fig. 4.6, MCNP calculations similar to those shown Fig. 4.5 are shown except in these calculations there was an air-ground interface present. The good agreement between the density corrected values and the calculated values verifies that density scaling can also be used for skyshine problems with an air-ground interface. Further effects of the air-ground interface are presented in Chapter 7.

4.4 Interpolation of Fitted Response Function

A double interpolation scheme was used in this study to make the approximate line-beam response function continuous in both energy and angle [Sh91]. The approximate LBRF is first linearly interpolated in energy to yield the response at the energy E of interest. If $E_i \leq E \leq E_{i+1}$ then the approximating function $\mathcal{F} \equiv \mathfrak{R}/E$ at the two bracketing discrete energies are reconstituted from the fitting parameters in Eq. (4.11) or (4.12) and $\mathcal{F}(E, x, \phi_j)$ is then obtained by linear interpolation as

$$\mathcal{F}(x, E, \phi_j) = \mathcal{F}_{i+1,j} \frac{E_i - E}{E_i - E_{i+1}} + \mathcal{F}_{i,j} \frac{E - E_{i+1}}{E_i - E_{i+1}}, \quad (4.16)$$

where

$$\mathcal{F}_{i,j} \equiv \mathcal{F}(x, E_i, \phi_j). \quad (4.17)$$

Once the energy interpolation has been performed at the two bracketing angles, an interpolation in the beam direction ϕ is performed. In earlier work [Sh87, Sh92]

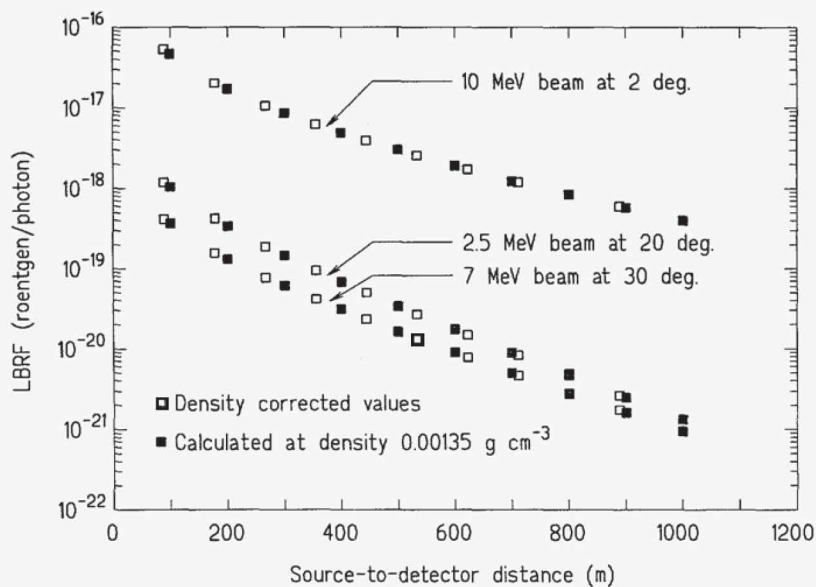


Figure 4.5. MCNP calculated values of the LBRF in an infinite air medium. The open squares are values calculated with a density $\rho_o = 0.0012 \text{ g cm}^{-3}$ and then corrected to a density of $\rho = 0.00135 \text{ g cm}^{-3}$ by Eq. (4.13). The solid squares are values directly calculated by MCNP for an air density of $\rho = 0.00135 \text{ g cm}^{-3}$.

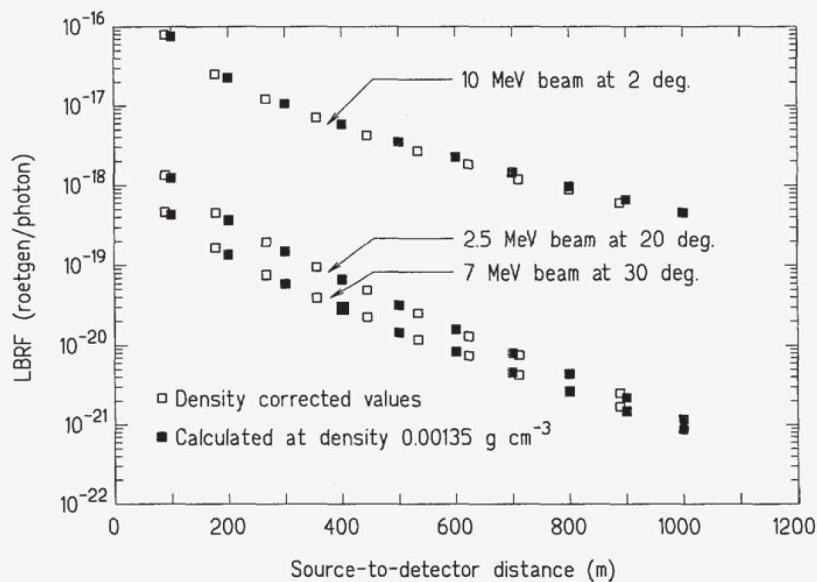


Figure 4.6. MCNP calculated values of the LBRF with a ground interface present. The open squares are values calculated with a density $\rho_o = 0.0012 \text{ g cm}^{-3}$ and then corrected to a density of $\rho = 0.00135 \text{ g cm}^{-3}$ by Eq. (4.13). The solid squares are values directly calculated by MCNP for an air density of $\rho = 0.00135 \text{ g cm}^{-3}$.

this angular interpolation employed linear interpolation between $\mathcal{F}(x, E, \phi_{j+1})$ and $\mathcal{F}(x, E, \phi_j)$. However, at large distances, it was found that these two bracketing values could vary by more than an order of magnitude and that such linear interpolation could produce quite inaccurate results. Much better results are obtained by using a logarithmic interpolation scheme. Thus, with $\mathcal{G} \equiv \ln \mathcal{F}$, one obtains for $\phi_j \leq \phi \leq \phi_{j+1}$

$$\mathcal{G}(x, E, \phi) = \mathcal{G}(x, E, \phi_j) + [\mathcal{G}(x, E, \phi_{j+1}) - \mathcal{G}(x, E, \phi_j)] \frac{\phi - \phi_j}{\phi_{j+1} - \phi_j}. \quad (4.18)$$

For beam directions in the two end intervals, a logarithmic linear extrapolation procedure is used, namely, for $\phi_J \equiv \max\{\phi_j\} \leq \phi \leq 180$ degrees,

$$\mathcal{G}(x, E, \phi) = \mathcal{G}(x, E, \phi_J) + [\mathcal{G}(x, E, \phi_J) - \mathcal{G}(x, E, \phi_{J-1})] \frac{\phi - \phi_J}{\phi_J - \phi_{J-1}}. \quad (4.19)$$

and for $0 \leq \phi \leq \phi_1 \equiv \min\{\phi_j\}$ degrees

$$\mathcal{G}(x, E, \phi) = \mathcal{G}(x, E, \phi_1) + [\mathcal{G}(x, E, \phi_2) - \mathcal{G}(x, E, \phi_1)] \frac{\phi - \phi_1}{\phi_2 - \phi_1}. \quad (4.20)$$

Finally, the desired LBRF is obtained as

$$\mathfrak{R}(x, E, \phi) \simeq E \exp[\mathcal{G}(x, E, \phi)] \quad (4.21)$$

With this double interpolation scheme, the approximate LBRF of Eq. (4.11) or (4.12) is made completely continuous in angle ϕ and energy E . Unlike the original LBRF [La79] which was represented as histograms in both energy and angle, the new approximating LBRF proposed here varies smoothly with small changes in the arguments of the LBRF. However, it should be noted that, while this continuity feature increases the precision of a skyshine calculations, it does require more computational effort and has little effect on the accuracy of the skyshine doses [Sh87].

4.5 Examples of the Approximate LBRF

Both a three-parameter and a four-parameter approximation for the LBRF has been developed, the former applicable over the entire energy range studied (0.02 to 100 MeV) and the latter applicable only to energies less than 15 MeV. The parameters for the three-parameter approximate LBRF of Eq. (4.14) are tabulated in Appendix A, and those for the four-parameter approximation given by Eq. (4.15) are listed in Appendix B. Before examples of skyshine calculations are presented in the next chapter, examples of the LBRF and its approximations are given here.

4.5.1 Comparison of Point-Kernel and Approximate LBRF

Example comparisons of the approximate line-beam response functions, Eqs. (4.14) and (4.15), to the point kernel model of Eq. (2.24) are shown in Figs. 4.7 through 4.11. The data points in these figures are calculated with the point kernel LBRF

Appendix B

Data for the Four-Parameter Approximate LBRF

In Chapter 4, an approximate LBRF was obtained by fitting the following four-parameter empirical formula to calculated LBRF values.

$$\mathfrak{R}(x, E, \phi) = \kappa E(\rho/\rho_o)^2 [x\rho/\rho_o]^{(b-dx)} e^{a-cx\rho/\rho_o}$$

Here ρ_o is the standard air density ($= 0.0012 \text{ g cm}^{-3}$), ρ is the actual air density, E is the photon energy in MeV, and, for $\kappa = 1.308 \times 10^{-11}$, the LBRF \mathfrak{R} has units of air-rad/photon.

Values for the parameters a , b , c , and d , which depend on E and ϕ , were obtained by fitting the above equation to values calculated with the point-kernel model of Chapter 2. The approximation parameters so obtained are tabulated here for 15 discrete source energies from 0.02 to 15 MeV. For each discrete energy, parameters are tabulated at 20 discrete beam angles.

In these tables the maximum range of the fit and deviations from the point-kernel LBRF value are also given. Parameters were obtained by fits to LBRF values calculated over a limited range of source-to-detector distances. The fit extended from 1 m to a maximum distance x_M which was taken as the smaller of 3000 m or the distance at which the LBRF dose became less than 10^{-30} rad/photon. Although fits over greater ranges are available from the authors, the point-kernel values, upon which the fits depend, are based on buildup factor data extrapolated beyond their tested validity.

The average deviation of the fitted LBRF to the point-kernel values over all data values and the maximum deviation and where it occurs are also provided in these tables.

Source Energy 0.7 MeV								
ϕ_j (deg.)	Fit Range ^a x_M (m)	LBRF Fit Parameters				Deviations		
		a	b	c	d	Aver. (%)	Max. (%)	x_{max} (m)
0.5	3000	-7.0739	-1.01292	0.008036	0.000052	1.1	1.9	3000
1.5	3000	-8.1891	-1.02770	0.005847	0.000286	1.9	3.0	3000
2.5	3000	-8.7274	-1.03184	0.004513	0.000436	1.8	-2.9	20
4.0	3000	-9.2389	-1.03370	0.003134	0.000596	1.6	-2.7	20
6.0	3000	-9.7031	-1.03240	0.001986	0.000732	1.3	-2.2	10
8.5	3000	-10.1244	-1.02970	0.001033	0.000848	1.2	1.9	200
12.5	3000	-10.6372	-1.02227	0.000175	0.000961	1.6	3.0	2000
17.5	3000	-11.1713	-1.00226	-0.000156	0.001019	2.6	-4.0	600
25.0	3000	-11.7747	-0.99050	-0.000410	0.001083	3.4	5.5	2000
35.0	2750	-12.4150	-0.98742	-0.000760	0.001180	3.6	-5.9	2750
45.0	2750	-12.9193	-0.98818	-0.000508	0.001208	4.0	-7.1	2750
55.0	2500	-13.3565	-0.98593	-0.000374	0.001258	3.5	6.0	1800
65.0	2500	-13.6980	-0.98288	0.000261	0.001243	3.6	6.2	1800
75.0	2250	-13.9590	-0.99048	0.000202	0.001314	2.9	-5.2	1
85.0	2250	-14.1789	-0.98749	0.000781	0.001299	3.0	5.4	1600
95.0	2000	-14.3429	-0.99494	0.000533	0.001386	2.3	4.2	1400
110.0	2000	-14.5517	-0.99157	0.001053	0.001388	2.4	-4.5	2000
130.0	1800	-14.7338	-0.99646	0.000911	0.001478	1.9	-3.5	1
150.0	1800	-14.8547	-0.99361	0.001242	0.001482	2.0	3.7	1400
170.0	1800	-14.9130	-0.99151	0.001434	0.001481	2.0	3.8	1400

^a If less than 3000 m, dose beyond this range is less than 10^{-30} rad/photon

Source Energy 1 MeV								
ϕ_j (deg.)	Fit Range ^a x_M (m)	LBRF Fit Parameters				Deviations		
		a	b	c	d	Aver. (%)	Max. (%)	x_{max} (m)
0.5	3000	-7.2747	-1.00801	0.006846	0.000044	0.7	1.1	3000
1.5	3000	-8.3949	-1.01891	0.005188	0.000218	1.2	-2.0	1800
2.5	3000	-8.9354	-1.02285	0.004097	0.000340	1.3	-2.0	20
4.0	3000	-9.4519	-1.02493	0.002961	0.000471	1.2	-2.0	20
6.0	3000	-9.9231	-1.02462	0.001985	0.000587	1.0	1.7	200
8.5	3000	-10.3553	-1.02305	0.001169	0.000688	0.9	1.4	200
12.5	3000	-10.9008	-1.01278	0.000490	0.000783	1.4	-2.1	700
17.5	3000	-11.4371	-1.00202	0.000077	0.000853	2.1	-3.1	600
25.0	3000	-12.0549	-0.99997	-0.000320	0.000940	2.6	-4.7	500
35.0	3000	-12.7548	-0.98835	-0.000204	0.000990	3.5	6.1	2000
45.0	3000	-13.3393	-0.97309	0.000306	0.001001	4.1	-6.8	3000
55.0	2750	-13.7822	-0.97548	0.000311	0.001077	3.9	-6.5	500
65.0	2500	-14.1180	-0.98505	0.000176	0.001169	3.3	-5.9	400
75.0	2500	-14.4241	-0.97714	0.000791	0.001163	3.5	-6.0	400
85.0	2250	-14.6487	-0.98414	0.000615	0.001252	2.8	-5.1	2250
95.0	2250	-14.8431	-0.98171	0.001045	0.001257	3.0	5.4	1600
110.0	2000	-15.0579	-0.98864	0.000881	0.001355	2.3	-4.3	2000
130.0	2000	-15.2742	-0.98652	0.001393	0.001366	2.5	4.6	1400
150.0	1800	-15.3956	-0.99357	0.001138	0.001452	1.9	-3.5	1800
170.0	1800	-15.4606	-0.99323	0.001309	0.001455	1.9	3.6	1400

^a If less than 3000 m, dose beyond this range is less than 10^{-30} rad/photon

Design Information Transmittal

From:	Steve Huebsch Design Engineering Supervisor , NEER		
To :	Matt Wilkinson, Project Manager		
Document/ EC/ Tracking Number:	Contract Number 2324944	Date: 7/18/19	DIT No: 01
	Release 042		
Document Title:	Decay Heat Calculation		
Facility/ Unit:	Duane Arnold	Quality Classification	1

SUBJECT: Transfer of design inputs in order for ENERCON to perform three separate analysis are being requested to support the Reduction in EP staff following removal of all fuel from the reactor and revision of the Fuel Handling Accident. These calculations are: Revision of the Fuel Handling Accident to determine when Reduction of commitment for the Control Building will be allowed, Determination of the fuel cladding (zirc fire) 10 hour minimum time allowance, and the Spent Fuel Pool loss of inventory Shine Dose Analysis.

Check if applicable:

This DIT confirms information previously transmitted orally on _____ by _____.

This information is preliminary. See explanation below.

SOURCE OF INFORMATION (Source documents should be uniquely identified)

CAL-F18-003 Revision 1
CAL-F16-010 Revision 0
CAL-F18-005 Revision 0
GNF Bundle Design Reports Cycles 1-27
GNF Cycle Summary Reports Cycles 1-23

DESCRIPTION OF INFORMATION (Write the information being transmitted or list each document being transmitted)

Information is specific to the design and operating time associated with the fuel used in the Duane Arnold reactor. The data is specific to fuel currently in the spent fuel pool or to be removed from the vessel and stored in the spent fuel pool following the shutdown in fall 2020 at the end of plant life. Information is detailed in the attachment. Prepared and reviewed by the engineers in the NEER/FPL Corporate Nuclear Fuels group.

Design Information Transmittal

DISTRIBUTION (Recipients should receive all attachments unless otherwise indicated. All attachments are uncontrolled unless otherwise indicated)

- Matt Wilkinson- Enercon
- Guy Spikes – Enercon
- Dwayne Blaylock- Enercon
- Brian Froese- Enercon
- Emilio Fuentes - NEER
- Steve Huebsch –NEER
- Brad Lindley- NEER
- Zach Cloe- NEER

PREPARED BY (The Preparer and Approver may be the same person.)

James French	Nuclear Fuels Engineer		7/19/19
Preparer Name	Position	Signature	Date

VERIFIED BY (Design verification is required if the information is not a verified design output. Verification is also required if the information is developed, interpreted, or extracted from an unverified source. Otherwise, N/A).

Emilio Fuentes	Nuclear Fuels Manager		7/19/2019
Verifier Name	Position	Signature	Date

APPROVED BY (The cognizant Engineering Supervisor has release authority. Consult the Design Interface Agreement or local procedures to determine who else has release authority.)

Steve Huebsch	Design Engineering Supervisor		7/20/19
Approver Name	Position	Signature	Date

A copy of the DIT (along with any attachments not on file) should be included with the associated EC or document record.

Attachment 4

Inventory Design Inputs (item 2)

- Current SFP Inventory with the following for each assembly ([note – projected inventory after 2020 ISFSI campaign](#))
 - Assembly Type – [See Table 1](#)
 - Initial Enrichment – [See Table 1](#)
 - Burnup – [See Table 1](#)
 - MTU – [See Table 1](#)
 - Discharge Date – [See Table 1](#)
- Projected discharge to the SFP at the end of operations
 - Estimated discharge (shutdown) date and total number of assemblies discharged – [11/30/2020, 368](#)
 - Assembly Type – [assemblies starting with YLD and 26U are GNF2; assemblies starting with 27U are GNF2.02](#)
 - Initial enrichment of each assembly – [See Table 2](#)
 - Estimated burnup of each assembly – [See Table 2](#)
 - MTU for each assembly – [See Table 2](#)

Attachment 4

Table 1 – Spent Fuel Pool Inventory

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
AR053	GE3	1.100	6.524	187.60	2/13/1976
AR054	GE3	1.100	7.992	187.60	2/13/1976
AR055	GE3	1.100	6.443	187.60	2/13/1976
AR056	GE3	1.100	7.110	187.60	2/13/1976
AR057	GE3	1.100	7.217	187.60	2/13/1976
AR058	GE3	1.100	6.521	187.60	2/13/1976
AR059	GE3	1.100	7.222	187.60	2/13/1976
AR060	GE3	1.100	6.487	187.60	2/13/1976
AR061	GE3	1.100	6.620	187.60	2/13/1976
AR062	GE3	1.100	6.401	187.60	2/13/1976
AR063	GE3	1.100	7.168	187.60	2/13/1976
AR064	GE3	1.100	6.509	187.60	2/13/1976
AR065	GE3	1.100	7.470	187.60	2/13/1976
AR066	GE3	1.100	6.617	187.60	2/13/1976
AR067	GE3	1.100	7.169	187.60	2/13/1976
AR068	GE3	1.100	6.323	187.60	2/13/1976
AR069	GE3	1.100	7.621	187.60	2/13/1976
AR070	GE3	1.100	6.443	187.60	2/13/1976
AR071	GE3	1.100	7.471	187.60	2/13/1976
AR072	GE3	1.100	6.617	187.60	2/13/1976
AR073	GE3	1.100	6.521	187.60	2/13/1976
AR074	GE3	1.100	6.592	187.60	2/13/1976
AR075	GE3	1.100	7.472	187.60	2/13/1976
AR076	GE3	1.100	7.113	187.60	2/13/1976
AR077	GE3	1.100	7.216	187.60	2/13/1976
AR078	GE3	1.100	7.167	187.60	2/13/1976
AR079	GE3	1.100	7.331	187.60	2/13/1976
AR080	GE3	1.100	7.240	187.60	2/13/1976
AR082	GE3	2.120	17.823	187.40	2/9/1980
AR090	GE3	2.120	16.174	187.40	6/17/1978
AR093	GE3	2.120	18.129	187.40	2/9/1980
AR102	GE3	2.120	18.734	187.40	2/9/1980
AR104	GE3	2.120	18.020	187.40	2/9/1980
AR156	GE3	2.120	4.150	187.40	6/6/1975
AR233	GE3	2.120	16.383	187.40	3/18/1978
AR239	GE3	2.120	14.532	187.40	6/17/1978

Attachment 4

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
AR241	GE3	2.120	16.429	187.40	3/18/1978
AR249	GE3	2.120	15.980	187.20	3/12/1977
AR337	GE3	2.120	16.078	187.20	3/12/1977
AR341	GE3	2.120	15.741	187.20	6/17/1978
AR350	GE3	2.120	15.865	187.20	6/17/1978
AR356	GE3	2.120	5.673	187.20	6/6/1975
JLE320	GE14	3.984	40.906	179.33	2/4/2007
JLE321	GE14	3.984	42.182	179.33	2/4/2007
JLE324	GE14	3.984	42.146	179.33	2/4/2007
JLE329	GE14	3.984	41.088	179.33	2/4/2007
JLE330	GE14	3.984	41.091	179.33	2/4/2007
JLE331	GE14	3.984	41.057	179.33	2/4/2007
JLE344	GE14	3.984	41.921	179.33	2/4/2007
JLE345	GE14	3.984	42.216	179.33	2/4/2007
JLE346	GE14	3.984	42.178	179.33	2/4/2007
JLE349	GE14	3.984	41.830	179.33	2/4/2007
JLE350	GE14	3.984	41.822	179.33	2/4/2007
JLE351	GE14	3.984	41.765	179.33	2/4/2007
JLE354	GE14	3.984	42.819	179.33	2/4/2007
JLE355	GE14	3.984	42.788	179.33	2/4/2007
JLE356	GE14	3.984	42.793	179.33	2/4/2007
JLE367	GE14	3.984	43.874	179.33	2/1/2009
JLE373	GE14	3.984	41.888	179.33	2/4/2007
JLE374	GE14	3.984	41.891	179.33	2/4/2007
JLE375	GE14	3.984	41.871	179.33	2/4/2007
JLE378	GE14	3.984	42.341	179.33	2/4/2007
JLE379	GE14	3.984	42.331	179.33	2/4/2007
JLE380	GE14	3.984	42.319	179.33	2/4/2007
JLE383	GE14	3.984	42.872	179.33	2/4/2007
JLE384	GE14	3.984	42.863	179.33	2/4/2007
JLE385	GE14	3.984	42.387	179.33	2/4/2007
JLE398	GE14	3.984	38.779	179.33	2/4/2007
JLE399	GE14	3.984	38.747	179.33	2/4/2007
JLE400	GE14	3.984	38.763	179.33	2/4/2007
JLE403	GE14	3.984	41.286	179.33	2/4/2007
JLE404	GE14	3.984	41.283	179.33	2/4/2007
JLE405	GE14	3.984	39.383	179.33	2/4/2007

Attachment 4

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLE408	GE14	3.984	39.395	179.33	2/4/2007
JLE409	GE14	3.984	43.621	179.33	2/1/2009
JLE410	GE14	3.984	43.624	179.33	2/1/2009
JLE417	GE14	4.382	44.929	179.99	2/1/2009
JLE418	GE14	4.382	44.926	179.99	2/1/2009
JLE419	GE14	4.382	44.903	179.99	2/1/2009
JLE420	GE14	4.382	44.903	179.99	2/1/2009
JLE421	GE14	4.382	44.800	179.99	2/1/2009
JLE422	GE14	4.382	44.803	179.99	2/1/2009
JLE423	GE14	4.382	44.785	179.99	2/1/2009
JLE424	GE14	4.382	44.800	179.99	2/1/2009
JLE425	GE14	4.382	45.033	179.99	2/1/2009
JLE426	GE14	4.382	45.036	179.99	2/1/2009
JLE427	GE14	4.382	45.033	179.99	2/1/2009
JLE428	GE14	4.382	45.027	179.99	2/1/2009
JLE429	GE14	4.382	44.400	179.99	2/1/2009
JLE430	GE14	4.382	44.386	179.99	2/1/2009
JLE431	GE14	4.382	44.410	179.99	2/1/2009
JLE432	GE14	4.382	44.401	179.99	2/1/2009
JLE433	GE14	4.382	44.859	179.99	2/1/2009
JLE434	GE14	4.382	44.851	179.99	2/1/2009
JLE435	GE14	4.382	44.864	179.99	2/1/2009
JLE436	GE14	4.382	44.861	179.99	2/1/2009
JLE437	GE14	4.382	44.489	179.99	2/1/2009
JLE438	GE14	4.382	44.487	179.99	2/1/2009
JLE439	GE14	4.382	44.491	179.99	2/1/2009
JLE440	GE14	4.382	44.489	179.99	2/1/2009
JLE441	GE14	4.382	44.355	179.99	2/1/2009
JLE442	GE14	4.382	44.387	179.99	2/1/2009
JLE443	GE14	4.382	44.370	179.99	2/1/2009
JLE444	GE14	4.382	44.376	179.99	2/1/2009
JLE445	GE14	4.382	44.504	179.99	2/1/2009
JLE446	GE14	4.382	44.490	179.99	2/1/2009
JLE447	GE14	4.382	44.475	179.99	2/1/2009
JLE448	GE14	4.382	44.517	179.99	2/1/2009
JLE449	GE14	4.396	49.358	179.52	2/1/2009
JLE450	GE14	4.396	49.321	179.52	2/1/2009

Attachment 4

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLE451	GE14	4.396	49.269	179.52	2/1/2009
JLE452	GE14	4.396	49.287	179.52	2/1/2009
JLE453	GE14	4.396	47.928	179.52	2/1/2009
JLE454	GE14	4.396	47.941	179.52	2/1/2009
JLE455	GE14	4.396	47.921	179.52	2/1/2009
JLE456	GE14	4.396	47.949	179.52	2/1/2009
JLE457	GE14	4.396	47.899	179.52	2/1/2009
JLE458	GE14	4.396	47.937	179.52	2/1/2009
JLE459	GE14	4.396	47.919	179.52	2/1/2009
JLE460	GE14	4.396	47.894	179.52	2/1/2009
JLE461	GE14	4.396	49.326	179.52	2/1/2009
JLE462	GE14	4.396	49.294	179.52	2/1/2009
JLE463	GE14	4.396	49.331	179.52	2/1/2009
JLE464	GE14	4.396	49.268	179.52	2/1/2009
JLR101	GE14	4.204	42.724	179.09	10/23/2010
JLR102	GE14	4.204	42.720	179.09	10/23/2010
JLR103	GE14	4.204	42.696	179.09	10/23/2010
JLR104	GE14	4.204	42.687	179.09	10/23/2010
JLR105	GE14	4.204	48.394	179.09	10/23/2010
JLR106	GE14	4.204	48.388	179.09	10/23/2010
JLR107	GE14	4.204	48.292	179.09	10/23/2010
JLR108	GE14	4.204	48.309	179.09	10/23/2010
JLR109	GE14	4.204	43.638	179.09	2/1/2009
JLR110	GE14	4.204	43.615	179.09	2/1/2009
JLR111	GE14	4.204	43.578	179.09	2/1/2009
JLR112	GE14	4.204	43.577	179.09	2/1/2009
JLR113	GE14	4.204	44.488	179.09	2/1/2009
JLR114	GE14	4.204	44.498	179.09	2/1/2009
JLR115	GE14	4.204	44.455	179.09	2/1/2009
JLR116	GE14	4.204	44.471	179.09	2/1/2009
JLR117	GE14	4.204	43.536	179.09	2/1/2009
JLR118	GE14	4.204	43.529	179.09	2/1/2009
JLR119	GE14	4.204	43.503	179.09	2/1/2009
JLR120	GE14	4.204	43.485	179.09	2/1/2009
JLR121	GE14	4.204	43.159	179.09	2/1/2009
JLR122	GE14	4.204	43.141	179.09	2/1/2009
JLR123	GE14	4.204	43.066	179.09	2/1/2009

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Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLR124	GE14	4.204	43.067	179.09	2/1/2009
JLR125	GE14	4.204	42.771	179.09	2/1/2009
JLR126	GE14	4.204	42.766	179.09	2/1/2009
JLR127	GE14	4.204	42.723	179.09	2/1/2009
JLR128	GE14	4.204	42.733	179.09	2/1/2009
JLR129	GE14	4.204	43.187	179.09	2/1/2009
JLR130	GE14	4.204	43.173	179.09	2/1/2009
JLR131	GE14	4.204	43.140	179.09	2/1/2009
JLR132	GE14	4.204	43.138	179.09	2/1/2009
JLR133	GE14	4.204	43.314	179.09	2/1/2009
JLR134	GE14	4.204	43.318	179.09	2/1/2009
JLR135	GE14	4.204	43.290	179.09	2/1/2009
JLR136	GE14	4.204	43.288	179.09	2/1/2009
JLR137	GE14	4.204	43.190	179.09	2/1/2009
JLR138	GE14	4.204	43.165	179.09	2/1/2009
JLR139	GE14	4.204	43.170	179.09	2/1/2009
JLR140	GE14	4.204	43.182	179.09	2/1/2009
JLR141	GE14	4.204	43.583	179.09	2/1/2009
JLR142	GE14	4.204	43.582	179.09	2/1/2009
JLR143	GE14	4.204	43.546	179.09	2/1/2009
JLR144	GE14	4.204	43.560	179.09	2/1/2009
JLR145	GE14	4.204	49.563	179.09	10/23/2010
JLR146	GE14	4.204	49.560	179.09	10/23/2010
JLR147	GE14	4.204	49.524	179.09	10/23/2010
JLR148	GE14	4.204	49.514	179.09	10/23/2010
JLR149	GE14	4.204	42.549	179.09	10/23/2010
JLR150	GE14	4.204	42.517	179.09	10/23/2010
JLR151	GE14	4.204	42.565	179.09	10/23/2010
JLR152	GE14	4.204	42.586	179.09	10/23/2010
JLR153	GE14	4.204	44.383	179.09	2/1/2009
JLR154	GE14	4.204	44.357	179.09	2/1/2009
JLR155	GE14	4.204	44.308	179.09	2/1/2009
JLR156	GE14	4.204	44.328	179.09	2/1/2009
JLR157	GE14	4.204	43.958	179.09	10/23/2010
JLR158	GE14	4.204	43.941	179.09	10/23/2010
JLR159	GE14	4.204	43.915	179.09	10/23/2010
JLR160	GE14	4.204	43.929	179.09	10/23/2010

Attachment 4

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLR161	GE14	4.204	44.514	179.09	2/1/2009
JLR162	GE14	4.204	44.491	179.09	2/1/2009
JLR163	GE14	4.204	44.494	179.09	2/1/2009
JLR164	GE14	4.204	44.480	179.09	2/1/2009
JLR165	GE14	4.204	48.321	179.09	10/23/2010
JLR166	GE14	4.204	48.270	179.09	10/23/2010
JLR167	GE14	4.204	48.256	179.09	10/23/2010
JLR168	GE14	4.204	48.292	179.09	10/23/2010
JLR169	GE14	4.204	44.353	179.09	2/1/2009
JLR170	GE14	4.204	44.355	179.09	2/1/2009
JLR171	GE14	4.204	44.365	179.09	2/1/2009
JLR172	GE14	4.204	44.335	179.09	2/1/2009
JLR173	GE14	4.204	43.588	179.09	2/1/2009
JLR174	GE14	4.204	43.536	179.09	2/1/2009
JLR175	GE14	4.204	43.541	179.09	2/1/2009
JLR176	GE14	4.204	43.559	179.09	2/1/2009
JLR177	GE14	4.204	43.191	179.09	2/1/2009
JLR178	GE14	4.204	43.149	179.09	2/1/2009
JLR179	GE14	4.204	43.175	179.09	2/1/2009
JLR180	GE14	4.204	43.191	179.09	2/1/2009
JLR181	GE14	4.385	49.963	179.52	10/23/2010
JLR182	GE14	4.385	49.094	179.52	10/23/2010
JLR183	GE14	4.385	49.078	179.52	10/23/2010
JLR184	GE14	4.385	49.062	179.52	10/23/2010
JLR185	GE14	4.385	39.925	179.52	10/23/2010
JLR186	GE14	4.385	39.950	179.52	10/23/2010
JLR187	GE14	4.385	39.883	179.52	10/23/2010
JLR188	GE14	4.385	39.922	179.52	10/23/2010
JLR189	GE14	4.385	44.005	179.52	10/23/2010
JLR190	GE14	4.385	44.004	179.52	10/23/2010
JLR191	GE14	4.385	44.002	179.52	10/23/2010
JLR192	GE14	4.385	43.969	179.52	10/23/2010
JLR193	GE14	4.385	44.687	179.52	10/23/2010
JLR194	GE14	4.385	44.637	179.52	10/23/2010
JLR195	GE14	4.385	44.591	179.52	10/23/2010
JLR196	GE14	4.385	44.580	179.52	10/23/2010
JLR197	GE14	4.385	42.416	179.52	2/1/2009

Attachment 4

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLR198	GE14	4.385	42.432	179.52	2/1/2009
JLR199	GE14	4.385	42.409	179.52	2/1/2009
JLR200	GE14	4.385	42.410	179.52	2/1/2009
JLR201	GE14	4.385	39.896	179.52	10/23/2010
JLR202	GE14	4.385	39.867	179.52	10/23/2010
JLR203	GE14	4.385	39.869	179.52	10/23/2010
JLR204	GE14	4.385	39.871	179.52	10/23/2010
JLR205	GE14	4.385	49.220	179.52	10/23/2010
JLR206	GE14	4.385	49.220	179.52	10/23/2010
JLR207	GE14	4.385	49.150	179.52	10/23/2010
JLR208	GE14	4.385	49.159	179.52	10/23/2010
JLR209	GE14	4.385	44.010	179.52	10/23/2010
JLR210	GE14	4.385	44.001	179.52	10/23/2010
JLR211	GE14	4.385	43.947	179.52	10/23/2010
JLR212	GE14	4.385	43.961	179.52	10/23/2010
JLR213	GE14	4.385	44.797	179.52	10/23/2010
JLR214	GE14	4.385	44.771	179.52	10/23/2010
JLR215	GE14	4.385	44.768	179.52	10/23/2010
JLR216	GE14	4.385	44.775	179.52	10/23/2010
JLR217	GE14	4.385	49.068	179.52	10/23/2010
JLR218	GE14	4.385	49.870	179.52	10/23/2010
JLR219	GE14	4.385	49.858	179.52	10/23/2010
JLR220	GE14	4.385	49.870	179.52	10/23/2010
JLR221	GE14	4.204	43.374	179.04	2/1/2009
JLR222	GE14	4.204	43.310	179.04	2/1/2009
JLR223	GE14	4.204	43.302	179.04	2/1/2009
JLR224	GE14	4.204	43.267	179.04	2/1/2009
JLR225	GE14	4.204	49.792	179.04	10/23/2010
JLR226	GE14	4.204	49.768	179.04	10/23/2010
JLR227	GE14	4.204	49.770	179.04	10/23/2010
JLR228	GE14	4.204	49.778	179.04	10/23/2010
JLR229	GE14	4.204	42.996	179.04	2/1/2009
JLR230	GE14	4.204	42.950	179.04	2/1/2009
JLR231	GE14	4.204	42.927	179.04	2/1/2009
JLR232	GE14	4.204	42.946	179.04	2/1/2009
JLR233	GE14	4.204	43.601	179.04	2/1/2009
JLR234	GE14	4.204	43.593	179.04	2/1/2009

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLR235	GE14	4.204	43.503	179.04	2/1/2009
JLR236	GE14	4.204	43.471	179.04	2/1/2009
JLR237	GE14	4.204	43.499	179.04	2/1/2009
JLR238	GE14	4.204	43.502	179.04	2/1/2009
JLR239	GE14	4.204	43.431	179.04	2/1/2009
JLR240	GE14	4.204	43.441	179.04	2/1/2009
JLR241	GE14	4.204	42.942	179.04	2/1/2009
JLR242	GE14	4.204	42.915	179.04	2/1/2009
JLR243	GE14	4.204	42.880	179.04	2/1/2009
JLR244	GE14	4.204	42.870	179.04	2/1/2009
JLR245	GE14	4.204	41.079	179.04	2/1/2009
JLR246	GE14	4.204	41.075	179.04	2/1/2009
JLR247	GE14	4.204	41.079	179.04	2/1/2009
JLR248	GE14	4.204	41.059	179.04	2/1/2009
JLR249	GE14	4.204	43.439	179.04	2/1/2009
JLR250	GE14	4.204	43.398	179.04	2/1/2009
JLR251	GE14	4.204	43.369	179.04	2/1/2009
JLR252	GE14	4.204	43.368	179.04	2/1/2009
JLZ521	GE14	4.382	49.938	179.99	10/6/2012
JLZ522	GE14	4.382	40.362	179.99	10/23/2010
JLZ523	GE14	4.382	41.885	179.99	10/6/2012
JLZ524	GE14	4.382	42.409	179.99	10/6/2012
JLZ525	GE14	4.382	44.344	179.99	10/6/2012
JLZ526	GE14	4.382	44.320	179.99	10/6/2012
JLZ527	GE14	4.382	42.215	179.99	10/6/2012
JLZ528	GE14	4.382	41.799	179.99	10/6/2012
JLZ529	GE14	4.382	47.894	179.99	10/6/2012
JLZ530	GE14	4.382	49.107	179.99	10/6/2012
JLZ531	GE14	4.382	49.086	179.99	10/6/2012
JLZ532	GE14	4.382	47.883	179.99	10/6/2012
JLZ533	GE14	4.382	41.790	179.99	10/6/2012
JLZ534	GE14	4.382	42.230	179.99	10/6/2012
JLZ535	GE14	4.382	44.376	179.99	10/6/2012
JLZ536	GE14	4.382	44.380	179.99	10/6/2012
JLZ537	GE14	4.382	42.468	179.99	10/6/2012
JLZ538	GE14	4.382	41.928	179.99	10/6/2012
JLZ539	GE14	4.382	40.352	179.99	10/23/2010

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLZ540	GE14	4.382	49.915	179.99	10/6/2012
JLZ541	GE14	4.382	49.946	179.99	10/6/2012
JLZ542	GE14	4.382	40.401	179.99	10/23/2010
JLZ543	GE14	4.382	41.912	179.99	10/6/2012
JLZ544	GE14	4.382	42.478	179.99	10/6/2012
JLZ545	GE14	4.382	44.432	179.99	10/6/2012
JLZ546	GE14	4.382	44.374	179.99	10/6/2012
JLZ547	GE14	4.382	42.246	179.99	10/6/2012
JLZ548	GE14	4.382	41.788	179.99	10/6/2012
JLZ549	GE14	4.382	47.893	179.99	10/6/2012
JLZ550	GE14	4.382	49.104	179.99	10/6/2012
JLZ551	GE14	4.382	49.068	179.99	10/6/2012
JLZ552	GE14	4.382	47.878	179.99	10/6/2012
JLZ553	GE14	4.382	41.828	179.99	10/6/2012
JLZ554	GE14	4.382	42.329	179.99	10/6/2012
JLZ555	GE14	4.382	44.402	179.99	10/6/2012
JLZ556	GE14	4.382	44.452	179.99	10/6/2012
JLZ557	GE14	4.382	42.490	179.99	10/6/2012
JLZ558	GE14	4.382	41.946	179.99	10/6/2012
JLZ559	GE14	4.382	40.420	179.99	10/23/2010
JLZ560	GE14	4.382	49.966	179.99	10/6/2012
JLZ561	GE14	4.095	48.695	178.89	10/6/2012
JLZ562	GE14	4.095	41.617	178.89	10/23/2010
JLZ563	GE14	4.095	49.380	178.89	10/6/2012
JLZ564	GE14	4.095	42.416	178.89	10/23/2010
JLZ565	GE14	4.095	43.020	178.89	10/23/2010
JLZ566	GE14	4.095	43.075	178.89	10/23/2010
JLZ567	GE14	4.095	48.861	178.89	10/6/2012
JLZ568	GE14	4.095	42.436	178.89	10/23/2010
JLZ569	GE14	4.095	43.262	178.89	10/23/2010
JLZ570	GE14	4.095	41.234	178.89	10/23/2010
JLZ571	GE14	4.095	40.078	178.89	10/23/2010
JLZ572	GE14	4.095	43.417	178.89	10/23/2010
JLZ573	GE14	4.095	41.325	178.89	10/23/2010
JLZ574	GE14	4.095	42.765	178.89	10/23/2010
JLZ575	GE14	4.095	40.257	178.89	10/23/2010
JLZ576	GE14	4.095	43.303	178.89	10/23/2010

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLZ577	GE14	4.095	40.998	178.89	10/23/2010
JLZ578	GE14	4.095	42.250	178.89	10/23/2010
JLZ579	GE14	4.095	42.598	178.89	10/23/2010
JLZ580	GE14	4.095	42.832	178.89	10/23/2010
JLZ581	GE14	4.095	43.110	178.89	10/23/2010
JLZ582	GE14	4.095	42.340	178.89	10/6/2012
JLZ583	GE14	4.095	43.083	178.89	10/23/2010
JLZ584	GE14	4.095	42.322	178.89	10/6/2012
JLZ585	GE14	4.095	42.243	178.89	10/23/2010
JLZ586	GE14	4.095	42.575	178.89	10/23/2010
JLZ587	GE14	4.095	42.830	178.89	10/23/2010
JLZ588	GE14	4.095	42.715	178.89	10/23/2010
JLZ589	GE14	4.095	40.237	178.89	10/23/2010
JLZ590	GE14	4.095	43.298	178.89	10/23/2010
JLZ591	GE14	4.095	41.039	178.89	10/23/2010
JLZ592	GE14	4.095	40.109	178.89	10/23/2010
JLZ593	GE14	4.095	43.409	178.89	10/23/2010
JLZ594	GE14	4.095	41.306	178.89	10/23/2010
JLZ595	GE14	4.095	42.443	178.89	10/23/2010
JLZ596	GE14	4.095	43.282	178.89	10/23/2010
JLZ597	GE14	4.095	41.301	178.89	10/23/2010
JLZ598	GE14	4.095	43.017	178.89	10/23/2010
JLZ599	GE14	4.095	43.063	178.89	10/23/2010
JLZ600	GE14	4.095	48.878	178.89	10/6/2012
JLZ601	GE14	4.095	49.406	178.89	10/6/2012
JLZ602	GE14	4.095	42.401	178.89	10/23/2010
JLZ603	GE14	4.095	48.689	178.89	10/6/2012
JLZ604	GE14	4.095	41.652	178.89	10/23/2010
JLZ605	GE14	4.095	41.644	178.89	10/23/2010
JLZ606	GE14	4.095	48.702	178.89	10/6/2012
JLZ607	GE14	4.095	42.393	178.89	10/23/2010
JLZ608	GE14	4.095	49.387	178.89	10/6/2012
JLZ609	GE14	4.095	48.884	178.89	10/6/2012
JLZ610	GE14	4.095	43.053	178.89	10/23/2010
JLZ611	GE14	4.095	43.014	178.89	10/23/2010
JLZ612	GE14	4.095	41.268	178.89	10/23/2010
JLZ613	GE14	4.095	43.262	178.89	10/23/2010

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLZ614	GE14	4.095	42.400	178.89	10/23/2010
JLZ615	GE14	4.095	41.267	178.89	10/23/2010
JLZ616	GE14	4.095	43.390	178.89	10/23/2010
JLZ617	GE14	4.095	40.097	178.89	10/23/2010
JLZ618	GE14	4.095	41.004	178.89	10/23/2010
JLZ619	GE14	4.095	43.252	178.89	10/23/2010
JLZ620	GE14	4.095	40.210	178.89	10/23/2010
JLZ621	GE14	4.095	42.705	178.89	10/23/2010
JLZ622	GE14	4.095	42.769	178.89	10/23/2010
JLZ623	GE14	4.095	42.515	178.89	10/23/2010
JLZ624	GE14	4.095	42.112	178.89	10/23/2010
JLZ625	GE14	4.095	42.304	178.89	10/6/2012
JLZ626	GE14	4.095	43.034	178.89	10/23/2010
JLZ627	GE14	4.095	42.324	178.89	10/6/2012
JLZ628	GE14	4.095	43.018	178.89	10/23/2010
JLZ629	GE14	4.095	42.739	178.89	10/23/2010
JLZ630	GE14	4.095	42.479	178.89	10/23/2010
JLZ631	GE14	4.095	42.115	178.89	10/23/2010
JLZ632	GE14	4.095	40.975	178.89	10/23/2010
JLZ633	GE14	4.095	43.183	178.89	10/23/2010
JLZ634	GE14	4.095	40.168	178.89	10/23/2010
JLZ635	GE14	4.095	42.745	178.89	10/23/2010
JLZ636	GE14	4.095	41.250	178.89	10/23/2010
JLZ637	GE14	4.095	43.377	178.89	10/23/2010
JLZ638	GE14	4.095	40.083	178.89	10/23/2010
JLZ639	GE14	4.095	41.198	178.89	10/23/2010
JLZ640	GE14	4.095	43.201	178.89	10/23/2010
JLZ641	GE14	4.095	42.362	178.89	10/23/2010
JLZ642	GE14	4.095	48.837	178.89	10/6/2012
JLZ643	GE14	4.095	42.990	178.89	10/23/2010
JLZ644	GE14	4.095	42.984	178.89	10/23/2010
JLZ645	GE14	4.095	42.387	178.89	10/23/2010
JLZ646	GE14	4.095	49.391	178.89	10/6/2012
JLZ647	GE14	4.095	41.675	178.89	10/23/2010
JLZ648	GE14	4.095	48.710	178.89	10/6/2012
JLZ654	GE14	4.072	50.404	178.53	10/6/2012
JLZ656	GE14	4.072	50.382	178.53	10/6/2012

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JLZ662	GE14	4.072	47.439	178.53	10/6/2012
JLZ669	GE14	4.072	41.502	178.53	10/23/2010
JLZ670	GE14	4.072	39.231	178.53	10/23/2010
JLZ672	GE14	4.072	39.241	178.53	10/23/2010
JYG101	GE14	4.053	48.920	179.41	10/4/2014
JYG102	GE14	4.053	48.926	179.41	10/4/2014
JYG103	GE14	4.053	48.786	179.41	10/4/2014
JYG104	GE14	4.053	48.800	179.41	10/4/2014
JYG125	GE14	4.071	41.873	178.89	10/6/2012
JYG126	GE14	4.071	41.805	178.89	10/6/2012
JYG127	GE14	4.071	41.762	178.89	10/6/2012
JYG128	GE14	4.071	41.785	178.89	10/6/2012
JYG129	GE14	4.071	40.946	178.89	10/6/2012
JYG130	GE14	4.071	40.919	178.89	10/6/2012
JYG131	GE14	4.071	40.847	178.89	10/6/2012
JYG132	GE14	4.071	40.835	178.89	10/6/2012
JYG133	GE14	4.071	41.424	178.89	10/6/2012
JYG134	GE14	4.071	41.372	178.89	10/6/2012
JYG135	GE14	4.071	41.403	178.89	10/6/2012
JYG136	GE14	4.071	41.398	178.89	10/6/2012
JYG137	GE14	4.071	41.672	178.89	10/6/2012
JYG138	GE14	4.071	41.642	178.89	10/6/2012
JYG139	GE14	4.071	41.590	178.89	10/6/2012
JYG140	GE14	4.071	41.556	178.89	10/6/2012
JYG141	GE14	4.071	41.423	178.89	10/6/2012
JYG142	GE14	4.071	41.333	178.89	10/6/2012
JYG143	GE14	4.071	41.307	178.89	10/6/2012
JYG144	GE14	4.071	41.341	178.89	10/6/2012
JYG145	GE14	4.071	42.099	178.89	10/6/2012
JYG146	GE14	4.071	42.077	178.89	10/6/2012
JYG147	GE14	4.071	42.076	178.89	10/6/2012
JYG148	GE14	4.071	42.113	178.89	10/6/2012
JYG149	GE14	4.088	39.992	178.99	10/6/2012
JYG150	GE14	4.088	39.964	178.99	10/6/2012
JYG151	GE14	4.088	39.949	178.99	10/6/2012
JYG152	GE14	4.088	39.937	178.99	10/6/2012
JYG153	GE14	4.088	42.217	178.99	10/6/2012

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYG154	GE14	4.088	42.187	178.99	10/6/2012
JYG155	GE14	4.088	42.160	178.99	10/6/2012
JYG156	GE14	4.088	42.151	178.99	10/6/2012
JYG157	GE14	4.088	42.340	178.99	10/6/2012
JYG158	GE14	4.088	42.291	178.99	10/6/2012
JYG159	GE14	4.088	42.286	178.99	10/6/2012
JYG160	GE14	4.088	42.264	178.99	10/6/2012
JYG161	GE14	4.088	39.953	178.99	10/6/2012
JYG162	GE14	4.088	39.923	178.99	10/6/2012
JYG163	GE14	4.088	39.937	178.99	10/6/2012
JYG164	GE14	4.088	39.933	178.99	10/6/2012
JYG165	GE14	4.133	42.654	179.28	10/6/2012
JYG166	GE14	4.133	42.642	179.28	10/6/2012
JYG167	GE14	4.133	42.593	179.28	10/6/2012
JYG168	GE14	4.133	42.661	179.28	10/6/2012
JYG169	GE14	4.133	42.243	179.28	10/6/2012
JYG170	GE14	4.133	42.211	179.28	10/6/2012
JYG171	GE14	4.133	42.167	179.28	10/6/2012
JYG172	GE14	4.133	42.184	179.28	10/6/2012
JYG173	GE14	4.133	42.139	179.28	10/6/2012
JYG174	GE14	4.133	42.110	179.28	10/6/2012
JYG175	GE14	4.133	42.097	179.28	10/6/2012
JYG176	GE14	4.133	42.083	179.28	10/6/2012
JYG177	GE14	4.133	42.896	179.28	10/6/2012
JYG178	GE14	4.133	42.863	179.28	10/6/2012
JYG179	GE14	4.133	42.864	179.28	10/6/2012
JYG180	GE14	4.133	42.864	179.28	10/6/2012
JYG181	GE14	4.205	48.707	179.08	10/4/2014
JYG182	GE14	4.205	48.713	179.08	10/4/2014
JYG183	GE14	4.205	48.695	179.08	10/4/2014
JYG184	GE14	4.205	48.688	179.08	10/4/2014
JYG185	GE14	4.205	48.336	179.08	10/4/2014
JYG186	GE14	4.205	48.334	179.08	10/4/2014
JYG187	GE14	4.205	48.286	179.08	10/4/2014
JYG188	GE14	4.205	48.263	179.08	10/4/2014
JYG189	GE14	4.205	49.079	179.08	10/4/2014
JYG190	GE14	4.205	49.108	179.08	10/4/2014

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYG191	GE14	4.205	49.080	179.08	10/4/2014
JYG192	GE14	4.205	49.076	179.08	10/4/2014
JYG193	GE14	4.205	41.780	179.08	10/4/2014
JYG194	GE14	4.205	41.778	179.08	10/4/2014
JYG195	GE14	4.205	41.757	179.08	10/4/2014
JYG196	GE14	4.205	41.751	179.08	10/4/2014
JYG197	GE14	4.205	43.350	179.08	10/4/2014
JYG198	GE14	4.205	43.347	179.08	10/4/2014
JYG199	GE14	4.205	43.331	179.08	10/4/2014
JYG200	GE14	4.205	43.318	179.08	10/4/2014
JYG201	GE14	4.205	41.190	179.08	10/6/2012
JYG202	GE14	4.205	41.150	179.08	10/6/2012
JYG203	GE14	4.205	41.138	179.08	10/6/2012
JYG204	GE14	4.205	41.178	179.08	10/6/2012
JYG205	GE14	4.205	48.143	179.08	10/4/2014
JYG206	GE14	4.205	48.117	179.08	10/4/2014
JYG207	GE14	4.205	48.095	179.08	10/4/2014
JYG208	GE14	4.205	48.120	179.08	10/4/2014
JYG209	GE14	4.205	48.504	179.08	10/4/2014
JYG210	GE14	4.205	48.525	179.08	10/4/2014
JYG211	GE14	4.205	48.475	179.08	10/4/2014
JYG212	GE14	4.205	48.479	179.08	10/4/2014
JYG213	GE14	4.382	46.124	179.99	10/4/2014
JYG214	GE14	4.382	46.150	179.99	10/4/2014
JYG215	GE14	4.382	46.112	179.99	10/4/2014
JYG216	GE14	4.382	46.102	179.99	10/4/2014
JYG217	GE14	4.382	42.474	179.99	10/4/2014
JYG218	GE14	4.382	42.459	179.99	10/4/2014
JYG219	GE14	4.382	42.447	179.99	10/4/2014
JYG220	GE14	4.382	42.404	179.99	10/4/2014
JYG221	GE14	4.382	42.135	179.99	10/4/2014
JYG222	GE14	4.382	42.136	179.99	10/4/2014
JYG223	GE14	4.382	42.154	179.99	10/4/2014
JYG224	GE14	4.382	42.169	179.99	10/4/2014
JYG225	GE14	4.382	41.450	179.99	10/4/2014
JYG226	GE14	4.382	41.438	179.99	10/4/2014
JYG227	GE14	4.382	41.395	179.99	10/4/2014

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYG228	GE14	4.382	41.406	179.99	10/4/2014
JYG229	GE14	4.382	41.434	179.99	10/6/2012
JYG230	GE14	4.382	41.416	179.99	10/6/2012
JYG231	GE14	4.382	41.409	179.99	10/6/2012
JYG232	GE14	4.382	41.385	179.99	10/6/2012
JYG233	GE14	4.382	41.437	179.99	10/6/2012
JYG234	GE14	4.382	41.411	179.99	10/6/2012
JYG235	GE14	4.382	41.386	179.99	10/6/2012
JYG236	GE14	4.382	41.395	179.99	10/6/2012
JYG237	GE14	4.382	46.168	179.99	10/4/2014
JYG238	GE14	4.382	46.178	179.99	10/4/2014
JYG239	GE14	4.382	46.157	179.99	10/4/2014
JYG240	GE14	4.382	46.141	179.99	10/4/2014
JYG241	GE14	4.382	42.167	179.99	10/4/2014
JYG242	GE14	4.382	42.110	179.99	10/4/2014
JYG243	GE14	4.382	42.088	179.99	10/4/2014
JYG244	GE14	4.382	42.114	179.99	10/4/2014
JYG245	GE14	4.382	42.459	179.99	10/4/2014
JYG246	GE14	4.382	42.440	179.99	10/4/2014
JYG247	GE14	4.382	42.425	179.99	10/4/2014
JYG248	GE14	4.382	42.440	179.99	10/4/2014
JYG249	GE14	4.382	46.216	179.99	10/4/2014
JYG250	GE14	4.382	46.218	179.99	10/4/2014
JYG251	GE14	4.382	46.213	179.99	10/4/2014
JYG252	GE14	4.382	46.236	179.99	10/4/2014
JYM101	GE14	4.215	42.469	179.17	10/3/2016
JYM102	GE14	4.215	43.182	179.17	10/3/2016
JYM103	GE14	4.215	43.174	179.17	10/3/2016
JYM104	GE14	4.215	42.487	179.17	10/3/2016
JYM105	GE14	4.215	43.339	179.17	10/3/2016
JYM106	GE14	4.215	43.306	179.17	10/3/2016
JYM107	GE14	4.215	43.317	179.17	10/3/2016
JYM108	GE14	4.215	43.311	179.17	10/3/2016
JYM109	GE14	4.215	45.717	179.17	10/3/2016
JYM110	GE14	4.215	45.914	179.17	10/3/2016
JYM111	GE14	4.215	45.911	179.17	10/3/2016
JYM112	GE14	4.215	45.710	179.17	10/3/2016

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYM113	GE14	4.215	46.113	179.17	10/3/2016
JYM114	GE14	4.215	46.003	179.17	10/3/2016
JYM115	GE14	4.215	46.032	179.17	10/3/2016
JYM116	GE14	4.215	46.159	179.17	10/3/2016
JYM117	GE14	4.097	44.580	178.87	10/4/2014
JYM118	GE14	4.097	44.596	178.87	10/4/2014
JYM119	GE14	4.097	44.531	178.87	10/4/2014
JYM120	GE14	4.097	44.533	178.87	10/4/2014
JYM121	GE14	4.097	44.627	178.87	10/4/2014
JYM122	GE14	4.097	44.575	178.87	10/4/2014
JYM123	GE14	4.097	44.481	178.87	10/4/2014
JYM124	GE14	4.097	44.610	178.87	10/4/2014
JYM125	GE14	4.097	43.752	178.87	10/4/2014
JYM126	GE14	4.097	43.807	178.87	10/4/2014
JYM127	GE14	4.097	43.691	178.87	10/4/2014
JYM128	GE14	4.097	43.715	178.87	10/4/2014
JYM129	GE14	4.097	44.930	178.87	10/4/2014
JYM130	GE14	4.097	44.932	178.87	10/4/2014
JYM131	GE14	4.097	44.923	178.87	10/4/2014
JYM132	GE14	4.097	44.914	178.87	10/4/2014
JYM133	GE14	4.097	44.037	178.87	10/4/2014
JYM134	GE14	4.097	44.238	178.87	10/4/2014
JYM135	GE14	4.097	43.970	178.87	10/4/2014
JYM136	GE14	4.097	44.144	178.87	10/4/2014
JYM137	GE14	4.097	44.118	178.87	10/4/2014
JYM138	GE14	4.097	44.107	178.87	10/4/2014
JYM139	GE14	4.097	43.987	178.87	10/4/2014
JYM140	GE14	4.097	44.022	178.87	10/4/2014
JYM141	GE14	4.097	41.822	178.87	10/4/2014
JYM142	GE14	4.097	41.799	178.87	10/4/2014
JYM143	GE14	4.097	41.751	178.87	10/4/2014
JYM144	GE14	4.097	41.716	178.87	10/4/2014
JYM145	GE14	4.097	41.705	178.87	10/4/2014
JYM146	GE14	4.097	41.694	178.87	10/4/2014
JYM147	GE14	4.097	41.671	178.87	10/4/2014
JYM148	GE14	4.097	41.664	178.87	10/4/2014
JYM149	GE14	4.097	44.256	178.87	10/4/2014

Attachment 4

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYM150	GE14	4.097	44.238	178.87	10/4/2014
JYM151	GE14	4.097	44.118	178.87	10/4/2014
JYM152	GE14	4.097	44.118	178.87	10/4/2014
JYM153	GE14	4.097	44.420	178.87	10/4/2014
JYM154	GE14	4.097	44.558	178.87	10/4/2014
JYM155	GE14	4.097	44.312	178.87	10/4/2014
JYM156	GE14	4.097	44.455	178.87	10/4/2014
JYM157	GE14	4.097	43.436	178.87	10/4/2014
JYM158	GE14	4.097	43.391	178.87	10/4/2014
JYM159	GE14	4.097	43.327	178.87	10/4/2014
JYM160	GE14	4.097	43.375	178.87	10/4/2014
JYM161	GE14	4.097	44.864	178.87	10/4/2014
JYM162	GE14	4.097	44.895	178.87	10/4/2014
JYM163	GE14	4.097	44.772	178.87	10/4/2014
JYM164	GE14	4.097	44.815	178.87	10/4/2014
JYM165	GE14	4.097	44.735	178.87	10/4/2014
JYM166	GE14	4.097	44.740	178.87	10/4/2014
JYM167	GE14	4.097	44.665	178.87	10/4/2014
JYM168	GE14	4.097	44.690	178.87	10/4/2014
JYM169	GE14	4.097	44.918	178.87	10/4/2014
JYM170	GE14	4.097	44.958	178.87	10/4/2014
JYM171	GE14	4.097	44.874	178.87	10/4/2014
JYM172	GE14	4.097	44.953	178.87	10/4/2014
JYM173	GE14	4.111	43.902	178.82	10/4/2014
JYM174	GE14	4.111	43.864	178.82	10/4/2014
JYM175	GE14	4.111	43.818	178.82	10/4/2014
JYM176	GE14	4.111	43.882	178.82	10/4/2014
JYM177	GE14	4.111	44.086	178.82	10/4/2014
JYM178	GE14	4.111	44.042	178.82	10/4/2014
JYM179	GE14	4.111	43.943	178.82	10/4/2014
JYM180	GE14	4.111	43.977	178.82	10/4/2014
JYM181	GE14	4.111	43.726	178.82	10/3/2016
JYM182	GE14	4.111	43.687	178.82	10/3/2016
JYM183	GE14	4.111	43.694	178.82	10/3/2016
JYM184	GE14	4.111	43.626	178.82	10/3/2016
JYM185	GE14	4.111	42.484	178.82	10/3/2016
JYM186	GE14	4.111	43.412	178.82	10/3/2016

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYM187	GE14	4.111	43.393	178.82	10/3/2016
JYM188	GE14	4.111	42.420	178.82	10/3/2016
JYM189	GE14	4.111	48.290	178.82	10/3/2016
JYM190	GE14	4.111	48.865	178.82	10/3/2016
JYM191	GE14	4.111	48.878	178.82	10/3/2016
JYM192	GE14	4.111	48.372	178.82	10/3/2016
JYM193	GE14	4.111	49.115	178.82	10/3/2016
JYM194	GE14	4.111	49.054	178.82	10/3/2016
JYM195	GE14	4.111	49.036	178.82	10/3/2016
JYM196	GE14	4.111	49.116	178.82	10/3/2016
JYM197	GE14	4.111	44.718	178.82	10/4/2014
JYM198	GE14	4.111	44.765	178.82	10/4/2014
JYM199	GE14	4.111	44.682	178.82	10/4/2014
JYM200	GE14	4.111	44.671	178.82	10/4/2014
JYM201	GE14	4.111	44.205	178.82	10/4/2014
JYM202	GE14	4.111	44.217	178.82	10/4/2014
JYM203	GE14	4.111	44.153	178.82	10/4/2014
JYM204	GE14	4.111	44.189	178.82	10/4/2014
JYM212	GE14	3.971	42.817	178.81	10/4/2014
JYM220	GE14	3.971	45.083	178.81	10/4/2014
JYM221	GE14	4.382	46.877	179.99	10/3/2016
JYM222	GE14	4.382	46.805	179.99	10/3/2016
JYM223	GE14	4.382	46.773	179.99	10/3/2016
JYM224	GE14	4.382	46.871	179.99	10/3/2016
JYM225	GE14	4.382	46.817	179.99	10/3/2016
JYM226	GE14	4.382	46.922	179.99	10/3/2016
JYM227	GE14	4.382	46.876	179.99	10/3/2016
JYM228	GE14	4.382	46.867	179.99	10/3/2016
JYM229	GE14	4.382	41.368	179.99	10/3/2016
JYM230	GE14	4.382	42.724	179.99	10/3/2016
JYM231	GE14	4.382	42.759	179.99	10/3/2016
JYM232	GE14	4.382	41.429	179.99	10/3/2016
JYM233	GE14	4.382	42.913	179.99	10/3/2016
JYM234	GE14	4.382	42.849	179.99	10/3/2016
JYM235	GE14	4.382	42.843	179.99	10/3/2016
JYM236	GE14	4.382	42.914	179.99	10/3/2016
JYM237	GE14	4.382	46.800	179.99	10/3/2016

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYM238	GE14	4.382	46.743	179.99	10/3/2016
JYM239	GE14	4.382	46.737	179.99	10/3/2016
JYM240	GE14	4.382	46.804	179.99	10/3/2016
JYM241	GE14	4.382	46.691	179.99	10/3/2016
JYM242	GE14	4.382	46.724	179.99	10/3/2016
JYM243	GE14	4.382	46.744	179.99	10/3/2016
JYM244	GE14	4.382	46.755	179.99	10/3/2016
JYM245	GE14	4.382	48.480	179.99	10/3/2016
JYM246	GE14	4.382	48.324	179.99	10/3/2016
JYM247	GE14	4.382	48.310	179.99	10/3/2016
JYM248	GE14	4.382	48.469	179.99	10/3/2016
JYM249	GE14	4.382	42.949	179.99	10/3/2016
JYM250	GE14	4.382	42.896	179.99	10/3/2016
JYM251	GE14	4.382	42.899	179.99	10/3/2016
JYM252	GE14	4.382	42.936	179.99	10/3/2016
JYW743	GNF2	4.013	42.869	185.77	10/3/2016
JYW744	GNF2	4.013	42.937	185.77	10/3/2016
JYW745	GNF2	4.013	42.785	185.77	10/3/2016
JYW746	GNF2	4.013	42.716	185.77	10/3/2016
JYW747	GNF2	4.013	42.036	185.77	10/3/2016
JYW748	GNF2	4.013	43.593	185.77	10/3/2016
JYW749	GNF2	4.013	43.567	185.77	10/3/2016
JYW750	GNF2	4.013	42.044	185.77	10/3/2016
JYW751	GNF2	4.013	45.879	185.77	9/4/2018
JYW752	GNF2	4.013	45.732	185.77	9/4/2018
JYW753	GNF2	4.013	45.639	185.77	9/4/2018
JYW754	GNF2	4.013	45.798	185.77	9/4/2018
JYW755	GNF2	4.013	45.902	185.77	9/4/2018
JYW756	GNF2	4.013	46.044	185.77	9/4/2018
JYW757	GNF2	4.013	45.783	185.77	9/4/2018
JYW758	GNF2	4.013	45.978	185.77	9/4/2018
JYW759	GNF2	4.013	42.020	185.77	10/3/2016
JYW760	GNF2	4.013	43.061	185.77	10/3/2016
JYW761	GNF2	4.013	42.956	185.77	10/3/2016
JYW762	GNF2	4.013	41.931	185.77	10/3/2016
JYW763	GNF2	4.013	42.479	185.77	10/3/2016
JYW764	GNF2	4.013	42.469	185.77	10/3/2016

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYW765	GNF2	4.013	42.401	185.77	10/3/2016
JYW766	GNF2	4.013	42.486	185.77	10/3/2016
JYW767	GNF2	4.013	43.300	185.77	10/3/2016
JYW768	GNF2	4.013	43.678	185.77	10/3/2016
JYW769	GNF2	4.013	43.552	185.77	10/3/2016
JYW770	GNF2	4.013	43.216	185.77	10/3/2016
JYW771	GNF2	4.013	43.345	185.77	10/3/2016
JYW772	GNF2	4.013	43.352	185.77	10/3/2016
JYW773	GNF2	4.013	43.185	185.77	10/3/2016
JYW774	GNF2	4.013	43.341	185.77	10/3/2016
JYW775	GNF2	4.013	43.375	185.77	10/3/2016
JYW776	GNF2	4.013	43.535	185.77	10/3/2016
JYW777	GNF2	4.013	43.387	185.77	10/3/2016
JYW778	GNF2	4.013	43.253	185.77	10/3/2016
JYW779	GNF2	4.013	44.672	185.77	10/3/2016
JYW780	GNF2	4.013	43.746	185.77	10/3/2016
JYW781	GNF2	4.013	43.713	185.77	10/3/2016
JYW782	GNF2	4.013	44.687	185.77	10/3/2016
JYW783	GNF2	4.075	44.140	185.96	10/3/2016
JYW784	GNF2	4.075	43.832	185.96	10/3/2016
JYW785	GNF2	4.075	43.749	185.96	10/3/2016
JYW786	GNF2	4.075	44.115	185.96	10/3/2016
JYW787	GNF2	4.075	44.243	185.96	10/3/2016
JYW788	GNF2	4.075	44.014	185.96	10/3/2016
JYW789	GNF2	4.075	43.934	185.96	10/3/2016
JYW790	GNF2	4.075	44.228	185.96	10/3/2016
JYW791	GNF2	4.075	45.256	185.96	10/3/2016
JYW792	GNF2	4.075	44.904	185.96	10/3/2016
JYW793	GNF2	4.075	44.841	185.96	10/3/2016
JYW794	GNF2	4.075	45.225	185.96	10/3/2016
JYW795	GNF2	4.075	45.021	185.96	10/3/2016
JYW796	GNF2	4.075	44.755	185.96	10/3/2016
JYW797	GNF2	4.075	44.649	185.96	10/3/2016
JYW798	GNF2	4.075	45.049	185.96	10/3/2016
JYW799	GNF2	4.075	44.274	185.96	10/3/2016
JYW800	GNF2	4.075	43.932	185.96	10/3/2016
JYW801	GNF2	4.075	43.814	185.96	10/3/2016

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYW802	GNF2	4.075	44.226	185.96	10/3/2016
JYW803	GNF2	4.075	44.774	185.96	10/3/2016
JYW804	GNF2	4.075	44.717	185.96	10/3/2016
JYW805	GNF2	4.075	44.592	185.96	10/3/2016
JYW806	GNF2	4.075	44.796	185.96	10/3/2016
JYW807	GNF2	4.075	43.454	185.96	9/4/2018
JYW808	GNF2	4.075	44.593	185.96	9/4/2018
JYW809	GNF2	4.075	44.488	185.96	9/4/2018
JYW810	GNF2	4.075	43.438	185.96	9/4/2018
JYW811	GNF2	4.075	44.551	185.96	9/4/2018
JYW812	GNF2	4.075	44.633	185.96	9/4/2018
JYW813	GNF2	4.075	44.318	185.96	9/4/2018
JYW814	GNF2	4.075	44.528	185.96	9/4/2018
JYW815	GNF2	4.124	46.103	185.76	9/4/2018
JYW816	GNF2	4.124	46.021	185.76	9/4/2018
JYW817	GNF2	4.124	46.002	185.76	9/4/2018
JYW818	GNF2	4.124	46.098	185.76	9/4/2018
JYW819	GNF2	4.124	46.093	185.76	9/4/2018
JYW820	GNF2	4.124	46.053	185.76	9/4/2018
JYW821	GNF2	4.124	45.990	185.76	9/4/2018
JYW822	GNF2	4.124	46.037	185.76	9/4/2018
JYW823	GNF2	4.124	42.259	185.76	10/3/2016
JYW824	GNF2	4.124	42.780	185.76	10/3/2016
JYW825	GNF2	4.124	50.880	185.76	9/4/2018
JYW826	GNF2	4.124	42.158	185.76	10/3/2016
JYW827	GNF2	4.124	43.222	185.76	10/3/2016
JYW828	GNF2	4.124	43.554	185.76	10/3/2016
JYW829	GNF2	4.124	43.551	185.76	10/3/2016
JYW830	GNF2	4.124	43.263	185.76	10/3/2016
JYW831	GNF2	4.124	48.177	185.76	9/4/2018
JYW832	GNF2	4.124	47.921	185.76	9/4/2018
JYW833	GNF2	4.124	47.876	185.76	9/4/2018
JYW834	GNF2	4.124	48.142	185.76	9/4/2018
JYW835	GNF2	4.124	47.788	185.76	9/4/2018
JYW836	GNF2	4.124	47.813	185.76	9/4/2018
JYW837	GNF2	4.124	47.794	185.76	9/4/2018
JYW838	GNF2	4.124	47.761	185.76	9/4/2018

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYW839	GNF2	4.124	35.748	185.76	10/3/2016
JYW840	GNF2	4.124	40.940	185.76	10/3/2016
JYW841	GNF2	4.124	40.876	185.76	10/3/2016
JYW842	GNF2	4.124	35.647	185.76	10/3/2016
JYW843	GNF2	4.124	41.116	185.76	10/3/2016
JYW844	GNF2	4.124	41.119	185.76	10/3/2016
JYW845	GNF2	4.124	41.098	185.76	10/3/2016
JYW846	GNF2	4.124	41.105	185.76	10/3/2016
JYW847	GNF2	4.124	50.175	185.76	9/4/2018
JYW848	GNF2	4.124	50.130	185.76	9/4/2018
JYW849	GNF2	4.124	50.100	185.76	9/4/2018
JYW850	GNF2	4.124	50.131	185.76	9/4/2018
JYW851	GNF2	4.124	48.981	185.76	9/4/2018
JYW852	GNF2	4.124	49.959	185.76	9/4/2018
JYW853	GNF2	4.124	49.869	185.76	9/4/2018
JYW854	GNF2	4.124	48.935	185.76	9/4/2018
JYW855	GNF2	4.124	43.873	185.76	10/3/2016
JYW856	GNF2	4.124	43.872	185.76	10/3/2016
JYW857	GNF2	4.124	43.797	185.76	10/3/2016
JYW858	GNF2	4.124	43.841	185.76	10/3/2016
JYW859	GNF2	4.124	42.445	185.76	10/3/2016
JYW860	GNF2	4.124	43.054	185.76	10/3/2016
JYW861	GNF2	4.124	42.991	185.76	10/3/2016
JYW862	GNF2	4.124	42.441	185.76	10/3/2016
JYW863	GNF2	4.237	41.311	185.78	9/4/2018
JYW864	GNF2	4.237	41.264	185.78	9/4/2018
JYW865	GNF2	4.237	41.286	185.78	9/4/2018
JYW866	GNF2	4.237	41.295	185.78	9/4/2018
JYW867	GNF2	4.237	46.586	185.78	9/4/2018
JYW868	GNF2	4.237	47.158	185.78	9/4/2018
JYW869	GNF2	4.237	47.118	185.78	9/4/2018
JYW870	GNF2	4.237	46.511	185.78	9/4/2018
JYW871	GNF2	4.237	42.190	185.78	10/3/2016
JYW872	GNF2	4.237	41.909	185.78	10/3/2016
JYW873	GNF2	4.237	41.844	185.78	10/3/2016
JYW874	GNF2	4.237	42.151	185.78	10/3/2016
JYW875	GNF2	4.237	42.784	185.78	10/3/2016

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
JYW876	GNF2	4.237	41.941	185.78	10/3/2016
JYW877	GNF2	4.237	41.869	185.78	10/3/2016
JYW878	GNF2	4.237	42.779	185.78	10/3/2016
JYW879	GNF2	4.393	43.769	186.38	9/4/2018
JYW880	GNF2	4.393	44.168	186.38	9/4/2018
JYW881	GNF2	4.393	44.056	186.38	9/4/2018
JYW882	GNF2	4.393	43.653	186.38	9/4/2018
JYW883	GNF2	4.393	44.441	186.38	9/4/2018
JYW884	GNF2	4.393	44.417	186.38	9/4/2018
JYW885	GNF2	4.393	44.404	186.38	9/4/2018
JYW886	GNF2	4.393	44.453	186.38	9/4/2018
JYW887	GNF2	4.393	44.660	186.38	9/4/2018
JYW888	GNF2	4.393	44.654	186.38	9/4/2018
JYW889	GNF2	4.393	44.594	186.38	9/4/2018
JYW890	GNF2	4.393	44.609	186.38	9/4/2018
JYW891	GNF2	4.393	33.061	186.38	10/3/2016
JYW892	GNF2	4.393	44.286	186.38	9/4/2018
JYW893	GNF2	4.393	44.444	186.38	9/4/2018
JYW894	GNF2	4.393	42.198	186.38	9/4/2018
LJ3652	GE4	2.740	28.767	183.50	2/12/1983
LJ3655	GE4	2.740	25.192	183.50	2/12/1983
LJ3662	GE4	2.740	25.621	183.50	3/20/1981
LJ3666	GE4	2.740	26.467	183.50	2/12/1983
LJ3667	GE4	2.740	26.407	183.50	2/12/1983
LJ3668	GE4	2.740	26.464	183.50	2/12/1983
LJ3669	GE4	2.740	26.465	183.50	2/12/1983
LJ3680	GE4	2.740	25.277	183.50	2/12/1983
LJ3681	GE4	2.740	25.253	183.50	2/12/1983
LJ3687	GE4	2.740	26.811	183.50	2/12/1983
LJ3696	GE4	2.740	27.017	183.50	2/12/1983
LJ3697	GE4	2.740	23.976	183.50	3/20/1981
LJ3698	GE4	2.740	26.872	183.50	2/12/1983
LJ3699	GE4	2.740	26.964	183.50	2/12/1983
LJ3711	GE4	2.740	24.713	183.50	3/20/1981
LJ3717	GE4	2.740	24.884	183.50	3/20/1981
LJ3720	GE4	2.740	27.041	183.50	2/12/1983
LJ3723	GE4	2.740	26.963	183.50	2/12/1983

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
LJ3729	GE4	2.740	26.951	183.50	2/12/1983
LJ3734	GE4	2.740	27.026	183.50	2/12/1983
LJ8738	GE4	2.740	14.942	183.50	3/20/1981
LJ8761	GE4	2.740	32.191	183.50	2/2/1985
LJ8782	GE4	2.740	27.988	183.50	2/2/1985
LJL749	GE6	2.890	29.216	182.21	2/2/1985
LJL750	GE6	2.890	27.974	182.21	3/12/1987
LJL752	GE6	2.890	29.309	182.21	2/2/1985
LJL768	GE6	2.890	29.561	182.21	2/2/1985
LJL777	GE6	2.890	27.919	182.21	3/12/1987
LJL779	GE6	2.890	27.969	182.21	3/12/1987
LJL793	GE6	2.890	28.614	182.21	3/12/1987
LJL802	GE6	2.890	29.800	182.21	2/2/1985
LJL812	GE6	2.890	29.551	182.21	2/2/1985
LJL815	GE6	2.890	29.238	182.21	2/2/1985
LJL816	GE6	2.890	29.557	182.21	2/2/1985
LJL817	GE6	2.890	29.277	182.21	2/2/1985
LJL831	GE6	2.890	29.144	182.21	2/2/1985
LJL832	GE6	2.890	29.804	182.21	2/2/1985
LY2144	GE6	2.990	30.778	181.99	9/29/1988
LY2146	GE6	2.990	31.424	181.99	9/29/1988
LY2151	GE6	2.990	30.093	181.99	9/29/1988
LY2152	GE6	2.990	27.916	181.99	9/29/1988
LY2155	GE6	2.990	27.946	181.99	9/29/1988
LY2158	GE6	2.990	27.904	181.99	9/29/1988
LY2161	GE6	2.990	30.107	181.99	9/29/1988
LY2166	GE6	2.990	28.604	181.99	9/29/1988
LY2167	GE6	2.990	28.612	181.99	9/29/1988
LY2169	GE6	2.990	29.620	181.99	9/29/1988
LY2171	GE6	2.990	27.761	181.99	9/29/1988
LY2172	GE6	2.990	30.116	181.99	9/29/1988
LY2173	GE6	2.990	28.400	181.99	9/29/1988
LY2174	GE6	2.990	27.744	181.99	9/29/1988
LY2179	GE6	2.990	29.595	181.99	9/29/1988
LY2187	GE6	2.840	28.797	181.98	9/29/1988
LY2188	GE6	2.840	30.339	181.98	9/29/1988
LY2189	GE6	2.840	28.292	181.98	9/29/1988

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
LY2194	GE6	2.840	28.398	181.98	9/29/1988
LY2198	GE6	2.840	28.392	181.98	9/29/1988
LY2204	GE6	2.840	28.810	181.98	9/29/1988
LY2209	GE6	2.840	28.267	181.98	9/29/1988
LY2212	GE6	2.840	28.782	181.98	9/29/1988
LY2217	GE6	2.840	28.832	181.98	9/29/1988
LY2219	GE6	2.840	28.405	181.98	9/29/1988
LY2221	GE6	2.840	27.763	181.98	9/29/1988
LY2224	GE6	2.840	27.815	181.98	9/29/1988
LY2225	GE6	2.840	28.840	181.98	9/29/1988
LY2226	GE6	2.840	27.838	181.98	9/29/1988
LY2231	GE6	2.840	27.928	181.98	9/29/1988
LY2233	GE6	2.840	28.860	181.98	9/29/1988
LY2234	GE6	2.840	28.778	181.98	9/29/1988
LY2236	GE6	2.840	28.717	181.98	9/29/1988
LY2241	GE6	2.840	27.829	181.98	9/29/1988
LY2244	GE6	2.840	28.239	181.98	9/29/1988
LY2247	GE6	2.840	30.448	181.98	9/29/1988
LY2253	GE6	2.840	28.034	181.98	9/29/1988
LY2255	GE6	2.840	28.664	181.98	9/29/1988
LY2257	GE6	2.840	27.903	181.98	9/29/1988
LY2263	GE6	2.840	27.861	181.98	9/29/1988
LY2267	GE6	2.840	28.051	181.98	9/29/1988
LY9211	GE6	2.990	30.391	181.99	2/27/1992
LY9216	GE6	2.990	29.221	181.99	6/28/1990
LY9226	GE6	2.990	29.728	181.99	6/28/1990
LY9227	GE6	2.990	29.725	181.99	6/28/1990
LY9229	GE6	2.990	30.401	181.99	2/27/1992
LY9233	GE6	2.990	29.059	181.99	6/28/1990
LY9239	GE6	2.990	29.961	181.99	6/28/1990
LY9244	GE6	2.990	28.970	181.99	6/28/1990
LY9247	GE6	2.990	29.372	181.99	6/28/1990
LY9253	GE6	2.990	29.976	181.99	6/28/1990
LY9254	GE6	2.990	29.782	181.99	6/28/1990
LY9255	GE6	2.990	29.778	181.99	6/28/1990
LY9257	GE6	2.990	29.719	181.99	6/28/1990
LY9258	GE6	2.990	29.712	181.99	6/28/1990

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
LY9259	GE6	2.990	29.779	181.99	6/28/1990
LY9262	GE6	2.990	29.046	181.99	6/28/1990
LY9263	GE6	2.990	29.762	181.99	6/28/1990
LY9265	GE6	2.990	29.975	181.99	6/28/1990
LY9266	GE6	2.990	29.047	181.99	6/28/1990
LY9267	GE6	2.990	29.366	181.99	6/28/1990
LY9271	GE6	3.010	28.932	182.13	6/28/1990
LY9284	GE6	3.010	29.324	182.13	6/28/1990
LY9287	GE6	3.010	29.307	182.13	6/28/1990
LY9295	GE6	3.010	29.337	182.13	6/28/1990
LY9297	GE6	3.010	28.919	182.13	6/28/1990
LY9299	GE6	3.010	28.992	182.13	6/28/1990
LY9305	GE6	3.010	28.972	182.13	6/28/1990
LY9306	GE6	3.010	29.004	182.13	6/28/1990
LY9309	GE6	3.010	29.335	182.13	6/28/1990
LY9317	GE6	3.010	29.346	182.13	6/28/1990
LYA476	LTA (8x8-4)	3.111	39.418	165.00	6/28/1990
LYA477	LTA (8x8-4)	3.111	39.835	165.00	6/28/1990
LYA478	LTA (8x8-4)	3.166	39.732	165.00	6/28/1990
LYA479	LTA (8x8-4)	3.166	39.581	165.00	6/28/1990
LYA480	LTA (8x8-2)	2.987	33.227	183.70	2/27/1992
LYG105	GE8	2.990	35.779	177.85	2/27/1992
LYG106	GE8	2.990	35.908	177.85	2/27/1992
LYG108	GE8	2.990	36.273	177.85	2/27/1992
LYG109	GE8	2.990	29.789	177.85	2/27/1992
LYG112	GE8	2.990	30.901	177.85	2/27/1992
LYG113	GE8	2.990	30.913	177.85	2/27/1992
LYG114	GE8	2.990	35.403	177.85	2/27/1992
LYG115	GE8	2.990	35.820	177.85	2/27/1992
LYG119	GE8	2.990	36.257	177.85	2/27/1992
LYG120	GE8	2.990	30.775	177.85	2/27/1992
LYG121	GE8	2.990	35.408	177.85	2/27/1992
LYG125	GE8	2.990	30.864	177.85	2/27/1992
LYG128	GE8	2.990	35.402	177.85	2/27/1992
LYG130	GE8	2.990	29.775	177.85	2/27/1992
LYG131	GE8	2.990	36.270	177.85	2/27/1992
LYG134	GE8	2.990	30.912	177.85	2/27/1992

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
LYG135	GE8	2.990	35.831	177.85	2/27/1992
LYG136	GE8	2.990	35.920	177.85	2/27/1992
LYG142	GE8	2.990	30.828	177.85	2/27/1992
LYG144	GE8	2.990	35.896	177.85	2/27/1992
LYG145	GE8	2.990	36.251	177.85	2/27/1992
LYG148	GE8	2.990	35.404	177.85	2/27/1992
LYG151	GE8	2.990	35.387	177.85	2/27/1992
LYG152	GE8	2.990	35.774	177.85	2/27/1992
LYG153	GE8	2.990	35.821	177.85	2/27/1992
LYG155	GE8	2.990	35.404	177.85	2/27/1992
LYG156	GE8	2.990	29.766	177.85	2/27/1992
LYG159	GE8	2.990	35.784	177.85	2/27/1992
LYG160	GE8	2.990	35.403	177.85	2/27/1992
LYG166	GE8	2.990	35.389	177.85	2/27/1992
LYG167	GE8	2.990	29.776	177.85	2/27/1992
LYG168	GE8	2.990	30.824	177.85	2/27/1992
LYG175	GE8	2.990	35.821	177.85	2/27/1992
LYG179	GE8	2.990	30.834	177.85	2/27/1992
LYG182	GE8	2.990	35.817	177.85	2/27/1992
LYG183	GE8	2.990	35.850	177.85	2/27/1992
LYG184	GE8	2.990	35.776	177.85	2/27/1992
LYG185	GE8	2.990	35.826	177.85	2/27/1992
LYG188	GE8	2.990	35.909	177.85	2/27/1992
LYG193	GE8	3.030	30.762	178.35	2/27/1992
LYG194	GE8	3.030	35.322	178.35	2/27/1992
LYG195	GE8	3.030	35.012	178.35	2/27/1992
LYG196	GE8	3.030	30.760	178.35	2/27/1992
LYG200	GE8	3.030	31.021	178.35	2/27/1992
LYG210	GE8	3.030	29.832	178.35	2/27/1992
LYG212	GE8	3.030	30.771	178.35	2/27/1992
LYG213	GE8	3.030	31.031	178.35	2/27/1992
LYG214	GE8	3.030	35.018	178.35	2/27/1992
LYG216	GE8	3.030	29.836	178.35	2/27/1992
LYG217	GE8	3.030	35.307	178.35	2/27/1992
LYG219	GE8	3.030	35.315	178.35	2/27/1992
LYG221	GE8	3.030	35.306	178.35	2/27/1992
LYG222	GE8	3.030	35.313	178.35	2/27/1992

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
LYG223	GE8	3.030	31.060	178.35	2/27/1992
LYG224	GE8	3.030	31.030	178.35	2/27/1992
LYG226	GE8	3.030	35.349	178.35	2/27/1992
LYG228	GE8	3.030	35.316	178.35	2/27/1992
LYG230	GE8	3.030	29.804	178.35	2/27/1992
LYG231	GE8	3.030	29.825	178.35	2/27/1992
LYG232	GE8	3.030	30.802	178.35	2/27/1992
LYM001	GE8	3.030	30.672	178.35	7/29/1993
LYM004	GE8	3.030	31.277	178.35	7/29/1993
LYM007	GE8	3.030	37.903	178.35	7/29/1993
LYM010	GE8	3.030	37.916	178.35	7/29/1993
LYM015	GE8	3.030	31.481	178.35	7/29/1993
LYM020	GE8	3.030	31.270	178.35	7/29/1993
LYM026	GE8	3.030	31.248	178.35	7/29/1993
LYM028	GE8	3.030	30.656	178.35	7/29/1993
LYM030	GE8	3.030	37.156	178.35	7/29/1993
LYM031	GE8	3.030	37.910	178.35	7/29/1993
LYM034	GE8	3.030	30.651	178.35	7/29/1993
LYM037	GE8	3.030	37.048	178.35	7/29/1993
LYM038	GE8	3.030	34.239	178.35	7/29/1993
LYM039	GE8	3.030	37.912	178.35	7/29/1993
LYM040	GE8	3.030	37.146	178.35	7/29/1993
LYM041	GE8	3.030	32.247	178.35	7/29/1993
LYM043	GE8	3.030	37.151	178.35	7/29/1993
LYM044	GE8	3.030	30.673	178.35	7/29/1993
LYM046	GE8	3.030	37.035	178.35	7/29/1993
LYM047	GE8	3.030	37.038	178.35	7/29/1993
LYM049	GE8	3.030	31.475	178.35	7/29/1993
LYM050	GE8	3.030	31.463	178.35	7/29/1993
LYM051	GE8	3.030	37.055	178.35	7/29/1993
LYM055	GE8	3.030	37.134	178.35	7/29/1993
LYM057	GE8	3.240	34.950	177.21	7/29/1993
LYM058	GE8	3.240	37.482	177.21	7/29/1993
LYM059	GE8	3.240	35.462	177.21	2/24/1995
LYM060	GE8	3.240	37.431	177.21	7/29/1993
LYM061	GE8	3.240	37.712	177.21	7/29/1993
LYM062	GE8	3.240	36.771	177.21	7/29/1993

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
LYM063	GE8	3.240	34.669	177.21	7/29/1993
LYM064	GE8	3.240	34.857	177.21	2/24/1995
LYM065	GE8	3.240	36.818	177.21	7/29/1993
LYM066	GE8	3.240	36.290	177.21	2/24/1995
LYM067	GE8	3.240	37.438	177.21	7/29/1993
LYM068	GE8	3.240	36.776	177.21	7/29/1993
LYM070	GE8	3.240	34.679	177.21	7/29/1993
LYM071	GE8	3.240	35.026	177.21	2/24/1995
LYM072	GE8	3.240	37.602	177.21	7/29/1993
LYM073	GE8	3.240	36.819	177.21	7/29/1993
LYM074	GE8	3.240	36.809	177.21	7/29/1993
LYM075	GE8	3.240	37.602	177.21	7/29/1993
LYM077	GE8	3.240	34.883	177.21	7/29/1993
LYM078	GE8	3.240	36.364	177.21	2/24/1995
LYM079	GE8	3.240	37.433	177.21	7/29/1993
LYM080	GE8	3.240	36.363	177.21	2/24/1995
LYM081	GE8	3.240	37.378	177.21	7/29/1993
LYM082	GE8	3.240	36.300	177.21	2/24/1995
LYM083	GE8	3.240	36.776	177.21	7/29/1993
LYM085	GE8	3.240	37.692	177.21	7/29/1993
LYM088	GE8	3.240	36.752	177.21	7/29/1993
LYM089	GE8	3.240	37.404	177.21	7/29/1993
LYM090	GE8	3.240	35.025	177.21	2/24/1995
LYM091	GE8	3.240	35.423	177.21	2/24/1995
LYM092	GE8	3.240	36.284	177.21	2/24/1995
LYM094	GE8	3.240	34.874	177.21	7/29/1993
LYM095	GE8	3.240	37.439	177.21	7/29/1993
LYM098	GE8	3.240	35.403	177.21	2/24/1995
LYM100	GE8	3.240	37.670	177.21	7/29/1993
LYM102	GE8	3.240	35.442	177.21	2/24/1995
LYM103	GE8	3.240	36.335	177.21	2/24/1995
LYM104	GE8	3.240	34.922	177.21	7/29/1993
LYM105	GE8	3.240	34.996	177.21	2/24/1995
LYM106	GE8	3.240	37.615	177.21	7/29/1993
LYM107	GE8	3.240	37.401	177.21	7/29/1993
LYM108	GE8	3.240	36.329	177.21	2/24/1995
LYM111	GE8	3.240	34.888	177.21	2/24/1995

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
LYM116	GE8	3.240	36.809	177.21	7/29/1993
LYM117	GE8	3.240	37.602	177.21	7/29/1993
LYM118	GE8	3.240	36.339	177.21	2/24/1995
LYM119	GE8	3.240	37.641	177.21	7/29/1993
LYV001	GE10	3.210	37.647	177.82	10/11/1996
LYV002	GE10	3.210	36.256	177.82	2/24/1995
LYV005	GE10	3.210	37.858	177.82	2/24/1995
LYV006	GE10	3.210	33.781	177.82	2/24/1995
LYV010	GE10	3.210	33.714	177.82	2/24/1995
LYV012	GE10	3.210	37.692	177.82	2/24/1995
LYV014	GE10	3.210	34.927	177.82	2/24/1995
LYV016	GE10	3.210	36.283	177.82	2/24/1995
LYV017	GE10	3.210	34.872	177.82	2/24/1995
LYV019	GE10	3.210	37.389	177.82	2/24/1995
LYV021	GE10	3.210	36.320	177.82	2/24/1995
LYV022	GE10	3.210	33.722	177.82	2/24/1995
LYV024	GE10	3.210	37.692	177.82	2/24/1995
LYV026	GE10	3.210	37.688	177.82	10/11/1996
LYV027	GE10	3.210	37.382	177.82	2/24/1995
LYV031	GE10	3.210	37.403	177.82	2/24/1995
LYV032	GE10	3.210	37.892	177.82	2/24/1995
LYV033	GE10	3.210	36.267	177.82	2/24/1995
LYV034	GE10	3.210	34.904	177.82	2/24/1995
LYV035	GE10	3.210	37.396	177.82	2/24/1995
LYV038	GE10	3.210	37.762	177.82	2/24/1995
LYV039	GE10	3.210	37.703	177.82	2/24/1995
LYV041	GE10	3.170	33.891	178.63	2/24/1995
LYV042	GE10	3.170	39.718	178.63	2/24/1995
LYV046	GE10	3.170	35.223	178.63	2/24/1995
LYV047	GE10	3.170	41.080	178.63	2/24/1995
LYV048	GE10	3.170	39.790	178.63	2/24/1995
LYV049	GE10	3.170	40.573	178.63	2/24/1995
LYV050	GE10	3.170	34.379	178.63	2/24/1995
LYV051	GE10	3.170	40.565	178.63	2/24/1995
LYV052	GE10	3.170	38.039	178.63	2/24/1995
LYV055	GE10	3.170	37.828	178.63	10/11/1996
LYV056	GE10	3.170	37.821	178.63	10/11/1996

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
LYV057	GE10	3.170	38.045	178.63	2/24/1995
LYV061	GE10	3.170	34.412	178.63	2/24/1995
LYV062	GE10	3.170	41.037	178.63	2/24/1995
LYV063	GE10	3.170	34.373	178.63	2/24/1995
LYV064	GE10	3.170	40.565	178.63	2/24/1995
LYV065	GE10	3.170	35.103	178.63	2/24/1995
LYV068	GE10	3.170	39.710	178.63	2/24/1995
LYV069	GE10	3.170	33.843	178.63	2/24/1995
LYV070	GE10	3.170	34.438	178.63	2/24/1995
LYV072	GE10	3.170	39.664	178.63	2/24/1995
LYV073	GE10	3.170	35.913	178.63	2/24/1995
LYV075	GE10	3.170	34.286	178.63	2/24/1995
LYV076	GE10	3.170	36.021	178.63	2/24/1995
LYV078	GE10	3.170	41.085	178.63	2/24/1995
LYV082	GE10	3.170	34.329	178.63	2/24/1995
LYV083	GE10	3.170	39.711	178.63	2/24/1995
LYV085	GE10	3.170	34.410	178.63	2/24/1995
LYV086	GE10	3.170	37.793	178.63	10/11/1996
LYV087	GE10	3.170	39.720	178.63	2/24/1995
LYV088	GE10	3.170	37.815	178.63	10/11/1996
LYV089	GE10	3.170	34.358	178.63	2/24/1995
LYV090	GE10	3.170	34.334	178.63	2/24/1995
LYV091	GE10	3.170	35.157	178.63	2/24/1995
LYV092	GE10	3.170	41.067	178.63	2/24/1995
LYV096	GE10	3.170	39.776	178.63	2/24/1995
LYV097	GE10	3.170	35.964	178.63	2/24/1995
LYV100	GE10	3.170	34.427	178.63	2/24/1995
LYV101	GE10	3.170	39.713	178.63	2/24/1995
LYV102	GE10	3.170	40.592	178.63	2/24/1995
LYV103	GE10	3.170	35.988	178.63	2/24/1995
LYV104	GE10	3.170	33.886	178.63	2/24/1995
YJ0689	GE10	3.210	35.141	177.82	10/11/1996
YJ0690	GE10	3.210	33.823	177.82	10/11/1996
YJ0691	GE10	3.210	35.167	177.82	10/11/1996
YJ0694	GE10	3.210	40.079	177.82	10/11/1996
YJ0696	GE10	3.210	33.892	177.82	10/11/1996
YJ0697	GE10	3.210	33.887	177.82	10/11/1996

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Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJ0699	GE10	3.210	32.863	177.82	10/11/1996
YJ0700	GE10	3.210	32.858	177.82	10/11/1996
YJ0701	GE10	3.210	35.235	177.82	10/11/1996
YJ0703	GE10	3.210	32.862	177.82	10/11/1996
YJ0704	GE10	3.210	35.125	177.82	10/11/1996
YJ0706	GE10	3.210	40.062	177.82	10/11/1996
YJ0707	GE10	3.210	40.063	177.82	10/11/1996
YJ0709	GE10	3.210	32.844	177.82	10/11/1996
YJ0710	GE10	3.210	35.134	177.82	10/11/1996
YJ0711	GE10	3.210	40.067	177.82	10/11/1996
YJ0712	GE10	3.210	35.276	177.82	10/11/1996
YJ0714	GE10	3.160	34.973	178.35	10/11/1996
YJ0715	GE10	3.160	39.057	178.35	10/11/1996
YJ0717	GE10	3.160	34.638	178.35	10/11/1996
YJ0719	GE10	3.160	34.908	178.35	10/11/1996
YJ0720	GE10	3.160	34.081	178.35	10/11/1996
YJ0721	GE10	3.160	38.713	178.35	10/11/1996
YJ0722	GE10	3.160	40.019	178.35	10/11/1996
YJ0724	GE10	3.160	38.847	178.35	10/11/1996
YJ0725	GE10	3.160	37.116	178.35	10/11/1996
YJ0726	GE10	3.160	39.076	178.35	10/11/1996
YJ0730	GE10	3.160	40.040	178.35	10/11/1996
YJ0731	GE10	3.160	32.474	178.35	10/11/1996
YJ0732	GE10	3.160	32.478	178.35	10/11/1996
YJ0733	GE10	3.160	34.625	178.35	10/11/1996
YJ0736	GE10	3.160	34.636	178.35	10/11/1996
YJ0738	GE10	3.160	33.921	178.35	10/11/1996
YJ0740	GE10	3.160	35.586	178.35	10/11/1996
YJ0741	GE10	3.160	34.915	178.35	10/11/1996
YJ0742	GE10	3.160	34.573	178.35	10/11/1996
YJ0743	GE10	3.160	32.482	178.35	10/11/1996
YJ0744	GE10	3.160	34.579	178.35	10/11/1996
YJ0746	GE10	3.160	38.875	178.35	10/11/1996
YJ0747	GE10	3.160	38.734	178.35	10/11/1996
YJ0748	GE10	3.160	36.862	178.35	10/11/1996
YJ0749	GE10	3.160	32.089	178.35	10/11/1996
YJ0751	GE10	3.160	38.455	178.35	10/11/1996

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJ0752	GE10	3.160	38.448	178.35	10/11/1996
YJ0753	GE10	3.160	35.003	178.35	10/11/1996
YJ0754	GE10	3.160	35.373	178.35	10/11/1996
YJ0757	GE10	3.160	32.130	178.35	10/11/1996
YJ0758	GE10	3.160	32.132	178.35	10/11/1996
YJ0759	GE10	3.160	34.663	178.35	10/11/1996
YJ0760	GE10	3.160	34.615	178.35	10/11/1996
YJ0761	GE10	3.160	38.882	178.35	10/11/1996
YJ0762	GE10	3.160	37.141	178.35	10/11/1996
YJ0763	GE10	3.160	37.145	178.35	10/11/1996
YJ0764	GE10	3.160	36.863	178.35	10/11/1996
YJ0765	GE10	3.160	38.854	178.35	10/11/1996
YJ0766	GE10	3.160	38.756	178.35	10/11/1996
YJ0767	GE10	3.160	33.932	178.35	10/11/1996
YJ0768	GE10	3.160	34.996	178.35	10/11/1996
YJ0769	GE10	3.160	36.847	178.35	10/11/1996
YJ0770	GE10	3.160	38.729	178.35	10/11/1996
YJ0771	GE10	3.160	40.062	178.35	10/11/1996
YJ0772	GE10	3.160	34.583	178.35	10/11/1996
YJ0773	GE10	3.160	32.551	178.35	10/11/1996
YJ0775	GE10	3.160	34.069	178.35	10/11/1996
YJ0777	GE10	3.160	37.991	178.35	10/11/1996
YJ0778	GE10	3.160	34.879	178.35	10/11/1996
YJ0788	GE10	3.160	33.921	178.35	10/11/1996
YJ0789	GE10	3.160	38.056	178.35	10/11/1996
YJ0790	GE10	3.160	38.064	178.35	10/11/1996
YJ0791	GE10	3.160	39.093	178.35	10/11/1996
YJ0792	GE10	3.160	39.114	178.35	10/11/1996
YJ5363	GE10	3.270	37.472	178.04	4/3/1998
YJ5365	GE10	3.270	37.448	178.04	4/3/1998
YJ5368	GE10	3.270	33.624	178.04	4/3/1998
YJ5370	GE10	3.270	38.455	178.04	4/3/1998
YJ5371	GE10	3.270	38.464	178.04	4/3/1998
YJ5374	GE10	3.270	38.573	178.04	4/3/1998
YJ5375	GE10	3.270	38.562	178.04	4/3/1998
YJ5377	GE10	3.270	38.575	178.04	4/3/1998
YJ5378	GE10	3.270	38.364	178.04	4/3/1998

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Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJ5380	GE10	3.270	38.362	178.04	4/3/1998
YJ5381	GE10	3.270	38.339	178.04	4/3/1998
YJ5382	GE10	3.270	34.295	178.04	4/3/1998
YJ5386	GE10	3.270	34.015	178.04	4/3/1998
YJ5387	GE10	3.270	34.013	178.04	4/3/1998
YJ5389	GE10	3.270	34.017	178.04	4/3/1998
YJ5390	GE10	3.270	38.166	178.04	4/3/1998
YJ5391	GE10	3.270	38.170	178.04	4/3/1998
YJ5392	GE10	3.270	38.174	178.04	4/3/1998
YJ5393	GE10	3.270	38.153	178.04	4/3/1998
YJ5396	GE10	3.270	34.554	178.04	4/3/1998
YJ5397	GE10	3.270	34.542	178.04	4/3/1998
YJ5398	GE10	3.270	34.701	178.04	4/3/1998
YJ5399	GE10	3.270	34.689	178.04	4/3/1998
YJ5401	GE10	3.270	34.685	178.04	4/3/1998
YJ5403	GE10	3.270	35.292	178.04	4/3/1998
YJ5405	GE10	3.270	35.303	178.04	4/3/1998
YJ5406	GE10	3.270	35.169	178.04	4/3/1998
YJ5408	GE10	3.270	35.174	178.04	4/3/1998
YJ5409	GE10	3.270	35.173	178.04	4/3/1998
YJ5413	GE10	3.270	37.000	178.04	4/3/1998
YJ5414	GE10	3.270	35.297	178.04	4/3/1998
YJ5415	GE10	3.270	35.287	178.04	4/3/1998
YJ5416	GE10	3.270	35.300	178.04	4/3/1998
YJ5417	GE10	3.270	35.295	178.04	4/3/1998
YJ5425	GE10	3.270	34.658	178.04	4/3/1998
YJ5426	GE10	3.270	38.455	178.04	4/3/1998
YJ5427	GE10	3.270	38.476	178.04	4/3/1998
YJ5428	GE10	3.270	38.482	178.04	4/3/1998
YJ5430	GE10	3.270	33.878	178.04	4/3/1998
YJ5431	GE10	3.270	33.887	178.04	4/3/1998
YJ5434	GE10	3.270	37.040	177.24	4/3/1998
YJ5435	GE10	3.270	37.030	177.24	4/3/1998
YJ5438	GE10	3.270	37.190	177.24	4/3/1998
YJ5439	GE10	3.270	37.191	177.24	4/3/1998
YJ5441	GE10	3.270	37.183	177.24	4/3/1998
YJ5443	GE10	3.270	33.698	177.24	4/3/1998

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJ5445	GE10	3.270	33.721	177.24	4/3/1998
YJ5447	GE10	3.270	31.173	177.24	10/11/1996
YJ5448	GE10	3.270	31.169	177.24	10/11/1996
YJ5455	GE10	3.270	31.231	177.24	10/11/1996
YJ5457	GE10	3.270	31.237	177.24	10/11/1996
YJ5458	GE10	3.270	36.609	177.24	4/3/1998
YJ5460	GE10	3.270	36.612	177.24	4/3/1998
YJ5461	GE10	3.270	36.607	177.24	4/3/1998
YJ5462	GE10	3.270	35.626	177.24	4/3/1998
YJ5465	GE10	3.270	35.612	177.24	4/3/1998
YJ5466	GE10	3.270	35.612	177.24	4/3/1998
YJ5469	GE10	3.270	35.620	177.24	4/3/1998
YJ5471	GE10	3.270	35.120	177.24	4/3/1998
YJ5474	GE10	3.270	35.985	177.24	4/3/1998
YJ5475	GE10	3.270	35.994	177.24	4/3/1998
YJ5477	GE10	3.270	35.994	177.24	4/3/1998
YJ5478	GE10	3.270	36.192	177.24	4/3/1998
YJ5479	GE10	3.270	36.204	177.24	4/3/1998
YJ5481	GE10	3.270	36.194	177.24	4/3/1998
YJ5482	GE10	3.270	34.323	177.24	4/3/1998
YJ5488	GE10	3.270	35.283	177.24	4/3/1998
YJ5489	GE10	3.270	35.285	177.24	4/3/1998
YJ9779	GE10	3.270	40.849	178.64	10/22/1999
YJ9780	GE10	3.270	40.846	178.64	10/22/1999
YJ9781	GE10	3.270	40.844	178.64	10/22/1999
YJ9782	GE10	3.270	40.852	178.64	10/22/1999
YJ9784	GE10	3.270	37.015	178.64	10/22/1999
YJ9785	GE10	3.270	36.999	178.64	10/22/1999
YJ9788	GE10	3.270	32.948	178.64	10/22/1999
YJ9793	GE10	3.270	32.853	178.64	10/22/1999
YJ9795	GE10	3.270	35.182	178.64	10/22/1999
YJ9796	GE10	3.270	35.197	178.64	10/22/1999
YJ9799	GE10	3.270	36.216	178.64	10/22/1999
YJ9800	GE10	3.270	36.223	178.64	10/22/1999
YJ9814	GE10	3.270	34.977	178.64	10/22/1999
YJ9815	GE10	3.270	40.668	178.64	10/22/1999
YJ9816	GE10	3.270	40.663	178.64	10/22/1999

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJ9817	GE10	3.270	40.665	178.64	10/22/1999
YJ9818	GE10	3.270	40.689	178.64	10/22/1999
YJ9819	GE10	3.270	38.268	178.16	10/22/1999
YJ9820	GE10	3.270	38.290	178.16	10/22/1999
YJ9821	GE10	3.270	38.288	178.16	10/22/1999
YJ9822	GE10	3.270	38.303	178.16	10/22/1999
YJ9824	GE10	3.270	35.805	178.16	10/22/1999
YJ9828	GE10	3.270	35.235	178.16	10/22/1999
YJ9829	GE10	3.270	35.232	178.16	10/22/1999
YJ9831	GE10	3.270	38.131	178.16	10/22/1999
YJ9832	GE10	3.270	38.139	178.16	10/22/1999
YJ9833	GE10	3.270	38.147	178.16	10/22/1999
YJ9834	GE10	3.270	38.137	178.16	10/22/1999
YJ9847	GE10	3.270	38.570	178.16	10/22/1999
YJ9848	GE10	3.270	38.570	178.16	10/22/1999
YJ9849	GE10	3.270	38.559	178.16	10/22/1999
YJ9850	GE10	3.270	38.564	178.16	10/22/1999
YJ9852	GE10	3.270	37.315	178.16	10/22/1999
YJ9856	GE10	3.270	34.888	178.16	10/22/1999
YJ9859	GE10	3.270	38.326	178.16	10/22/1999
YJ9860	GE10	3.270	38.330	178.16	10/22/1999
YJ9861	GE10	3.270	38.325	178.16	10/22/1999
YJ9862	GE10	3.270	38.336	178.16	10/22/1999
YJ9868	GE10	3.270	35.302	178.16	10/22/1999
YJ9871	GE10	3.270	41.079	178.16	10/22/1999
YJ9872	GE10	3.270	41.085	178.16	10/22/1999
YJ9873	GE10	3.270	41.086	178.16	10/22/1999
YJ9874	GE10	3.270	41.100	178.16	10/22/1999
YJ9879	GE10	3.270	36.290	178.16	10/22/1999
YJ9880	GE10	3.270	36.298	178.16	10/22/1999
YJ9884	GE10	3.270	35.311	178.16	10/22/1999
YJ9888	GE10	3.270	36.429	178.16	10/22/1999
YJ9891	GE10	3.270	38.541	178.16	10/22/1999
YJ9892	GE10	3.270	38.559	178.16	10/22/1999
YJ9893	GE10	3.270	38.539	178.16	10/22/1999
YJ9894	GE10	3.270	38.556	178.16	10/22/1999
YJ9895	GE10	3.270	37.968	178.16	10/22/1999

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJ9896	GE10	3.270	37.965	178.16	10/22/1999
YJ9897	GE10	3.270	37.961	178.16	10/22/1999
YJ9898	GE10	3.270	37.975	178.16	10/22/1999
YJ9902	GE10	3.270	36.248	178.16	10/22/1999
YJ9903	GE10	3.270	40.325	178.16	10/22/1999
YJ9904	GE10	3.270	40.305	178.16	10/22/1999
YJ9905	GE10	3.270	40.293	178.16	10/22/1999
YJ9906	GE10	3.270	40.327	178.16	10/22/1999
YJF254	GE10	3.270	36.525	178.43	4/12/2001
YJF255	GE10	3.270	39.623	178.43	4/12/2001
YJF256	GE10	3.270	39.626	178.43	4/12/2001
YJF259	GE10	3.270	39.537	178.43	4/12/2001
YJF263	GE10	3.270	35.496	178.43	4/12/2001
YJF264	GE10	3.270	39.535	178.43	4/12/2001
YJF269	GE10	3.270	36.698	178.43	4/12/2001
YJF271	GE10	3.270	36.748	178.43	4/12/2001
YJF272	GE10	3.270	36.766	178.43	4/12/2001
YJF274	GE10	3.270	37.042	178.43	4/12/2001
YJF275	GE10	3.270	37.046	178.43	4/12/2001
YJF276	GE10	3.270	35.438	178.43	4/12/2001
YJF280	GE10	3.270	37.611	178.43	4/12/2001
YJF283	GE10	3.270	37.616	178.43	4/12/2001
YJF285	GE10	3.270	35.261	178.43	4/12/2001
YJF286	GE10	3.270	36.677	178.43	4/12/2001
YJF287	GE10	3.270	39.572	178.43	4/12/2001
YJF290	GE10	3.270	34.907	178.43	4/12/2001
YJF291	GE10	3.270	35.780	178.43	4/12/2001
YJF292	GE10	3.270	39.567	178.43	4/12/2001
YJF293	GE10	3.270	39.573	178.43	4/12/2001
YJF295	GE10	3.270	34.902	178.43	4/12/2001
YJF298	GE10	3.270	39.576	178.43	4/12/2001
YJF302	GE10	3.270	37.617	178.43	4/12/2001
YJF305	GE10	3.270	37.641	178.43	4/12/2001
YJF306	GE10	3.270	35.850	178.43	4/12/2001
YJF307	GE10	3.270	35.287	178.43	4/12/2001
YJF309	GE10	3.270	35.417	178.43	4/12/2001
YJF310	GE10	3.270	37.035	178.43	4/12/2001

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJF311	GE10	3.270	37.031	178.43	4/12/2001
YJF314	GE10	3.270	36.736	178.43	4/12/2001
YJF315	GE10	3.270	36.159	178.43	4/12/2001
YJF320	GE10	3.270	36.178	178.43	4/12/2001
YJF321	GE10	3.270	39.533	178.43	4/12/2001
YJF324	GE10	3.270	35.079	178.43	4/12/2001
YJF325	GE10	3.270	35.497	178.43	4/12/2001
YJF326	GE10	3.270	39.510	178.43	4/12/2001
YJF329	GE10	3.270	39.576	178.43	4/12/2001
YJF330	GE10	3.270	39.576	178.43	4/12/2001
YJF333	GE10	3.270	40.471	178.87	4/12/2001
YJF334	GE10	3.270	35.928	178.87	4/12/2001
YJF336	GE10	3.270	40.470	178.87	4/12/2001
YJF338	GE10	3.270	38.343	178.87	4/12/2001
YJF339	GE10	3.270	38.339	178.87	4/12/2001
YJF340	GE10	3.270	35.736	178.87	4/12/2001
YJF341	GE10	3.270	35.164	178.87	4/12/2001
YJF342	GE10	3.270	35.167	178.87	4/12/2001
YJF343	GE10	3.270	40.705	178.87	4/12/2001
YJF344	GE10	3.270	38.640	178.87	4/12/2001
YJF347	GE10	3.270	38.632	178.87	4/12/2001
YJF348	GE10	3.270	40.707	178.87	4/12/2001
YJF350	GE10	3.270	35.182	178.87	4/12/2001
YJF351	GE10	3.270	35.185	178.87	4/12/2001
YJF352	GE10	3.270	36.604	178.87	4/12/2001
YJF355	GE10	3.270	41.474	178.87	4/12/2001
YJF356	GE10	3.270	36.593	178.87	4/12/2001
YJF357	GE10	3.270	40.677	178.87	4/12/2001
YJF358	GE10	3.270	38.634	178.87	4/12/2001
YJF361	GE10	3.270	38.624	178.87	4/12/2001
YJF362	GE10	3.270	40.674	178.87	4/12/2001
YJF364	GE10	3.270	35.145	178.87	4/12/2001
YJF366	GE10	3.270	38.362	178.87	4/12/2001
YJF367	GE10	3.270	38.345	178.87	4/12/2001
YJF369	GE10	3.270	40.486	178.87	4/12/2001
YJF371	GE10	3.270	35.953	178.87	4/12/2001
YJF372	GE10	3.270	34.145	178.87	4/12/2001

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJL397	GE10	3.407	39.330	177.79	3/23/2003
YJL398	GE10	3.407	39.328	177.79	3/23/2003
YJL399	GE10	3.407	39.322	177.79	3/23/2003
YJL400	GE10	3.407	39.326	177.79	3/23/2003
YJL401	GE10	3.407	36.531	177.79	3/23/2003
YJL402	GE10	3.407	36.518	177.79	3/23/2003
YJL403	GE10	3.407	36.524	177.79	3/23/2003
YJL404	GE10	3.407	36.550	177.79	3/23/2003
YJL405	GE10	3.407	34.691	177.79	3/23/2003
YJL406	GE10	3.407	34.673	177.79	3/23/2003
YJL407	GE10	3.407	34.703	177.79	3/23/2003
YJL408	GE10	3.407	34.714	177.79	3/23/2003
YJL409	GE10	3.407	35.773	177.79	3/23/2003
YJL410	GE10	3.407	35.761	177.79	3/23/2003
YJL411	GE10	3.407	35.788	177.79	3/23/2003
YJL412	GE10	3.407	35.785	177.79	3/23/2003
YJL413	GE10	3.407	30.510	177.79	4/12/2001
YJL414	GE10	3.407	30.506	177.79	4/12/2001
YJL415	GE10	3.407	30.488	177.79	4/12/2001
YJL416	GE10	3.407	30.517	177.79	4/12/2001
YJL417	GE10	3.407	34.240	177.79	3/23/2003
YJL418	GE10	3.407	34.263	177.79	3/23/2003
YJL419	GE10	3.407	34.227	177.79	3/23/2003
YJL420	GE10	3.407	34.233	177.79	3/23/2003
YJL421	GE10	3.407	37.248	177.79	3/23/2003
YJL422	GE10	3.407	37.236	177.79	3/23/2003
YJL423	GE10	3.407	37.261	177.79	3/23/2003
YJL424	GE10	3.407	37.263	177.79	3/23/2003
YJL425	GE10	3.407	36.396	177.79	3/23/2003
YJL426	GE10	3.407	36.421	177.79	3/23/2003
YJL427	GE10	3.407	36.374	177.79	3/23/2003
YJL428	GE10	3.407	36.381	177.79	3/23/2003
YJL429	GE10	3.407	35.082	177.79	3/23/2003
YJL430	GE10	3.407	35.090	177.79	3/23/2003
YJL431	GE10	3.407	35.076	177.79	3/23/2003
YJL432	GE10	3.407	35.070	177.79	3/23/2003
YJL433	GE10	3.407	34.442	177.79	3/23/2003

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJL434	GE10	3.407	34.434	177.79	3/23/2003
YJL435	GE10	3.407	34.426	177.79	3/23/2003
YJL436	GE10	3.407	34.448	177.79	3/23/2003
YJL437	GE10	3.407	35.721	177.79	3/23/2003
YJL438	GE10	3.407	35.730	177.79	3/23/2003
YJL439	GE10	3.407	35.734	177.79	3/23/2003
YJL440	GE10	3.407	35.718	177.79	3/23/2003
YJL441	GE10	3.407	34.211	177.79	3/23/2003
YJL442	GE10	3.407	34.221	177.79	3/23/2003
YJL443	GE10	3.407	34.212	177.79	3/23/2003
YJL444	GE10	3.407	34.228	177.79	3/23/2003
YJL445	GE10	3.407	30.573	177.79	4/12/2001
YJL446	GE10	3.407	30.579	177.79	4/12/2001
YJL447	GE10	3.407	30.555	177.79	4/12/2001
YJL448	GE10	3.407	30.558	177.79	4/12/2001
YJL449	GE10	3.407	30.469	177.79	4/12/2001
YJL450	GE10	3.407	30.478	177.79	4/12/2001
YJL451	GE10	3.407	30.461	177.79	4/12/2001
YJL452	GE10	3.407	30.468	177.79	4/12/2001
YJL453	GE10	3.407	40.706	177.79	3/23/2003
YJL454	GE10	3.407	40.728	177.79	3/23/2003
YJL455	GE10	3.407	40.717	177.79	3/23/2003
YJL456	GE10	3.407	40.719	177.79	3/23/2003
YJL457	GE10	3.407	30.400	177.79	4/12/2001
YJL458	GE10	3.407	30.400	177.79	4/12/2001
YJL459	GE10	3.407	30.387	177.79	4/12/2001
YJL460	GE10	3.407	30.403	177.79	4/12/2001
YJL461	GE10	3.407	33.819	177.79	3/23/2003
YJL462	GE10	3.407	33.816	177.79	3/23/2003
YJL463	GE10	3.407	33.831	177.79	3/23/2003
YJL464	GE10	3.407	33.829	177.79	3/23/2003
YJL465	GE10	3.407	33.978	177.79	3/23/2003
YJL466	GE10	3.407	33.961	177.79	3/23/2003
YJL467	GE10	3.407	33.961	177.79	3/23/2003
YJL468	GE10	3.407	33.949	177.79	3/23/2003
YJL469	GE10	3.407	34.948	177.79	3/23/2003
YJL470	GE10	3.407	34.964	177.79	3/23/2003

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJL471	GE10	3.407	34.956	177.79	3/23/2003
YJL472	GE10	3.407	34.951	177.79	3/23/2003
YJL473	GE10	3.407	36.682	177.79	3/23/2003
YJL474	GE10	3.407	36.685	177.79	3/23/2003
YJL475	GE10	3.407	36.674	177.79	3/23/2003
YJL476	GE10	3.407	36.669	177.79	3/23/2003
YJL477	GE10	3.419	36.446	177.14	3/23/2003
YJL478	GE10	3.419	36.445	177.14	3/23/2003
YJL479	GE10	3.419	36.448	177.14	3/23/2003
YJL480	GE10	3.419	36.437	177.14	3/23/2003
YJL481	GE10	3.419	40.330	177.14	3/23/2003
YJL482	GE10	3.419	40.353	177.14	3/23/2003
YJL483	GE10	3.419	40.362	177.14	3/23/2003
YJL484	GE10	3.419	40.390	177.14	3/23/2003
YJL485	GE10	3.419	35.623	177.14	3/23/2003
YJL486	GE10	3.419	35.620	177.14	3/23/2003
YJL487	GE10	3.419	35.654	177.14	3/23/2003
YJL488	GE10	3.419	35.641	177.14	3/23/2003
YJL489	GE10	3.419	36.006	177.14	3/23/2003
YJL490	GE10	3.419	36.003	177.14	3/23/2003
YJL491	GE10	3.419	35.998	177.14	3/23/2003
YJL492	GE10	3.419	36.027	177.14	3/23/2003
YJL493	GE10	3.419	35.601	177.14	3/23/2003
YJL494	GE10	3.419	35.610	177.14	3/23/2003
YJL495	GE10	3.419	35.601	177.14	3/23/2003
YJL496	GE10	3.419	35.618	177.14	3/23/2003
YJL497	GE10	3.419	34.690	177.14	3/23/2003
YJL498	GE10	3.419	34.682	177.14	3/23/2003
YJL499	GE10	3.419	34.706	177.14	3/23/2003
YJL500	GE10	3.419	34.705	177.14	3/23/2003
YJL501	GE10	3.419	36.069	177.14	3/23/2003
YJL502	GE10	3.419	36.070	177.14	3/23/2003
YJL503	GE10	3.419	36.081	177.14	3/23/2003
YJL504	GE10	3.419	36.081	177.14	3/23/2003
YJL505	GE10	3.419	40.137	177.14	3/23/2003
YJL506	GE10	3.419	40.130	177.14	3/23/2003
YJL507	GE10	3.419	40.141	177.14	3/23/2003

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJL508	GE10	3.419	40.144	177.14	3/23/2003
YJL509	GE10	3.419	36.188	177.14	3/23/2003
YJL510	GE10	3.419	36.204	177.14	3/23/2003
YJL511	GE10	3.419	36.213	177.14	3/23/2003
YJL512	GE10	3.419	36.203	177.14	3/23/2003
YJL513	GE10	3.419	35.439	177.14	3/23/2003
YJL514	GE10	3.419	35.427	177.14	3/23/2003
YJL515	GE10	3.419	35.383	177.14	3/23/2003
YJL516	GE10	3.419	35.412	177.14	3/23/2003
YJU141	GE12	3.714	34.520	180.35	3/23/2003
YJU142	GE12	3.714	34.538	180.35	3/23/2003
YJU143	GE12	3.714	34.533	180.35	3/23/2003
YJU144	GE12	3.714	34.552	180.35	3/23/2003
YJU161	GE12	3.714	34.389	180.35	3/23/2003
YJU162	GE12	3.714	34.393	180.35	3/23/2003
YJU163	GE12	3.714	34.377	180.35	3/23/2003
YJU164	GE12	3.714	34.381	180.35	3/23/2003
YJU177	GE12	3.714	35.170	180.35	3/23/2003
YJU178	GE12	3.714	35.167	180.35	3/23/2003
YJU179	GE12	3.714	35.150	180.35	3/23/2003
YJU180	GE12	3.714	35.145	180.35	3/23/2003
YJU181	GE12	3.714	34.628	180.35	3/23/2003
YJU182	GE12	3.714	34.643	180.35	3/23/2003
YJU183	GE12	3.714	34.640	180.35	3/23/2003
YJU184	GE12	3.714	34.637	180.35	3/23/2003
YJU185	GE12	3.714	34.637	180.35	3/23/2003
YJU186	GE12	3.714	34.629	180.35	3/23/2003
YJU187	GE12	3.714	34.617	180.35	3/23/2003
YJU188	GE12	3.714	34.622	180.35	3/23/2003
YJU193	GE12	3.714	34.500	180.35	3/23/2003
YJU194	GE12	3.714	34.487	180.35	3/23/2003
YJU195	GE12	3.714	34.488	180.35	3/23/2003
YJU196	GE12	3.714	34.502	180.35	3/23/2003
YJU197	GE12	3.714	34.732	180.35	3/23/2003
YJU198	GE12	3.714	34.749	180.35	3/23/2003
YJU199	GE12	3.714	34.753	180.35	3/23/2003
YJU200	GE12	3.714	34.731	180.35	3/23/2003

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJU205	GE12	3.703	33.081	179.89	3/23/2003
YJU206	GE12	3.703	33.099	179.89	3/23/2003
YJU207	GE12	3.703	33.104	179.89	3/23/2003
YJU208	GE12	3.703	33.109	179.89	3/23/2003
YJU213	GE12	3.703	33.483	179.89	3/23/2003
YJU214	GE12	3.703	33.485	179.89	3/23/2003
YJU215	GE12	3.703	33.484	179.89	3/23/2003
YJU216	GE12	3.703	33.486	179.89	3/23/2003
YJU225	GE12	3.703	35.232	179.89	3/23/2003
YJU226	GE12	3.703	35.238	179.89	3/23/2003
YJU227	GE12	3.703	35.213	179.89	3/23/2003
YJU228	GE12	3.703	35.230	179.89	3/23/2003
YJU229	GE12	3.703	35.278	179.89	3/23/2003
YJU230	GE12	3.703	35.282	179.89	3/23/2003
YJU231	GE12	3.703	35.275	179.89	3/23/2003
YJU232	GE12	3.703	35.295	179.89	3/23/2003
YJU241	GE12	3.703	33.119	179.89	3/23/2003
YJU242	GE12	3.703	33.123	179.89	3/23/2003
YJU243	GE12	3.703	33.109	179.89	3/23/2003
YJU244	GE12	3.703	33.090	179.89	3/23/2003
YJY741	GE14	3.984	40.111	179.33	3/28/2005
YJY742	GE14	3.984	40.124	179.33	3/28/2005
YJY743	GE14	3.984	40.124	179.33	3/28/2005
YJY744	GE14	3.984	40.104	179.33	3/28/2005
YJY745	GE14	3.984	41.412	179.33	3/28/2005
YJY746	GE14	3.984	41.438	179.33	3/28/2005
YJY747	GE14	3.984	41.405	179.33	3/28/2005
YJY748	GE14	3.984	41.429	179.33	3/28/2005
YJY749	GE14	3.984	41.150	179.33	3/28/2005
YJY750	GE14	3.984	41.171	179.33	3/28/2005
YJY751	GE14	3.984	41.154	179.33	3/28/2005
YJY752	GE14	3.984	41.166	179.33	3/28/2005
YJY753	GE14	3.984	40.795	179.33	3/28/2005
YJY754	GE14	3.984	40.800	179.33	3/28/2005
YJY755	GE14	3.984	40.786	179.33	3/28/2005
YJY756	GE14	3.984	40.772	179.33	3/28/2005
YJY757	GE14	3.984	44.118	179.33	2/4/2007

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJY758	GE14	3.984	44.097	179.33	2/4/2007
YJY759	GE14	3.984	44.107	179.33	2/4/2007
YJY760	GE14	3.984	44.087	179.33	2/4/2007
YJY761	GE14	3.984	43.927	179.33	2/4/2007
YJY762	GE14	3.984	43.924	179.33	2/4/2007
YJY763	GE14	3.984	43.930	179.33	2/4/2007
YJY764	GE14	3.984	43.920	179.33	2/4/2007
YJY765	GE14	3.984	40.119	179.33	3/28/2005
YJY766	GE14	3.984	40.125	179.33	3/28/2005
YJY767	GE14	3.984	40.118	179.33	3/28/2005
YJY768	GE14	3.984	40.110	179.33	3/28/2005
YJY769	GE14	3.984	43.645	179.33	2/4/2007
YJY770	GE14	3.984	43.639	179.33	2/4/2007
YJY771	GE14	3.984	43.627	179.33	2/4/2007
YJY772	GE14	3.984	43.644	179.33	2/4/2007
YJY807	GE14	4.022	41.679	178.84	3/28/2005
YJY808	GE14	4.022	41.686	178.84	3/28/2005
YJY809	GE14	4.022	43.609	178.84	2/4/2007
YJY810	GE14	4.022	43.601	178.84	2/4/2007
YJY811	GE14	4.022	43.573	178.84	2/4/2007
YJY812	GE14	4.022	43.583	178.84	2/4/2007
YJY813	GE14	4.022	41.229	178.84	3/28/2005
YJY814	GE14	4.022	41.223	178.84	3/28/2005
YJY815	GE14	4.022	41.218	178.84	3/28/2005
YJY816	GE14	4.022	41.218	178.84	3/28/2005
YJY817	GE14	4.022	40.562	178.84	3/28/2005
YJY818	GE14	4.022	40.552	178.84	3/28/2005
YJY819	GE14	4.022	40.547	178.84	3/28/2005
YJY820	GE14	4.022	40.545	178.84	3/28/2005
YJY821	GE14	4.022	38.969	178.84	3/28/2005
YJY822	GE14	4.022	38.962	178.84	3/28/2005
YJY823	GE14	4.022	38.967	178.84	3/28/2005
YJY824	GE14	4.022	38.949	178.84	3/28/2005
YJY825	GE14	4.022	40.834	178.84	3/28/2005
YJY826	GE14	4.022	40.835	178.84	3/28/2005
YJY827	GE14	4.022	40.856	178.84	3/28/2005
YJY828	GE14	4.022	40.845	178.84	3/28/2005

Attachment 4

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJY829	GE14	4.070	41.301	179.22	2/4/2007
YJY830	GE14	4.070	41.298	179.22	2/4/2007
YJY831	GE14	4.070	41.305	179.22	2/4/2007
YJY832	GE14	4.070	41.326	179.22	2/4/2007
YJY833	GE14	4.070	46.034	179.22	2/4/2007
YJY834	GE14	4.070	46.046	179.22	2/4/2007
YJY835	GE14	4.070	46.008	179.22	2/4/2007
YJY836	GE14	4.070	46.002	179.22	2/4/2007
YJY837	GE14	4.070	46.994	179.22	2/4/2007
YJY838	GE14	4.070	46.989	179.22	2/4/2007
YJY839	GE14	4.070	46.994	179.22	2/4/2007
YJY840	GE14	4.070	46.971	179.22	2/4/2007
YJY841	GE14	4.070	42.599	179.22	2/4/2007
YJY842	GE14	4.070	42.594	179.22	2/4/2007
YJY843	GE14	4.070	42.581	179.22	2/4/2007
YJY844	GE14	4.070	42.586	179.22	2/4/2007
YJY845	GE14	4.070	47.314	179.22	2/4/2007
YJY846	GE14	4.070	47.307	179.22	2/4/2007
YJY847	GE14	4.070	47.306	179.22	2/4/2007
YJY848	GE14	4.070	47.316	179.22	2/4/2007
YJY849	GE14	4.070	42.597	179.22	2/4/2007
YJY850	GE14	4.070	42.589	179.22	2/4/2007
YJY851	GE14	4.070	42.558	179.22	2/4/2007
YJY852	GE14	4.070	42.561	179.22	2/4/2007
YJY853	GE14	4.070	39.541	179.22	2/4/2007
YJY854	GE14	4.070	39.559	179.22	2/4/2007
YJY855	GE14	4.070	39.566	179.22	2/4/2007
YJY856	GE14	4.070	39.554	179.22	2/4/2007
YJY857	GE14	4.070	47.866	179.22	2/4/2007
YJY858	GE14	4.070	47.883	179.22	2/4/2007
YJY859	GE14	4.070	47.880	179.22	2/4/2007
YJY860	GE14	4.070	47.889	179.22	2/4/2007
YJY861	GE14	4.070	39.760	179.22	3/28/2005
YJY862	GE14	4.070	39.755	179.22	3/28/2005
YJY863	GE14	4.070	39.752	179.22	3/28/2005
YJY864	GE14	4.070	39.745	179.22	3/28/2005
YJY865	GE14	4.070	48.118	179.22	2/4/2007

Attachment 4

Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YJY866	GE14	4.070	48.125	179.22	2/4/2007
YJY867	GE14	4.070	48.110	179.22	2/4/2007
YJY868	GE14	4.070	48.118	179.22	2/4/2007
YLD631	GNF2	3.936	44.525	185.79	9/4/2018
YLD632	GNF2	3.936	44.726	185.79	9/4/2018
YLD633	GNF2	3.936	44.506	185.79	9/4/2018
YLD634	GNF2	3.936	44.379	185.79	9/4/2018
YLD635	GNF2	3.936	39.825	185.79	9/4/2018
YLD636	GNF2	3.936	44.963	185.79	9/4/2018
YLD637	GNF2	3.936	44.893	185.79	9/4/2018
YLD638	GNF2	3.936	39.715	185.79	9/4/2018
YLD647	GNF2	3.936	40.590	185.79	9/4/2018
YLD648	GNF2	3.936	40.615	185.79	9/4/2018
YLD649	GNF2	3.936	40.598	185.79	9/4/2018
YLD650	GNF2	3.936	40.588	185.79	9/4/2018
YLD651	GNF2	3.936	44.121	185.79	9/4/2018
YLD652	GNF2	3.936	40.032	185.79	9/4/2018
YLD653	GNF2	3.936	39.915	185.79	9/4/2018
YLD654	GNF2	3.936	44.119	185.79	9/4/2018
YLD663	GNF2	3.994	42.641	185.99	9/4/2018
YLD664	GNF2	3.994	42.440	185.99	9/4/2018
YLD665	GNF2	3.994	42.355	185.99	9/4/2018
YLD666	GNF2	3.994	42.433	185.99	9/4/2018
YLD667	GNF2	3.994	42.953	185.99	9/4/2018
YLD668	GNF2	3.994	43.011	185.99	9/4/2018
YLD669	GNF2	3.994	42.938	185.99	9/4/2018
YLD670	GNF2	3.994	42.759	185.99	9/4/2018
YLD671	GNF2	3.994	42.920	185.99	9/4/2018
YLD672	GNF2	3.994	42.625	185.99	9/4/2018
YLD673	GNF2	3.994	42.797	185.99	9/4/2018
YLD674	GNF2	3.994	42.948	185.99	9/4/2018
YLD675	GNF2	3.994	42.699	185.99	9/4/2018
YLD676	GNF2	3.994	42.511	185.99	9/4/2018
YLD677	GNF2	3.994	42.687	185.99	9/4/2018
YLD678	GNF2	3.994	42.742	185.99	9/4/2018
YLD679	GNF2	3.994	44.695	185.99	9/4/2018
YLD680	GNF2	3.994	45.365	185.99	9/4/2018

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Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YLD681	GNF2	3.994	45.445	185.99	9/4/2018
YLD682	GNF2	3.994	44.689	185.99	9/4/2018
YLD683	GNF2	3.994	43.591	185.99	9/4/2018
YLD684	GNF2	3.994	43.466	185.99	9/4/2018
YLD685	GNF2	3.994	43.481	185.99	9/4/2018
YLD686	GNF2	3.994	43.215	185.99	9/4/2018
YLD687	GNF2	3.994	44.922	185.99	9/4/2018
YLD688	GNF2	3.994	44.662	185.99	9/4/2018
YLD689	GNF2	3.994	44.639	185.99	9/4/2018
YLD690	GNF2	3.994	44.856	185.99	9/4/2018
YLD691	GNF2	3.994	44.616	185.99	9/4/2018
YLD692	GNF2	3.994	44.875	185.99	9/4/2018
YLD693	GNF2	3.994	44.536	185.99	9/4/2018
YLD694	GNF2	3.994	44.480	185.99	9/4/2018
YLD704	GNF2	4.129	45.306	185.95	9/4/2018
YLD705	GNF2	4.129	45.309	185.95	9/4/2018
YLD711	GNF2	4.129	45.567	185.95	9/4/2018
YLD712	GNF2	4.129	43.186	185.95	9/4/2018
YLD713	GNF2	4.129	43.175	185.95	9/4/2018
YLD714	GNF2	4.129	45.530	185.95	9/4/2018
YLD715	GNF2	4.129	41.003	185.95	9/4/2018
YLD716	GNF2	4.129	42.654	185.95	9/4/2018
YLD717	GNF2	4.129	42.658	185.95	9/4/2018
YLD718	GNF2	4.129	40.942	185.95	9/4/2018
YLD719	GNF2	4.129	43.794	185.95	9/4/2018
YLD720	GNF2	4.129	43.615	185.95	9/4/2018
YLD721	GNF2	4.129	43.551	185.95	9/4/2018
YLD722	GNF2	4.129	43.755	185.95	9/4/2018
YLD723	GNF2	4.129	43.385	185.95	9/4/2018
YLD726	GNF2	4.129	43.322	185.95	9/4/2018
YLD727	GNF2	4.129	44.926	185.95	9/4/2018
YLD728	GNF2	4.129	44.570	185.95	9/4/2018
YLD729	GNF2	4.129	44.527	185.95	9/4/2018
YLD730	GNF2	4.129	44.874	185.95	9/4/2018
YLD731	GNF2	4.129	44.846	185.95	9/4/2018
YLD732	GNF2	4.129	44.469	185.95	9/4/2018
YLD733	GNF2	4.129	44.388	185.95	9/4/2018

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Fuel Assembly ID	Assembly Type	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass* (kg)	Discharge Date
YLD734	GNF2	4.129	44.720	185.95	9/4/2018
YLD735	GNF2	4.234	43.257	186.05	9/4/2018
YLD736	GNF2	4.234	43.129	186.05	9/4/2018
YLD737	GNF2	4.234	43.054	186.05	9/4/2018
YLD738	GNF2	4.234	43.159	186.05	9/4/2018
YLD739	GNF2	4.234	41.672	186.05	9/4/2018
YLD740	GNF2	4.234	42.242	186.05	9/4/2018
YLD741	GNF2	4.234	42.193	186.05	9/4/2018
YLD742	GNF2	4.234	41.450	186.05	9/4/2018
YLD743	GNF2	4.234	43.849	186.05	9/4/2018
YLD744	GNF2	4.234	43.529	186.05	9/4/2018
YLD745	GNF2	4.234	43.495	186.05	9/4/2018
YLD746	GNF2	4.234	43.679	186.05	9/4/2018
YLD747	GNF2	4.234	43.186	186.05	9/4/2018
YLD748	GNF2	4.234	43.007	186.05	9/4/2018
YLD749	GNF2	4.234	42.976	186.05	9/4/2018
YLD750	GNF2	4.234	43.103	186.05	9/4/2018

* For assemblies starting with LYA, YJ5, YJ9, and YJF, the nominal masses were not available. The masses noted in the table for those assemblies are the average weight for each batch.

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Table 2 – Core Inventory

Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
YLD639	3.936	44.912	185.793
YLD640	3.936	44.648	185.793
YLD641	3.936	44.631	185.793
YLD642	3.936	44.768	185.793
YLD643	3.936	46.343	185.793
YLD644	3.936	47.386	185.793
YLD645	3.936	50.054	185.793
YLD646	3.936	46.269	185.793
YLD655	3.994	43.804	185.986
YLD656	3.994	43.226	185.986
YLD657	3.994	44.030	185.986
YLD658	3.994	43.733	185.986
YLD659	3.994	43.644	185.986
YLD660	3.994	43.758	185.986
YLD661	3.994	45.420	185.986
YLD662	3.994	43.653	185.986
YLD695	3.994	50.578	185.986
YLD696	3.994	44.220	185.986
YLD697	3.994	44.204	185.986
YLD698	3.994	50.598	185.986
YLD699	3.994	50.545	185.986
YLD700	3.994	43.969	185.986
YLD701	3.994	43.889	185.986
YLD702	3.994	50.471	185.986
YLD703	4.129	50.615	185.952
YLD706	4.129	50.630	185.952
YLD707	4.129	46.273	185.952
YLD708	4.129	47.679	185.952
YLD709	4.129	43.222	185.952
YLD710	4.129	46.226	185.952
YLD724	4.129	50.831	185.952
YLD725	4.129	50.696	185.952
YLD751	4.362	44.429	186.398
YLD752	4.362	45.983	186.398
YLD753	4.362	45.990	186.398
YLD754	4.362	44.182	186.398

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Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
YLD755	4.362	45.899	186.398
YLD756	4.362	48.848	186.398
YLD757	4.362	48.734	186.398
YLD758	4.362	45.866	186.398
YLD759	4.362	49.823	186.398
YLD760	4.362	49.537	186.398
YLD761	4.362	44.719	186.398
YLD762	4.362	45.771	186.398
YLD763	4.362	49.580	186.398
YLD764	4.362	45.573	186.398
YLD765	4.362	45.010	186.398
YLD766	4.362	44.922	186.398
YLD767	4.362	44.636	186.361
YLD768	4.362	44.600	186.361
YLD769	4.362	44.602	186.361
YLD770	4.362	44.596	186.361
YLD771	4.362	50.016	186.361
YLD772	4.362	48.798	186.361
YLD773	4.362	44.686	186.361
YLD774	4.362	49.929	186.361
YLD775	4.362	49.845	186.361
YLD776	4.362	49.672	186.361
YLD777	4.362	49.544	186.361
YLD778	4.362	49.798	186.361
YLD779	4.362	49.655	186.361
YLD780	4.362	49.480	186.361
YLD781	4.362	49.554	186.361
YLD782	4.362	49.605	186.361
26U401	3.937	47.012	185.985
26U402	3.937	46.952	185.985
26U403	3.937	46.982	185.985
26U404	3.937	46.937	185.985
26U405	3.937	46.547	185.985
26U406	3.937	46.467	185.985
26U407	3.937	46.474	185.985
26U408	3.937	46.487	185.985
26U409	3.937	41.960	185.985

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Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
26U410	3.937	41.915	185.985
26U411	3.937	41.849	185.985
26U412	3.937	41.801	185.985
26U413	3.937	47.903	185.985
26U414	3.937	38.098	185.985
26U415	3.937	42.818	185.985
26U416	3.937	47.869	185.985
26U417	3.994	48.175	185.986
26U418	3.994	47.942	185.986
26U419	3.994	47.953	185.986
26U420	3.994	47.773	185.986
26U421	3.994	47.968	185.986
26U422	3.994	47.858	185.986
26U423	3.994	47.896	185.986
26U424	3.994	47.770	185.986
26U425	3.994	42.613	185.986
26U426	3.994	41.406	185.986
26U427	3.994	41.412	185.986
26U428	3.994	41.299	185.986
26U429	3.994	42.952	185.986
26U430	3.994	43.055	185.986
26U431	3.994	38.170	185.986
26U432	3.994	42.923	185.986
26U433	3.994	45.777	185.986
26U434	3.994	45.735	185.986
26U435	3.994	45.628	185.986
26U436	3.994	45.544	185.986
26U437	3.994	41.607	185.986
26U438	3.994	37.876	185.986
26U439	3.994	37.910	185.986
26U440	3.994	41.485	185.986
26U441	3.994	46.307	185.986
26U442	3.994	46.150	185.986
26U443	3.994	46.143	185.986
26U444	3.994	46.051	185.986
26U445	3.994	41.562	185.986
26U446	3.994	41.547	185.986

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Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
26U447	3.994	41.430	185.986
26U448	3.994	41.382	185.986
26U449	3.994	45.964	185.986
26U450	3.994	46.003	185.986
26U451	3.994	45.929	185.986
26U452	3.994	45.912	185.986
26U453	3.994	46.811	185.986
26U454	3.994	46.889	185.986
26U455	3.994	46.906	185.986
26U456	3.994	46.848	185.986
26U457	3.994	47.167	185.986
26U458	3.994	48.596	185.986
26U459	3.994	48.279	185.986
26U460	3.994	48.231	185.986
26U461	3.994	48.407	185.986
26U462	3.994	48.416	185.986
26U463	3.994	48.644	185.986
26U464	3.994	47.175	185.986
26U465	3.994	47.471	185.986
26U466	3.994	48.129	185.986
26U467	3.994	48.058	185.986
26U468	3.994	48.023	185.986
26U469	3.994	47.261	185.986
26U470	3.994	48.029	185.986
26U471	3.994	47.297	185.986
26U472	3.994	47.320	185.986
26U473	3.994	41.645	185.986
26U474	3.994	41.569	185.986
26U475	3.994	37.728	185.986
26U476	3.994	37.660	185.986
26U477	3.994	37.808	185.986
26U478	3.994	42.548	185.986
26U479	3.994	41.409	185.986
26U480	3.994	42.359	185.986
26U481	4.130	46.633	185.970
26U482	4.130	46.695	185.970
26U483	4.130	46.608	185.970

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Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
26U484	4.130	46.548	185.970
26U485	4.130	46.709	185.970
26U486	4.130	46.699	185.970
26U487	4.130	46.788	185.970
26U488	4.130	46.681	185.970
26U489	4.130	47.458	185.970
26U490	4.130	49.014	185.970
26U491	4.130	47.457	185.970
26U492	4.130	48.961	185.970
26U493	4.130	48.088	185.970
26U494	4.130	48.027	185.970
26U495	4.130	48.041	185.970
26U496	4.130	48.008	185.970
26U497	4.130	46.399	185.970
26U498	4.130	46.327	185.970
26U499	4.130	48.420	185.970
26U500	4.130	48.426	185.970
26U501	4.130	38.916	185.970
26U502	4.130	46.315	185.970
26U503	4.130	43.538	185.970
26U504	4.130	46.315	185.970
26U505	4.130	48.851	185.970
26U506	4.130	48.499	185.970
26U507	4.130	48.440	185.970
26U508	4.130	48.810	185.970
26U509	4.130	46.519	185.970
26U510	4.130	46.477	185.970
26U511	4.130	46.459	185.970
26U512	4.130	46.483	185.970
26U513	4.234	37.823	186.051
26U514	4.234	37.926	186.051
26U515	4.234	37.820	186.051
26U516	4.234	37.753	186.051
26U517	4.234	37.838	186.051
26U518	4.234	37.956	186.051
26U519	4.234	37.788	186.051
26U520	4.234	37.755	186.051

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Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
26U521	4.234	36.689	186.051
26U522	4.234	36.628	186.051
26U523	4.234	36.604	186.051
26U524	4.234	36.521	186.051
26U525	4.234	36.673	186.051
26U526	4.234	36.709	186.051
26U527	4.234	36.747	186.051
26U528	4.234	36.730	186.051
26U529	4.234	38.652	186.051
26U530	4.234	38.662	186.051
26U531	4.234	38.512	186.051
26U532	4.234	38.639	186.051
26U533	4.234	38.672	186.051
26U534	4.234	38.550	186.051
26U535	4.234	38.558	186.051
26U536	4.234	38.654	186.051
26U537	4.362	34.309	186.483
26U538	4.362	34.223	186.483
26U539	4.362	34.169	186.483
26U540	4.362	34.227	186.483
26U541	4.362	34.485	186.483
26U542	4.362	34.426	186.483
26U543	4.362	34.342	186.483
26U544	4.362	34.443	186.483
26U545	4.362	38.685	186.483
26U546	4.362	38.459	186.483
26U547	4.362	38.431	186.483
26U548	4.362	38.458	186.483
26U549	4.362	38.561	186.483
26U550	4.362	38.449	186.483
26U551	4.362	38.335	186.483
26U552	4.362	38.570	186.483
27U001	3.948	28.535	185.121
27U002	3.948	28.485	185.121
27U003	3.948	28.503	185.121
27U004	3.948	28.467	185.121
27U005	3.948	28.307	185.121

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Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
27U006	3.948	28.275	185.121
27U007	3.948	28.319	185.121
27U008	3.948	28.260	185.121
27U009	3.948	27.202	185.121
27U010	3.948	27.212	185.121
27U011	3.948	27.179	185.121
27U012	3.948	27.184	185.121
27U013	3.948	26.924	185.121
27U014	3.948	26.975	185.121
27U015	3.948	26.968	185.121
27U016	3.948	26.917	185.121
27U017	3.948	24.939	185.121
27U018	3.948	24.926	185.121
27U019	3.948	24.911	185.121
27U020	3.948	24.893	185.121
27U021	3.948	25.304	185.121
27U022	3.948	25.381	185.121
27U023	3.948	25.387	185.121
27U024	3.948	25.318	185.121
27U025	4.141	26.511	185.107
27U026	4.141	26.507	185.107
27U027	4.141	26.511	185.107
27U028	4.141	26.485	185.107
27U029	4.141	25.813	185.107
27U030	4.141	25.859	185.107
27U031	4.141	25.880	185.107
27U032	4.141	25.780	185.107
27U033	4.141	27.742	185.107
27U034	4.141	27.770	185.107
27U035	4.141	27.752	185.107
27U036	4.141	27.706	185.107
27U037	4.141	27.603	185.107
27U038	4.141	27.640	185.107
27U039	4.141	27.650	185.107
27U040	4.141	27.563	185.107
27U041	4.141	27.248	185.107
27U042	4.141	27.269	185.107

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Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
27U043	4.141	27.247	185.107
27U044	4.141	27.241	185.107
27U045	4.141	27.315	185.107
27U046	4.141	27.376	185.107
27U047	4.141	27.403	185.107
27U048	4.141	27.279	185.107
27U049	4.006	26.442	185.121
27U050	4.006	26.443	185.121
27U051	4.006	26.435	185.121
27U052	4.006	26.405	185.121
27U053	4.006	25.790	185.121
27U054	4.006	25.808	185.121
27U055	4.006	25.835	185.121
27U056	4.006	25.745	185.121
27U057	4.006	27.786	185.121
27U058	4.006	27.801	185.121
27U059	4.006	27.787	185.121
27U060	4.006	27.787	185.121
27U061	4.006	27.739	185.121
27U062	4.006	27.769	185.121
27U063	4.006	27.764	185.121
27U064	4.006	27.677	185.121
27U065	4.006	25.232	185.121
27U066	4.006	25.301	185.121
27U067	4.006	25.227	185.121
27U068	4.006	25.248	185.121
27U069	4.006	25.261	185.121
27U070	4.006	25.330	185.121
27U071	4.006	25.355	185.121
27U072	4.006	25.214	185.121
27U073	4.000	27.843	185.121
27U074	4.000	27.846	185.121
27U075	4.000	27.824	185.121
27U076	4.000	27.835	185.121
27U077	4.000	27.674	185.121
27U078	4.000	27.695	185.121
27U079	4.000	27.699	185.121

Attachment 4

Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
27U080	4.000	27.654	185.121
27U081	4.000	27.939	185.121
27U082	4.000	27.947	185.121
27U083	4.000	27.939	185.121
27U084	4.000	27.891	185.121
27U085	4.000	27.759	185.121
27U086	4.000	27.793	185.121
27U087	4.000	27.836	185.121
27U088	4.000	27.743	185.121
27U089	4.000	25.275	185.121
27U090	4.000	25.308	185.121
27U091	4.000	25.265	185.121
27U092	4.000	25.229	185.121
27U093	4.000	25.424	185.121
27U094	4.000	25.506	185.121
27U095	4.000	25.535	185.121
27U096	4.000	25.450	185.121
27U097	4.373	23.644	185.641
27U098	4.373	23.723	185.641
27U099	4.373	23.657	185.641
27U100	4.373	23.600	185.641
27U101	4.373	23.681	185.641
27U102	4.373	23.761	185.641
27U103	4.373	23.810	185.641
27U104	4.373	23.687	185.641
27U105	4.373	24.856	185.641
27U106	4.373	24.928	185.641
27U107	4.373	24.792	185.641
27U108	4.373	24.867	185.641
27U109	4.373	24.862	185.641
27U110	4.373	24.926	185.641
27U111	4.373	24.970	185.641
27U112	4.373	24.859	185.641
27U113	4.373	24.439	185.641
27U114	4.373	24.349	185.641
27U115	4.373	24.379	185.641
27U116	4.373	24.300	185.641

Attachment 4

Fuel Assembly ID	Nominal Initial U-235 Enrichment (wt %)	Burnup (GWD/MTU)	Nominal Initial Uranium Mass (kg)
27U117	4.373	24.416	185.641
27U118	4.373	24.323	185.641
27U119	4.373	24.442	185.641
27U120	4.373	24.315	185.641
27U121	4.088	27.571	185.227
27U122	4.088	27.602	185.227
27U123	4.088	27.545	185.227
27U124	4.088	27.546	185.227
27U125	4.088	27.528	185.227
27U126	4.088	27.587	185.227
27U127	4.088	27.612	185.227
27U128	4.088	27.499	185.227
27U129	4.088	25.570	185.227
27U130	4.088	25.601	185.227
27U131	4.088	25.536	185.227
27U132	4.088	25.558	185.227
27U133	4.088	25.570	185.227
27U134	4.088	25.577	185.227
27U135	4.088	25.611	185.227
27U136	4.088	25.523	185.227
27U137	4.133	26.044	185.263
27U138	4.133	26.104	185.263
27U139	4.133	26.048	185.263
27U140	4.133	26.045	185.263
27U141	4.133	26.102	185.263
27U142	4.133	26.186	185.263
27U143	4.133	26.206	185.263
27U144	4.133	26.086	185.263
27U145	4.133	27.728	185.263
27U146	4.133	27.737	185.263
27U147	4.133	27.719	185.263
27U148	4.133	27.709	185.263
27U149	4.133	27.713	185.263
27U150	4.133	27.726	185.263
27U151	4.133	27.740	185.263
27U152	4.133	27.657	185.263

Attachment 5

Email Transmittal of Attachment 4

From: [Brian Froese](#)
To: [Dwayne Blaylock](#); [Andrew Rabaioli-Brosius](#); [Kelly Stevens](#)
Subject: FW: DIT 1
Date: Monday, July 22, 2019 12:51:44 PM
Attachments: [DIT 1 for ENERCON.pdf](#)
[Enercon Item 2 Data- DIT 1 .docx](#)

FYI we received a signed DIT for the SFP inventory which can be referenced in our calculations.

Brian Froese
Nuclear/Chemical Engineer
Enercon Services, Inc.
Office: 770-792-6941|Mobile: 845-546-5200
E-mail: bfroese@enercon.com



From: Huebsch, Steve <Steve.Huebsch@nexteraenergy.com>
Sent: Monday, July 22, 2019 10:54 AM
To: Guy Spikes <gspikes@enercon.com>; Guy Spikes <gspikes@enercon.com>; Brian Froese <bfroese@enercon.com>; Gatlin, Anthony <Anthony.Gatlin@nexteraenergy.com>; Matt Wilkinson <MWILKINSON@ENERCON.COM>; Fuentes, Emilio <Emilio.Fuentes@fpl.com>; Lindley, Brad <Brad.Lindley@nexteraenergy.com>; Cloe, Zachary <Zachary.Cloe@nexteraenergy.com>
Cc: Hansen, Paul <Paul.Hansen@nexteraenergy.com>
Subject: DIT 1

Attached is DIT 1 which transmits all of item 2 information. The remaining information will be transferred upon completion of the PIA.

Please acknowledge receipt of information by ENERCON. Thanks.

Decay Heat Source Terms

The purpose of this attachment is to calculate the decay heat source terms in the SFP as a function of time. These can be used in cladding temperature analyses to support the EP exemption request.

ORIGEN-ARP has the capability of calculating the total watts for the decayed sources developed. This function was used for each of the 0Y, 2Y, 4Y, 6Y, 10Y, and 20Y group sources. The total watts are per basis, which in this case are per MTU. The decay heats are presented in Table A6-1.

Table A6-1 Decay Heat Source Terms from ORIGEN-ARP

Decay Time	0 Year Decay (W/MTU)	0.75 Year Decay (W/MTU)	0.83 Year Decay (W/MTU)	0.92 Year Decay (W/MTU)	1 Year Decay (W/MTU)
0 Years	1.73E+06	1.13E+04	1.04E+04	9.57E+03	8.95E+03
2 Years	5.62E+03	4.06E+03	3.94E+03	3.82E+03	3.71E+03
4 Years	2.74E+03	2.34E+03	2.31E+03	2.27E+03	2.24E+03
6 Years	1.97E+03	1.82E+03	1.81E+03	1.80E+03	1.79E+03
10 Years	1.38E+03	1.34E+03	1.34E+03	1.34E+03	1.33E+03
20 Years	8.46E+02	8.34E+02	8.32E+02	8.31E+02	8.30E+02

Table A6-1 (cont'd) Decay Heat Source Terms from ORIGEN-ARP

Decay Time	1.25 Year Decay (W/MTU)	1.5 Year Decay (W/MTU)	2 Year Decay (W/MTU)	3 Year Decay (W/MTU)	5 Year Decay (W/MTU)
0 Years	7.43E+03	6.33E+03	4.79E+03	3.09E+03	1.83E+03
2 Years	3.41E+03	3.16E+03	2.77E+03	2.27E+03	1.80E+03
4 Years	2.15E+03	2.08E+03	1.96E+03	1.78E+03	1.57E+03
6 Years	1.75E+03	1.72E+03	1.67E+03	1.58E+03	1.46E+03
10 Years	1.32E+03	1.31E+03	1.29E+03	1.26E+03	1.20E+03
20 Years	8.26E+02	8.22E+02	8.14E+02	7.99E+02	7.70E+02

For the limiting fuel element, the Cycle 27 maximum burnup (50,831 MWd/MTU), minimum enrichment (3.936%), and maximum MTU (0.1865 MTU) were used, as presented in Table A6-2.

The ORIGEN input files for these sensitivities are included in Attachment 1.

Table A6-2 Bounding Decay Heat Source Terms from ORIGEN-ARP

Decay Time	0 Year Decay (W/MTU)	0.75 Year Decay (W/MTU)	0.83 Year Decay (W/MTU)	0.92 Year Decay (W/MTU)	1 Year Decay (W/MTU)
Cycle 27, max. burnup, min. enrichment, max. MTU	1.42E+06	1.23E+04	1.15E+04	1.08E+04	1.01E+04

Table A6-2 (cont'd) Bounding Decay Heat Source Terms from ORIGEN-ARP

Decay Time	1.25 Year Decay (W/MTU)	1.5 Year Decay (W/MTU)	2 Year Decay (W/MTU)	3 Year Decay (W/MTU)	5 Year Decay (W/MTU)
Cycle 27, max. burnup, min. enrichment, max. MTU	8.63E+03	7.49E+03	5.88E+03	4.05E+03	2.61E+03

The worst-case (hottest) bundle is one that was discharged at the end of Cycle 27 and has been cooling for nine months (0.75 years). From Table A6-2, it's heat load after 9 months is 1.23E+04 W/MTU. The maximum 0.1865 MTU/assembly value was derived above from Cycle 27 data. The worst-case heat per assembly is calculated as follows:

$$\text{Worst - case bundle heat load} = \frac{1.23E + 04 \text{ W}}{\text{MTU}} \times \frac{0.1865 \text{ MTU}}{\text{assembly}} = 2294 \frac{\text{W}}{\text{assembly}}$$

The total heat generation rate in the SFP is calculated by multiplying each source by the MTU per assembly and the number of assemblies in that group. An example of the 1-year decayed sources are shown below. The number of assemblies and MTU values for each group are consistent with Section 7.2.

The total heat generation rate for the SFP as a function of decay time is presented in Table A6-3.

Total Heat Generation (W)

$$\begin{aligned}
&= \left[368 \text{ assemblies from Group 1} \times \left(\frac{8.95E + 03 W}{MTU} \text{ from Table A6 - 1} \right) \right. \\
&\quad \times 0.1857 \frac{MTU}{Assy} \text{ from Table 7 - 3} \\
&\quad + 152 \text{ assemblies from Group 2} \times \left(\frac{3.71E + 03 W}{MTU} \text{ from Table A6 - 1} \right) \\
&\quad \times 0.1859 \frac{MTU}{Assy} \text{ from Table 7 - 3} \\
&\quad + 152 \text{ assemblies from Group 3} \times \left(\frac{2.24E + 03 W}{MTU} \text{ from Table A6 - 1} \right) \\
&\quad \times 0.1832 \frac{MTU}{Assy} \text{ from Table 7 - 3} \\
&\quad + 261 \text{ assemblies from Group 4} \times \left(\frac{1.79E + 03 W}{MTU} \text{ from Table A6 - 1} \right) \\
&\quad \times 0.1793 \frac{MTU}{Assy} \text{ from Table 7 - 3} \\
&\quad + 641 \text{ assemblies from Group 5} \times \left(\frac{1.33E + 03 W}{MTU} \text{ from Table A6 - 1} \right) \\
&\quad \times 0.1789 \frac{MTU}{Assy} \text{ from Table 7 - 3} \\
&\quad \left. + 549 \text{ assemblies from Group 6} \times \left(\frac{8.30E + 02 W}{MTU} \text{ from Table A6 - 1} \right) \right. \\
&\quad \left. \times 0.1795 \frac{MTU}{Assy} \text{ from Table 7 - 3} \right] = 1.10E + 06 W
\end{aligned}$$

Table A6-3 Total Decay Heat Source Terms

Decay Time	0 Year Decay (W)	0.75 Year Decay (W)	0.83 Year Decay (W)	0.92 Year Decay (W)	1 Year Decay (W)
Heat (W)	1.19E+08	1.27E+06	1.21E+06	1.14E+06	1.10E+06

Table A6-3 (cont'd) Total Decay Heat Source Terms

Decay Time	1.25 Year Decay (W)	1.5 Year Decay (W)	2 Year Decay (W)	3 Year Decay (W)	5 Year Decay (W)
Heat (W)	9.79E+05	8.92E+05	7.66E+05	6.22E+05	5.01E+05

Design Information Transmittal

From:	Steve Huebsch Design Engineering Supervisor , NEER		
To :	Matt Wilkinson, Project Manager		
Document/ EC/ Tracking Number:	Contract Number 2324944	Date: 7/25/19	DIT No: 02
	Release 042		
Document Title:	Decay Heat Calculation		
Facility/ Unit:	Duane Arnold	Quality Classification	1

SUBJECT: Transfer of design inputs in order for ENERCON to perform three separate analysis are being requested to support the Reduction in EP staff following removal of all fuel from the reactor and revision of the Fuel Handling Accident. These calculations are: Revision of the Fuel Handling Accident to determine when Reduction of commitment for the Control Building will be allowed, Determination of the fuel cladding (zirc fire) 10 hour minimum time allowance, and the Spent Fuel Pool loss of inventory Shine Dose Analysis.

Check if applicable:

This DIT confirms information previously transmitted orally on _____ by _____.

This information is preliminary. See explanation below.

SOURCE OF INFORMATION (Source documents should be uniquely identified)
References noted for each parameter provided.

DESCRIPTION OF INFORMATION (Write the information being transmitted or list each document being transmitted)

Information is specific to the design and operating time associated with the fuel used in the Duane Arnold reactor. The data is specific to GNF2 fuel currently in the spent fuel pool or to be removed from the vessel and stored in the spent fuel pool following the shutdown in fall 2020 at the end of plant life. Information is detailed in the attachment. Prepared and reviewed by the engineers in the NEER/FPL Corporate Nuclear Fuels group.

Design Information Transmittal

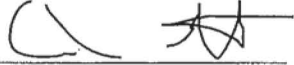
DISTRIBUTION (Recipients should receive all attachments unless otherwise indicated. All attachments are uncontrolled unless otherwise indicated)

- Matt Wilkinson- Enercon
- Guy Spikes – Enercon
- Dwayne Blaylock- Enercon
- Brian Froese- Enercon
- Emilio Fuentes - NEER
- Steve Huebsch –NEER
- Brad Lindley- NEER
- Zach Cloe- NEER

PREPARED BY (The Preparer and Approver may be the same person.)

<u>James French</u>	<u>Nuclear Fuels Engineer</u>		<u>07/25/2019</u>
Preparer Name	Position	Signature	Date

VERIFIED BY (Design verification is required if the information is not a verified design output. Verification is also required if the information is developed, interpreted, or extracted from an unverified source. Otherwise, N/A).

<u>Emilio Fuentes</u>	<u>Nuclear Fuels Manager</u>		<u>7/25/2019</u>
Verifier Name	Position	Signature	Date

APPROVED BY (The cognizant Engineering Supervisor has release authority. Consult the Design Interface Agreement or local procedures to determine who else has release authority.)

<u>Steve Huebsch</u>	<u>Design Engineering Supervisor</u>		<u>7-25-19</u>
Approver Name	Position	Signature	Date

A copy of the DIT (along with any attachments not on file) should be included with the associated EC or document record.

Final Core Fuel Assembly Design Inputs (item 1)

Parameter	Value	Reference
Assembly type	216 GNF2, 152 GNF2.02	CAL-F18-005 R0 (C27 COLR)
Array size	10x10	DB-0011.03 Section 3.1.1
Fuel assembly length	176.18 in	105E4559sh1r0
Fuel assembly width	5.283 in	DB-0011.03 Section 3.9.3
Length of fuel rods	160.53, 110.81, 59.35 in	DB-0011.03 Section 3.5.1
Length of active fuel region	150, 102, 54 in	DB-0011.03 Section 3.5.4
Distance from bottom of fuel element to start of active fuel region	7.436 in	105E4559sh1r0
Hardware/structural mass and material type(s) in fuel element above active fuel region (springs, caps, upper plenum, etc.)	see list 1	GNF DRF 63-0199 R1
Hardware/structural mass and material type(s) in fuel element below active fuel region (springs, caps, lower plenum, etc.)	see list 2	GNF DRF 63-0199 R1
Number of fuel rods per assembly	92*	DB-0011.03 Sections 3.1.5, 3.1.6
Fuel rod pitch	0.510 in	DB-0011.03 Section 3.1.2
Fuel rod outer diameter	0.404 in	DB-0011.03 Section 3.3.1
Clad thickness	0.0236 in	DB-0011.03 Section 3.3.3
Cladding material	Zircaloy	GNF DRF 63-0199 R1
Fuel pellet diameter	0.3496 in	DB-0011.03 Section 3.4.1
Fuel pellet density	see attachment 1	DB-0003.26 Rev 16 Section 3.1.6
Number of water rods per assembly	2	DB-0011.03 Section 3.1.4
Water rod outer diameter in active fuel region	0.591 in (0-14.14 in) 0.980 in (14.14-147.39 in) 0.591 in (147.39-150 in)	DB-0011.03 Sections 3.6.3, 3.6.5
Water rod thickness in active fuel region	0.030 in	DB-0011.03 Section 3.6.4
Water rod material in active fuel region	Zircaloy	GNF DRF 63-0199 R1
Channel box material	Zircaloy	GNF DRF 63-0199 R1
Channel box dimensions - inside width of channel, thickness and width of each region in the channel (corner, wall, groove)	see attachment 2	DB-0003.26 Rev 16 Figure 3
Spacer material	Alloy X-750	GNF DRF 63-0199 R1
Spacer weight	2.13 lb	GNF DRF 63-0199 R1

* 78 full length rods, 8 long part length rods, 6 short part length rods

List 1

endplugs (78)	zircaloy	2.40 lb
upper tieplate	stainless steel	4.34 lb
locktab washers and nuts	stainless steel	0.09 lb
retainer springs	stainless steel	0.87 lb
channel fastener guard	stainless steel	0.57 lb
channel fastener spring	alloy X-750	0.11 lb
channel fastener cap screw	alloy X-750	0.05 lb
channel fastener lock washer	alloy X-750	0.00 lb
expansion springs	alloy X-750	0.64 lb
endplugs (14) *	zircaloy	0.43 lb

* these endplugs are in active fuel region, as they are at ends of part length rods

List 2

lower tieplate w/ defender filter	stainless steel	14.62 lb
endplugs (92)	zircaloy	2.83 lb

Attachment 1

3.1.6.1 Fuel Stack Density

The fuel stack density accounts for pellet-to-pellet gaps, chamfers, etc., and represents the average density for the fuel column. The stack density varies with initial concentration of Gd₂O₃ and is given by the equation:

$$\text{fuel stack density, } \rho \text{ (g/cc)} = \text{GSF} \times \text{PD} \times (10.95 - 3.4 \times G),$$

where:

GSF=0.9911 & PD=0.970 for the GNF-A factory

GSF=0.9915 & PD=0.970 for the ENUSA factory

G = weight fraction Gd₂O₃ of U²³⁵/Gd₂O₃ mixture (e.g., 0.03, 0.04, 0.05)

		GNF-A factory							
G		0.00	0.02	0.03	0.04	0.05	0.06	0.07	0.08
ρ		10.527	10.462	10.429	10.396	10.364	10.331	10.298	10.265
		ENUSA factory							
G		0.00	0.02	0.03	0.04	0.05	0.06	0.07	0.08
ρ		10.531	10.466	10.433	10.400	10.368	10.335	10.302	10.270

3.1.6.2 Initial Concentrations of U²³⁴ and U²³⁶

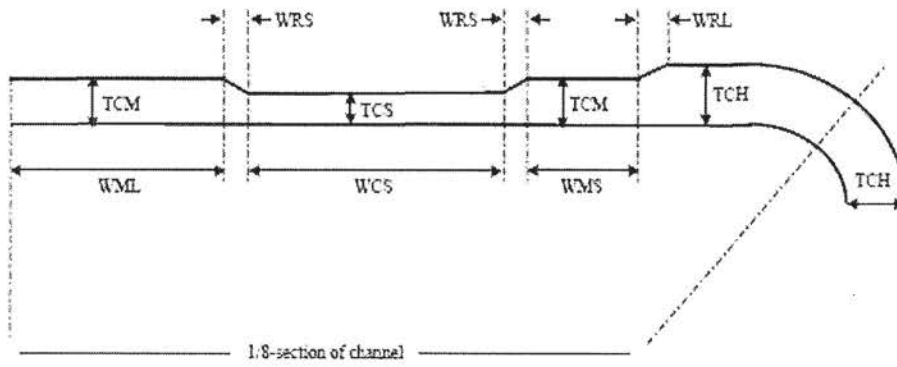
All nuclear physics libraries generated with the Lattice Physics Code shall be produced with the following inputs:

$$\text{WF}_{\text{U}234} = (0.95 \times \text{WF}_{\text{U}235} - 0.0014) / 100$$

$$\text{WF}_{\text{U}236} = 0.0$$

where: WF = weight fraction of uranium (e.g., 0.0395 for WF_{U235})

Attachment 2



Channel Name (NMCHNL)	Dimension	100T2		120T2		100A2	
		mm	inches	mm	inches	mm	inches
Corner thickness	TCH	2.54	0.1000	3.05	0.1201	2.54	0.1000
Side thickness	TCM	1.65	0.0650	1.90	0.0748	1.65	0.0650
Groove thickness	TCS	1.27	0.0500	0.00	0.0000	0.00	0.0000
Major side 1/2-width	WML	17.17	0.6760	46.61	1.8350	46.86	1.8449
Minor side width	WMS	8.05	0.3169	0.00	0.0000	0.00	0.0000
Groove width	WCS	20.28	0.7984	0.00	0.0000	0.00	0.0000
Corner ramp width	WRL	2.21	0.0870	2.46	0.0969	2.21	0.0870
Groove ramp width	WRS	0.68	0.0268	0.00	0.0000	0.00	0.0000

Attachment 8

Email Transmittal of Attachment 7

From: [Brian Froese](#)
To: [Andrew Rabaioli-Brosius](#); [Kelly Stevens](#)
Cc: [Dwayne Blaylock](#); [Guy Spikes](#)
Subject: FW: DIT 2 for GE information
Date: Thursday, July 25, 2019 11:53:37 AM
Attachments: [DIT2 for ENERCON analysis.pdf](#)

FYI we received the second DIT.

Brian Froese
Nuclear/Chemical Engineer
Enercon Services, Inc.
Office: 770-792-6941|Mobile: 845-546-5200
E-mail: bfroese@enercon.com



From: Matt Wilkinson <MWILKINSON@ENERCON.COM>
Sent: Thursday, July 25, 2019 11:53 AM
To: Brian Froese <bfroese@enercon.com>; Dwayne Blaylock <dblaylock@enercon.com>; Guy Spikes <gspikes@enercon.com>
Subject: FW: DIT 2 for GE information

Matt Wilkinson
(404)668-6747

From: Huebsch, Steve <Steve.Huebsch@nexteraenergy.com>
Sent: Thursday, July 25, 2019 10:47 AM
To: Matt Wilkinson <MWILKINSON@ENERCON.COM>; Cloe, Zachary <Zachary.Cloe@nexteraenergy.com>
Cc: Hansen, Paul <Paul.Hansen@nexteraenergy.com>; Lawrence, Brian <Brian.Lawrence@nexteraenergy.com>
Subject: DIT 2 for GE information

Attached is DIT 2 which transmits the item 1 infomraiton in the design input list. This should conclude the various design input required by ENERCON to complete the calculation .

Reference 3.18, Table 7.1

TABLE 7.1 Half-Value and Tenth-Value Layers^a

Peak Voltage (kV)	Attenuation Material					
	Lead (mm)		Concrete (cm)		Iron (cm)	
	HVL	TVL	HVL	TVL	HVL	TVL
50	0.06	0.17	0.43	1.5		
70	0.17	0.52	0.84	2.8		
100	0.27	0.88	1.6	5.3		
125	0.28	0.93	2.0	6.6		
150	0.30	0.99	2.24	7.4		
200	0.52	1.7	2.5	8.4		
250	0.88	2.9	2.8	9.4		
300	1.47	4.8	3.1	10.4		
400	2.5	8.3	3.3	10.9		
500	3.6	11.9	3.6	11.7		
1,000	7.9	26	4.4	14.7		
2,000	12.5	42	6.4	21		
3,000	14.5	48.5	7.4	24.5		
4,000	16	53	8.8	29.2	2.7	9.1
6,000	16.9	56	10.4	34.5	3.0	9.9
8,000	16.9	56	11.4	37.8	3.1	10.3
10,000	16.6	55	11.9	39.6	3.2	10.5
Cesium-137	6.5	21.6	4.8	15.7	1.6	5.3
Cobalt-60	12	40	6.2	20.6	2.1	6.9
Radium	16.6	55	6.9	23.4	2.2	7.4

^aApproximate values obtained at high attenuation for the indicated peak voltage values under broad-beam conditions; with low attenuation these values will be significantly less.

Source: *Ref. 15; by permission of the National Council on Radiation Protection and Measurements.*

NG-19-0142

Attachment 4

Duane Arnold Energy Center

List of Regulatory Commitments

1 page follows

List of Regulatory Commitments

This table identifies actions discussed in this letter for which NEDA commits to perform. Any other actions discussed in this submittal are described for the NRC's information and are **not** commitments.

COMMITMENT	TYPE (Check One)		SCHEDULED COMPLETION DATE (If Required)
	ONE-TIME ACTION	CONTINUING COMPLIANCE	
Revise UFSAR to include a description of how the DAEC spent fuel pool design and operational characteristics meets or compares with the NUREG-1738 Industry Decommissioning Commitments (IDCs) and Staff Decommissioning Assumptions (SDAs).	X		Complete in accordance with next scheduled UFSAR update following exemption approval