

Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

July 15, 2005

10 CFR 50.55a

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Mail Stop: OWFN P1-35 Washington, D.C. 20555-0001

Gentlemen:

In the Matter of) Docket No. 50-260 Tennessee Valley Authority)

BROWNS FERRY NUCLEAR PLANT (BFN) - UNIT 2 - AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) SECTION XI, INSERVICE INSPECTION, CONTAINMENT INSPECTION (IWE), AND REPAIR AND REPLACEMENT PROGRAMS - SUMMARY REPORTS (NIS-1 AND NIS-2) FOR CYCLE 13 OPERATION

In accordance with paragraphs IWA-6220, IWA-6230, and IWA-6240 of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, 1995 Edition, 1996 addenda, TVA is submitting BFN Unit 2 outage summary reports for NRC review. The summary reports are for inservice and containment inspection (NIS-1 Report), and repair and replacement activities (NIS-2 Report) for Unit 2 Cycle 13 operation.

TVA has determined that certain BFN Unit 2 welds had nondestructive examination (NDE) coverage limitations (less than 90 percent coverage completed) which exceed that specified in ASME Code Case N-460, "Alternative Examination Coverage for Class 1 and Class 2 Welds, Section XI, Division 1."

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Specifically, one Reactor Recirculation System and one Residual Heat Removal pipe welds received ultrasonic examination coverage of 62.5 and 87.6 percent, respectively. These weld examination limitations will be addressed by TVA in a request for relief and submitted to NRC for staff review and approval at a later date.

Enclosure 1 of this letter contains the BFN Unit 2 Inservice and Containment Inspection Summary Report (NIS-1) for Code Class 1 and 2 pressure retaining components and their supports. Enclosure 2 contains the Repair and Replacement Summary Report (NIS-2) for Code Class 1 and 2 components and supports.

There are no new regulatory commitments in this letter. If you have any questions regarding these reports, please contact me at (256) 729-2636.

Sincerely,

William D. Crouch

Manager of Licensing

Willie V. Comech

and Industry Affairs

Enclosures

ENCLOSURE 1

TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 2

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), SECTION XI, THIRD TEN-YEAR INSPECTION INTERVAL

INSERVICE INSPECTION (ISI), CONTAINMENT INSPECTION, AND AUGMENTED EXAMINATIONS PROGRAM

SUMMARY REPORT (NIS-1) FOR CYCLE 13 OPERATION

(SEE ATTACHED)

BROWNS FERRY

NUCLEAR PLANT

UNIT 2 CYCLE 13

ASME SECTION XI

NIS-1 OWNERS REPORT

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET

DECATUR, ALABAMA 35609-2000

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

UNIT 2 CYCLE 13

NIS-1

"OWNER'S REPORT FOR INSERVICE INSPECTION"

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CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

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OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35609-2000

CHATTANOOGA, TENNESSEE 37402

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APPENDIX I

NIS-1 OWNER'S REPORT

OWNER: TENNESSEE VALLEY AUTHORITY

OFFICE OF NUCLEAR POWER

1101 MARKET STREET

P.O. BOX 2000

CHATTANOOGA, TENNESSEE 37402

DECATUR, ALABAMA 35609-2000

PLANT: BROWNS FERRY NUCLEAR PLANT

UNIT:

TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Inservice Inspection Introduction Summary

In accordance with paragraph IWA-6230 of 1995 Edition, 1996 Addenda of Section XI of the ASME Boiler and Pressure Vessel Code the following information is provided.

- 1. Date of document completion: June 02, 2005
- 2. Name of owner and address of principal offices:

Tennessee Valley Authority Office Of Nuclear Power 1101 Market Street Chattanooga, Tennessee 37402-2801

3. Name and address of the nuclear generating plant:

Browns Ferry Nuclear Plant P.O. Box 2000 Decatur, Alabama 35602

4. Name or number assigned to the nuclear power unit by TVA:

Browns Ferry Nuclear Plant, Unit 2.

5. Commercial operation date of unit:

March 1, 1975

FORM NIS-1 OWNERS' REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

4. Owner Certificate of Authorization Not Required

- 1. Owner <u>Tennessee Valley Authority</u>, 1101 Market St. Chattanooga, TN. 37402 (Name and Address of Owner)
- 2. Plant Browns Ferry Nuclear Plant, P.O. Box 2000 Decatur, AL. 35602 (Name and Address of Plant)

3. Plant Unit ____2___

ce Date <u>03/01/75</u>	_ 6. National Box	ard Number for U	nit Not Required
ected:			
Manufacturer	Manufacturer or Installer	State or	National
or Installer	Serial No.	Province No.	Board No.
General Electric	Contract No. 67C31-90744	<u>N/A</u>	N/A
TVA	N/A	<u>N/A</u>	<u>N/A</u>
			
			
	Manufacturer or Installer General Electric TVA eport for Inservice Inserv	Manufacturer or Installer or Installer Serial No. Contract No. General Electric Manufacturer or Installer Serial No. 67C31-90744	Manufacturer Manufacturer or Installer State or or Installer Serial No. Province No. Contract No. General Electric 67C31-90744 N/A TVA N/A N/A eport for Inservice Inspections

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8.5 in. X 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (back)
8. Examination Dates <u>07/11/03</u> to <u>04/11/05</u>
9. Inspection Period Identification: Second Period, 05/25/04 to 05/24/08
10. Inspection Interval Identification: 05/25/01 to 05/24/11
11. Applicable Edition of Section XI 1995 Edition Addenda 1996
12. Date/Revision of Inspection Plan: 2-SI-4.6.G Revision 027
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.
See Appendix II, III, IV, V, VI, and Attachment 2
14. Abstract of Results of Examinations and Tests.
See Appendix II, III, IV, V, VI, and Attachment 2
15. Abstract of Corrective Measures. See Appendix VI
We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.
Certificate of Authorization No. Not Applicable Expiration Date Not Applicable
Date June 7, 2005 Signed Tennessee Valley Authority By White Signed Owner
CERTIFICATE OF INSERVICE INSPECTION
I, The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Tennessee</u> and employed by <u>HSB-CT</u> of <u>Hartford, CT.</u> , have inspected the components described in this Owners' Report during the period <u>07/11/03</u> to <u>04/11/05</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owners' Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations tests, and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Inspectors Signature Commissions 7N 4011 National Board, State, Province and No.
Translate Date, Date, Florince and Ive.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35609-2000

CHATTANOOGA, TENNESSEE 37402

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APPENDIX II

SCOPE AND INTRODUCTION

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35609-2000

CHATTANOOGA, TENNESSEE 37402

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COMMERCIAL SERVICE DATE: MARCH 1, 1975

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Scope:

The scope of this appendix is to provide an overview of the Inservice inspections performed during the Unit 2/Cycle 13 Outage on Class 1 and 2 components for ASME Section XI Code credit and other augmented examinations.

Introduction:

The examinations were performed in accordance with implementing plant surveillance instruction 2-SI-4.6.G "Inservice Inspection and Risk Informed Inservice Inspection Program Unit 2".
2-SI-4.6.G is organized to comply with the ISI NDE requirements of the 1995 Edition, 1996 Addenda of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Division 1, Articles IWX-1000, IWX-2000, IWX-3000, and IWX-6000 in accordance with Title 10 Code of Federal Regulations (CFR) Part 50, 50.55a (g); to implement the Browns Ferry Nuclear Plant (BFN) Technical Requirements TR-3.4.3; and to fulfill the requirements of SPP-9.1, ASME Section XI Inservice Inspection Program.

Beginning in the Third Period of the Second Inspection Interval, Surveillance Instruction 2-SI-4.6.G implemented the NRC approved BFN Risk-Informed Inservice Inspection Program to address all piping locations that are subject to service induced degradation. In accordance with, "Westinghouse Owners Group (WOG) Application Of Risk-Informed Methods To Piping Inservice Inspection Topical Report, WCAP-14572 revision 1-NP-A, Section 4, Table 4.1-1," this program provides an acceptable alternative approach to the existing ASME Section XI requirements for scope and frequency of piping weld examinations, and satisfies the criteria of 10CFR50.55a(a)(3)(i) providing an acceptable level of quality and safety.

2-SI-4.6.G reflects the built-in limitations of the original plant design, geometry, construction, component materials and the current technology or state-of-the-art nondestructive examination techniques. The SI specifies the methods to be used and provides schedule tables from which specific items were scheduled for examination during the outage. Examinations were witnessed or verified by an Authorized Nuclear Inservice Inspector (ANII) and performed in accordance with the Section XI of the ASME Boiler and Pressure Vessel Code.

Inservice Inspections for the Unit 2 Cycle 13 refueling outage began on July 11, 2003 and ended on April 11, 2005. ISI examinations were performed on the following systems: Core Spray (CS), Reactor Feedwater (FW), High Pressure Coolant Injection (HPCI), Main Steam (MS), Reactor Recirculation (RECIRC), Residual Heat Removal (RHR), Residual Heat Removal Service Water (RHRSW), Reactor Pressure Vessel (RPV), and Reactor Water Clean-up (RWCU).

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The majority of examinations were performed by the TVA Inspection Services Organization (ISO). Augmentation of personnel was provided by Wesdyne, Inc., and AREVA (Framatome).

An overview of ISI activities consists of the following:

- . ASME Section XI Class 1 and 2 Piping Examinations
- . ASME Section XI Class 1 Reactor Pressure Vessel Weld Examinations
- . ASME Section XI Class 1 and 2 Support Examinations
- . Reactor Pressure Vessel In-Vessel Visual Inspection Examinations (RPVII)
- . Augmented Examinations

OWNER: TENNESSEE VALLEY AUTHORITY

OFFICE OF NUCLEAR POWER

PLANT: BROWNS FERRY NUCLEAR PLANT P.O. BOX 2000

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DECATUR, ALABAMA 35609-2000

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APPENDIX III

ISI ABSTRACT

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35609-2000

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Examination Summary:

The Unit 2, Cycle 13 Inservice Inspection (ISI) was the first scheduled refueling outage during the second inspection period of the third ASME Section XI 10-year inspection interval.

Approximately 39 visual, 20 ultrasonic (14 of these welds are inclusive to take credit for BWRVIP-75, IGSCC Category "C"= 6, "D" = 2, "E" = 4, and "G" = 2 visual examinations. Also 8 of these were for Risk – Informed ISI Credit for the Flow Accelerated Corrosion (FAC)

Program.), 2 magnetic particle and 1 liquid penetrant examinations were performed in support of code credit components. Also, preservice examinations were performed; 4 visual examinations, 2 liquid penetrant examinations, and 1 ultrasonic examination. These examinations were performed on ASME Section XI Code Class 1 and 2 Components. ASME Code Category and Item Numbers for components examined are listed in Appendix V.

Nine (9) Notification of Indications (NOI's) were issued to document indications identified during the performance of the examinations in the Containment Inservice Inspection (CISI) Program (IWE). These NOI's were evaluated by engineering and dispositioned (see Appendix VI, Summary of Indications).

Other examinations were performed in accordance with BFN's augmented inspection program and are included in Attachment 1 for information. Approximately 182 visual, 53 ultrasonic, and 11 radiography examinations were performed in accordance with the augmented programs. These totals are inclusive of the Reactor Pressure Vessel Internals Inspection (RPVII) Augmented examination program on Unit 2 RPV internals.

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CHATTANOOGA, TENNESSEE 37402

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ASME Code Cases

The following code cases have been approved for use as applicable during the Unit 2/Cycle 13 outage:

N-498-4 Alternate Requirements for 10-Year System Hydrostatic Testing for Class 1, 2 and 3 Systems Section XI, Division 1. With additional condition from Regulatory Guide 1.147, Revision 13, January 2004. The provisions of IWA-5213, "Test Condition Holding Times," 1989 Edition, are to be used.

N-577 Risk-Informed Requirements for Class 1, 2, and 3 Piping, Method A, , Section XI, Division 1, (RIMS # R08 000601 846), with the more detailed provisions provided in WCAP-14572, Revision 1-NPA, "Westinghouse Owners Group Application Of Risk - Informed Methods To Piping Inservice Inspection Topical Report." Reference Safety Evaluation Report (SER) from NRC Date January 19, 2001.

N-526 Alternate Requirements for Successive Inspections of Class 1, and 2 Vessels Section XI, Division 1.

N-586 Alternate Additional Examination Requirements for Class 1, 2, and 3 Piping, Components, and Supports, Section XI, Division 1. With additional condition from Regulatory Guide 1.147, Revision 13, January 2004. The engineering evaluations addressed under item (a) and the additional examinations addressed under Item (b) shall be performed during this outage. If the additional examinations performed under (b) reveal indications exceeding the applicable acceptance criteria of Section XI, the engineering evaluations and the examinations shall be further extended to include additional evaluations and examinations at this outage.

N-598 Alternate requirements to Required Percentages of Examinations Section XI, Division 1.

N-623 Deferral of Inspections of Shell-to-Flange and Head-to-Flange Welds of a Reactor Vessel Section XI, Division 1.

N-624 Successive Inspections, Section XI, Division 1.

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COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

UNIT 2 INTERVAL STATUS

The BFN Unit 2 cycle 13 outage ISI examinations were performed during the first scheduled refueling outage of the second period of the third interval. The component quantities examined were determined from 2-SI-4.6.G, Table 8.1 (Parts 1, 2, 3, 4, and 6), Unit 2 Class 1 and 2 components, and from applicable BFN Unit 2 relief requests. This NIS-1 report covers the Cycle 13 Outage for Browns Ferry Unit 2. The following table summarizes the percentage of Code required examinations completed to date.

Table 1 summarizes code credited examinations by category and percentages completed and complies with ASME Section XI percentage requirements.

TABLE 1
ASME SECTION XI EXAMINATION SUMMARY FOR THE SECOND PERIOD OF THE THIRD TEN-YEAR INSPECTION INTERVAL

CATEGORY/CLASS	% CO	MPLETE COMMENTS
B-A/ 1	12%	Reference RFR # 2-ISI-9 (Category B-A, Item No. B1.11)
B-B	N/A	
B-D/1	42%	Reference RFR # 2-ISI-16 and 2-ISI-17, approved by NRC
B-F/ 1	N/A	Risk-Informed ISI implemented in the second interval
B-G-1/ 1	12%	
B-G-2/ 1	40%	Item No. B7.50 Pipe Bolting
B-G-2/ 1	22%	Item No.B7.70 Valve Bolting, inspect when the valve is disassembled
B-J/1	N/A	Risk-Informed ISI implemented in the second interval
B-K/ 1	47%	
B-L-1	N/A	
B-L-2/ 1	0%	
B-M-1	N/A	
B-M-2/ 1	19%	When disassembled
B-N-1/ 1	40%	Each period
B-N-2/ 1	5%	Deferral permissible
B-O	N/A	Make-up exclusion reference 2-SI-4.6.G, Paragraph 7.1.3.G
B-P	N/A	Refer to pressure test program
C-A/2	25%	
C-B/ 2	33%	
C-C/2	31%	
C-D	N/A	
C-F-1/2	N/A	Risk-Informed ISI implemented in the second interval
C-F-2/2	N/A	Risk-Informed ISI implemented in the second interval
<u>C-G</u>	N/A	
F-A/ 1 and 2	38%	ASME Code Class 1 and 2 Pipe Supports only
R-A / 1 and 2	41%	Risk-Informed ISI implemented in the second period second interval.
This percentage does no	include	Flow Accelerated Corrosion (FAC) Item # R1.18.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

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NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

PERSONNEL/EQUIPMENT CERTIFICATIONS:

NDE personnel certification records for TVA and contractor employees are maintained by TVA's Nuclear Engineering and Technical Services Corporate, Inspection Services Organization (ISO). These records are maintained as permanent QA records for a forty year plant life. Any details or specifics regarding NDE certification records should be directed to the ISO at the Sequoyah Training Center in Soddy-Daisy, Tennessee at telephone number (423) 843-4026.

NDE equipment certification records are maintained by the TVA ISO. Any details or specifics regarding NDE equipment certification records should be directed to ISO at the Sequoyah Training Center in Soddy Daisy, Tennessee at telephone number (423)843-4026.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

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APPENDIX IV EXAMINATION LIMITATIONS

OWNER: TENNESSEE VALLEY AUTHORITY PL

OFFICE OF NUCLEAR POWER

CHATTANOOGA, TENNESSEE 37402

1101 MARKET STREET

PLANT: BROWNS FERRY NUCLEAR PLANT

P.O. BOX 2000

DECATUR, ALABAMA 35609-2000

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

METHOD OF CALCULATION OF LIMITATIONS

During the performance of Inservice Inspections, the ASME Section XI Code 1995 Edition, 1996 Addenda, requires the determination of the ultrasonic examination volume to establish the required beam path angles needed to maximize coverage and verify technique parameters. This information is necessary in those instances where there may be a reduction in the examination volume.

Surface examinations are typically conducted on 100% of the weld length plus a defined amount of base material on each side of the weld. Surface areas are calculated in those instances where there may be a reduction in the examination area.

The Code required ultrasonic examination volume or surface examination area for each type of piping weld or nozzle-to-vessel weld is depicted in the figures of IWB-2500 or IWC-2500. As depicted for piping welds, volume width generally constitutes the weld plus 1/4" on each side while volume thickness generally constitutes the lower 1/3 of the piping thickness for the length of the weld. As depicted, for nozzle-to-vessel welds, the volume width generally constitutes the weld plus 1/2t (ts/2) on each side of the weld while volume thickness generally constitutes the entire component thickness (i.e. full volume). The volume changes with variations in weld configuration (e.g. transition between different pipe thickness or nozzle-to-vessel configuration). Therefore, it is necessary to determine the required volume for each group of similar welds to allow setting of scanner limits for automated ultrasonic examinations and scan paths for manual ultrasonic examinations. Surface examination area is generally the weld plus 1/2-inch of base material on each side of the weld.

Reactor Pressure Vessel Nozzle to shell or head weld examination volume has been reduced to ½" beyond the widest part of the boundary of the deposited weld material in lieu of the requirements of ASME Section XI Figures IWB-2500-7 (a) and IWB-2500-7 (b) per Request For Relief No. PDI-2.

Paragraph IWA-2232 of the Code requires that the ultrasonic examination of piping systems be conducted in accordance with Appendix I of ASME Section XI. Appendix I requires that the ultrasonic examination of piping systems be conducted in accordance with Appendix VIII of ASME Section XI, and the nozzle-to-vessel welds be conducted in accordance with Article 4 of ASME Section V, 1995 Edition, 1996 Addenda as supplemented by Appendix I of ASME Section XI. Appendix VIII and Article 4 define the applicable examination methods (e.g., examination angles, scan directions) to be used during examination.

TVA developed procedure N-GP-28 to provide a standardized methodology for calculation of Code coverage in those instances where configuration or other components cause an examination limitation. Components/welds with limitations were evaluated in terms of the feasibility of other NDE techniques or methods to increase coverage.

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COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

EXAMINATION LIMITATIONS:

A tabulation of NDE examination limitations recorded during the Unit 2/Cycle 13 Inservice Inspection is contained in this Appendix.

The following items/components had less than 100% R-A/Code coverage achieved. In accordance with the 1995 Edition, 1996 Addenda of ASME Section XI Code and NRC Information Notice, 98-42 "Implementation Of 10 CFR 50.55a(g) Inservice Inspection Requirements," which defines, "essentially 100%" of each weld to mean "greater than 90%" in 10CFR 50.55a(g)(6)(ii)(A)(2) for required examination coverage of reactor pressure vessel welds. This standard has been applied to all examinations of welds or other areas required by ASME Section XI.

SYSTEM	COMPONENT ID	COVERAGE	CALCULATED	REPORT NO.
		ASME XI	10CFR50.55a	
RECIRC	RWC-2-001-G002	94.25%	94.25%	R-029
RECIRC	KR-2-14	91.25%	91.25%	R-050
RECIRC	KR-2-36	91.75%	91.75%	R-047
RECIRC	KR-2-41	91.75%	91.75%	R-042

The following items/components had examination limitations outside those specified in 1995 Edition, 1996 Addenda of ASME Section XI Code and NRC Information Notice, 98-42 "Implementation Of 10 CFR 50.55a(g) Inservice Inspection Requirements." The Inservice Inspection Program 2-SI-4.6.G will be revised to incorporate these limitations in the form of Requests for Relief (RFR). Program revisions, including Requests for Relief, will be submitted to the NRC. Reference Request For Relief 2-ISI-18 Revision 001.

SYSTEM	COMPONENT ID		CALCULATED 10CFR50.55a	REPORT NO.	RFR NO.
RECIRC	KR-2-03	62.50%	62.50%	R-043	2-ISI-18
RHR	DRHR-2-03	87.58%	87.58%	R-022	2-ISI-18

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APPENDIX V

EXAMINATION PLAN

OFFICE OF NUCLEAR POWER P.O. BOX 2000

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The following printout is an outage ISI report designed to meet the reporting requirements of IWA-6000 of the ASME Section XI Code. This report contains Unit 2/Cycle 13 Inservice Inspection data for Code Class 1 and Code Class 2 components selected for ASME Section XI credit. Attachment 1 contains a summary of Augmented examinations performed during Unit 2/Cycle 13 outage. Attachment 2 contains a summary of IWE-Containment Inservice Inspection (CISI) examinations performed during the Unit 2 Cycle 13 outage. Essential unit and system files are contained herein as a reference to describe abbreviations and features in the printout. The aforementioned precedes the outage ISI report.

Code Class 3 Inservice data and reports are contained in the Browns Ferry Inservice Inspection (ISI) Final Plant Report.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

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NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Key to computer weld/feature tracking system

A. CYCLE- Refueling Cycle Number and Unit Number

B. SYSTEM- System/Component

CCWS- Closed Cooling Water System (Reactor Building Closed Cooling Water)

CRDS- Control Rod Drive System

CSS- Core Spray System

EECW- Emergency Equipment Cooling Water System

FPCS- Fuel Pool Cooling System

FWS- Feedwater System

HPCIS- High Pressure Coolant Injection System

MSS- Main Steam System

RCICS- Reactor Core Isolation Cooling System

RECIR- Recirculation System

RHRS- Residual Heat Removal System

RHRSW- Residual Heat Removal Service Water System

RPV- Reactor Pressure Vessel

RWCU- Reactor Water Cleanup System

- C. Component Number/Identifier
- D. Drawing- ISI Drawing Number and sheet number from the Surveillance Instruction (SI-4.6.G)
- E. Exreq- ASME Section XI Code year and interval (See Note # 1)
- F. Category-Code Category
- G. Item Number-Code Item Number
- H. Exam Scheduled
- I. NDE METH- Nondestructive Examination (NDE) Method

ET- Eddy Current Test

MT- Magnetic Particle Test

PT- Penetrant Test

RT- Radiography Test

UT- Ultrasonic Test

VT- Visual Test

OWNER: TENNESSEE VALLEY AUTHORITY

PLANT: BROWNS FERRY NUCLEAR PLANT

OFFICE OF NUCLEAR POWER

P.O. BOX 2000

1101 MARKET STREET

DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

- J. Calibration Standard- If required
- K. Exam Date- Date of Inspection
- L. Exam Report No.- Examination Report Number
- M. Exam Results P Pass
 - R- Rejectable
 - E- Evaluated acceptable for continued operation by Engineering

O. COMMENTS

NOTE (1): EXREQ Identifiers:

- 96E-03 ASME Section XI Code 1995 Edition, 1996 Addenda/ Third Interval
- P95-96 Preservice Examination Cycle 12/ Third Interval
- B01-02 Feedwater Sparger Visual (VT-1) Examinations to 0-TI-365
- B02-02 Examinations performed to BWRVIP-75 for IGSCC detection
- B04-02 Weld inspection for Pipe Whip Protection
- B07-02 Examinations performed to the recommendations of BWRVIP-27 and BWRVIP-49
- S01-03 Successive Examinations
- V01-02 Voluntary Examinations
- OTI365 Augmented examinations of RPV Internals

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET

DECATUR, ALABAMA 35609-2000

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

UNIT 2/CYCLE 13 ISI REPORT OF CLASS 1 AND CLASS 2 COMPONENTS

Sam Flood, ANI/ANII, PEC-1C, BFN

BROWNS FERRY NUCLEAR PLANT (BFN) – UNIT 2 CYCLE 13 REFUELING OUTAGE INSERVICE INSPECTION (ISI) SCAN PLAN REV 000

Attached for your review is the BFN Unit 2 Cycle 13 Refueling Outage ISI Scan Plan, Revision 000, for the examinations to be performed for the current Unit 2 outage by BFN Site Engineering/Components Engineering. These examinations are being performed to satisfy the requirements of ASME Section XI Code, 1995 Edition, 1996 Addenda.

This document was prepared by Harold E. Hodges of BFN Components Engineering and coordinated with Matthew Welch and Fred Froscello of TVAN Inspection Services Organization (ISO).

Harold E. Hodges

ISI Engineer

BFN Components Engineering

Matthew C. Welch BFN ISO, NDE Level III

Frederick W. Froscello Jr.

BFN ISO, NDE Specialist - ISI

Kevin L. Groom

BFN Materials Engineering Supervisor,

Mechanical Nuclear

Sam Flood ANI/ANII

Concurrence

cc: R. K. Golub, SAB-1B, BFN M. L. Turnbow, STC-1I, SQN

Revision 000 02/03/2005

Total Examinations: 77

TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 EXAMS SCHEDULED FOR CYCLE 13

SYSTEM	WELDNO	SEGMENT	ISONO	CYCLE	ITEMNO	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESB
CSS	2-47B458S0004-IA		2-ISI-0280-C-01	13	B10.20	B-K	96E-03	MT	N-MT-6			0.750	WLD ATT	
FWS	2RFW2A-17R	2-003-036	2-ISI-0269-C-01	13	R1.18	R-A	96E-03	UT-	N-UT-26	STP WDG	20	1.281	RED	
FWS	2RFW2A-39E	2-003-039	2-ISI-0269-C-01	13	R1.18	R-A	96E-03	UT	N-UT-26	STP WDG	12	1.012	EL	
FWS	2RFW2A-41E	2-003-039	2-1S1-0269-C-01	13	R1.18	R-A	96E-03	UT	N-UT-26	STP WDG	12	0.844	EL	
FWS	2RFW2B-14R	2-003-040	2-ISI-0269-C-01	13	R1.18	R-A	96E-03	UT	N-UT-26	STP WDG	24	1.531	RED	
FWS	2RFW5A1-1N	2-003-044	2-FAC-003-005-0	1 13	R1.18	R-A	96E-03	VIS	BOP-VT-2		18	0.938	NOZ	
FWS	2RFW5A1-2E	2-003-044	2-FAC-003-005-0	1 13	R1.18	R-A	96E-03	VIS	BOP-VT-2		18	0.938	EL	
FWS	GFW-2-12		2-ISI-0269-C-01	13	TS3432	B-J	B04-02	UT	N-UT-76	ALTCS	12.75	0.844	TEE	P
FWS	GFW-2-29		2-ISI-0269-C-01	13	TS3432	B-J	B04-02	UT	N-UT-76	ALTCS	12.75	0.844	TEE	P
HPCIS	2-47B455H0048		ISI-0275-C-01	13	F1.10C	F-A	96E-03	VT-3	N-VT-1		10.00		VAR SUP	
HPCIS	HPC1-2-004-009		ISI-0128-C-02	13	C5.51	C-F-2	P95-96	MT	N-MT-6		10.00	0.719	EL	VLV
HPCIS	HPC1-2-004-009		ISI-0128-C-02	13	C5.51	C-F-2	P95-96	UT	N-UT-76	ALTCS	10.00	0.719	EL	VLV
MSS	2-47B400S0006		2-ISI-0279-C-02	13	F1.10B	F-A	P95-96	VT-3	N-VT-1		26.00		RGD HGR	
MSS	2-47B400S0007		2-ISI-0279-C-02	13	F1.10B	Γ-A	96E-03	VT-3	N-VT-I		26.00		RGD HGR	
MSS	2-47B400S0007		2-ISI-0279-C-02	13	F1.10B	F-A	P95-96	VT-3	N-VT-I		26.00		RGD HGR	
MSS	2-47B400S0014		2-ISI-0279-C-02	13	F1.10C	F-A	96E-03	VT-3	N-VT-1		26.00		VAR SUP	
MSS	2-47B400S0014-IA		2-ISI-0279-C-02	13	B10.20	B-K	96E-03	MT	N-MT-6			0.500	WLD ATT	
MSS	2-47B400S0102		2-ISI-0279-C-02	13	F1.10D	F-A	96E-03	VT-3	N-VT-1		26.00		SNBR	
MSS	2-47B400S0201		2-ISI-0279-C-01	13	F1.10D	F-A	96E-03	VT-3	N-VT-I		26.00		SNBR	•
MSS	2MSZ1A-HDR	2-001-036	2-ISI-0222-C-01	13	R1.18	R-A	96E-03	VIS	N-VT-14		26	0.950	HDR	
MSS	2MSZ-MS1A-9FN	2-001-036	2-ISI-0222-C-01	13	R1.18	R-A	96E-03	UT	N-UT-26	STP WDG	26	1.012	NOZ BR	
MSS	2MSZ-MS2B-20E	2-001-046	2-MSG-0021-C-0	1 13	R1.18	R-A	96E-03	UT	N-UT-26	STP WDG	24	1.219	EL	
MSS	2MSZ-MS2C-8E	2-001-038	2-ISI-0222-C-02	13	R1.18	R-A	96E-03	UT	N-UT-26	STP WDG	26	1.012	EL	
MSS	2MSZ-MS2C-9FN	2-001-038	2-ISI-0222-C-02	13	R1.18	R-A	96E-03	UT.	N-UT-26	STP WDG	26	1.012	NOZ BR	
MSS	GMS-2-06		2-ISI-0222-C-01	13	TS3432	B-J	B04-02	UT	N-UT-76	ALTCS	26.00	0.950	P	EL
MSS	KMS-2-104		2-ISI-0222-C-01	13	TS3432	B-J	B04-02	UT	N-UT-76	ALTCS	26.00	0.950	EL	HDR
MSS	MSBC-2-03		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-1	N-VT-I				BLTG	
MSS	MSBC-2-12		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-1	N-VT-1				BLTG	
MSS	PCV1-2-030-PBC		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-1	N-VT-1				BLTG	
MSS	PCV1-2-034-PBC		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03 .	VT-1	N-VT-1				BLTG	
MSS	PCV1-2-041-PBC		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-I	N-VT-1				BLTG	
MSS	PCV1-2-042-PBC		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-I	N-VT-1				BLTG	
RECIR	2-47B408S0068-IE		2-ISI-0278-C-01	13	F1.40D	F-A	96E-03	VT-3	N-VT-1				SNBR	
RECIR	2-47B408S0069-IE		2-ISI-0278-C-01	13	F1.40D	F-A	96E-03	VT-3	N-VT-1				SNBR	
RECIR	2-47B408S0074		2-ISI-0278-C-02	13	F1.10A	F-A	96E-03	VT-3	N-VT-1		22.00		RGD STRT	

Page 1 of 3

SYSTEM	WELDNO	SEGMENT	ISONO	CYCLE	гтемно	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	номтиск	COMPDESA	COMPDESB
RECIR	GR-2-15(OL)	2-068-006	2-ISI-0270-C-01	13	R1.16E	R-A	96E-03	UT	N-UT-66	BF-50	12.00	1.139	SDL	P
RECIR	GR-2-15(OL)	2-068-006	2-ISI-0270-C-01	13	NU0313	E	B02-02	UT	N-UT-66	BF-50	12.00	1.139	SDL	P
RECIR	KR-2-02	2-068-002	2-ISI-0270-C-01	13	R1.16C	R-A	96E-03	UT	N-UT-64	ALTSS	28.00	1.322	EL	P
RECIR	KR-2-02	2-068-002	2-ISI-0270-C-01	13	NU0313	С	B02-02	UT	N-UT-64	ALTSS	28.00	1.322	EL	P
RECIR	KR-2-03	2-068-002	2-ISI-0270-C-01	13	R1.16C	R-A	96E-03	UT	N-UT-64	ALTSS	28.00	1.322	P	TEE
RECIR	KR-2-03	2-068-002	2-ISI-0270-C-01	13	NU0313	С	B02-02	UΤ	N-UT-64	ALTSS	28.00	1.322	P	TEE
RECIR	KR-2-14	2-068-003	2-ISI-0270-C-01	13	R1.16E	R-A	96E-03	UT	N-UT-64	ALTSS	12.00	0.569	HDR	BRCN
RECIR	KR-2-14	2-068-003	2-ISI-0270-C-01	13	NU0313	Е	B02-02	UT	N-UT-64	ALTSS	12.00	0.569	HDR	BRCN
RECIR	KR-2-36	2-068-015	2-ISI-0270-C-02	13	R1.16E	R-A	96E-03	UT	N-UT-64	ALTSS	12.00	0.569	HDR	BRCN
RECIR	KR-2-36	2-068-015	2-ISI-0270-C-02	13	NU0313	E	B02-02	UT	N-UT-64	ALTSS	12.00	0.569	HDR	BRCN
RECIR	KR-2-37	2-068-015	2-ISI-0270-C-02	13	R1.16E	R-A	96E-03	UT	N-UT-64	ALTSS	22.00	1.030	HDR	CAP
RECIR	KR-2-37	2-068-015	2-ISI-0270-C-02	13	NU0313	E	B02-02	UT	N-UT-64	ALTSS	22.00	1.030	HDR	CAP
RECIR	KR-2-41	2-068-015	2-1SI-0270-C-02	13	R1.16E	R-A	96E-03	UT	N-UT-64	ALTSS	12.00	0.569	HDR	BRCN
RECIR	KR-2-41	2-068-015	2-ISI-0270-C-02	13	NU0313	Е	B02-02	UT	N-UT-64	ALTSS	12.00	0.569	HDR	BRCN
RECIR	KR-2-50	2-068-016	2-ISI-0270-C-02	13	R1.16C	R-A	96E-03	UT	N-UT-64	ALTSS	28.00	1.138	P	EL
RECIR	KR-2-50	2-068-016	2-ISI-0270-C-02	13	NU0313	С	B02-02	UT	N-UT-64	ALTSS	28.00	1.138	P	EL
RECIR	KR-2-51	2-068-016	2-ISI-0270-C-02	13	R1.16C	R-A	96E-03	UT	N-UT-64	ALTSS	28.00	1.138	P	EL
RECIR	KR-2-51	2-068-016	2-ISI-0270-C-02	13	NU0313	С	B02-02	UT	N-UT-64	ALTSS	28.00	1.138	P	EL
RHRS	2-47B452S0239		2-ISI-0276-C-01	13	F1.10C	F-A	96E-03	VT-3	N-VT-1		20.00		VAR SUP	
RHRS	2-47B452S0239-IA		2-ISI-0276-C-01	13	B10.20	B-K	96E-03	PT	N-PT-9			0.750	WLD ATT	
RHRS	DRHR-2-03	2-074-002	2-ISI-0221-C-01	13	R1.16D	R-A	96E-03	UT	N-UT-64	ALTSS	24.00	1.219	VERT LS	P
RHRS	DRHR-2-03	2-074-002	2-ISI-0221-C-01	13	NU0313	D	B02-02	UT	N-UT-64	ALTSS	24.00	1.219	VERT LS	P
RHRS	DRHR-2-03B	2-074-005	2-ISI-0221-C-01	13	R1.16G	R-A	96E-03	VT-2	N-VT-4		24.00	1.219	Ρ,	P
RHRS	DRHR-2-03B	2-074-005	2-ISI-0221-C-01	13	NU0313	G	B02-02	VT-2	N-VT-4		24.00	1.219	P	P
RHRS	DRHR-2-11		2-MSG-0018-C-09	13	NU0313	D	B02-02	UT	N-UT-82	ALTSS	24.00	1.531	P	VLV
RHRS	DRHR-2-13B	2-074-013	2-ISI-0221-C-01	13	R1.16G	R-A	96E-03	VT-2	N-VT-4		24.00	1.219	P	P
RHRS	DRHR-2-13B	2-074-013	2-ISI-0221-C-01	13	NU0313	G	B02-02	VT-2	N-VT-4		24.00	1.219	P	P
RHRS	DSRHR-2-06		2-ISI-0221-C-01	13	NU0313	C	B02-02	UT	N-UT-64	ALTSS	24.00	1.219	P	P
RHRS	DSRHR-2-06		2-ISI-0221-C-01	13	TS3432	B-J	B04-02	UT	N-UT-64	ALTSS	24.00	1.219	P	P
RHRS	DSRHR-2-09	2-074-007	2-ISI-0221-C-01	13	R1.16C	R-A	96E-03	UT	N-UT-64	ALTSS	20.00	1.031	TEE	EL
RHRS	DSRHR-2-09	2-074-007	2-ISI-0221-C-01	13	NU0313	С	B02-02	UT	N-UT-64	ALTSS	20.00	1.031	TEE	EL
RPV	NIO-SE		2-ISI-0380-C-01	13	N/A	BWRVIP-27	B07-02	VT-2	N-VT-4		1.5	0.218	SE	NOZ
RPV	NIIA-SE		2-ISI-0383-C-01	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	SE	P
RPV	NIIB-SE		2-ISI-0383-C-02	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	SE	P
RPV	N12A-SE		2-ISI-0383-C-01	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	SE	P
RPV	N12B-SE		2-ISI-0383-C-02	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	P	PC,PIPE
RPV	N-16A-SE		2-ISI-0383-C-01	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.218	NOZ	SE
RPV	N-16B-SE		2-ISI-0383-C-02	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	NOZ	SE
RPV	RCRD-2-33		2-ISI-0272-C-01	13	NU0313	D	B02-02	UT	N-UT-82	ALTSS	4.00	0.674	NOZ	CAP
RWCUS	RCRD-2-50	2-085-031	2-ISI-0272-C-01	13	R1.16D	R-A	96E-03	UT.	N-UT-82	ALTSS	4.00	0.432	EL	VLV

SORT ORDER: SYSTEM-WELDNO

SYSTEM WELDNO	SEGMENT ISONO	CYCLE	ITEMNO	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESB
RWCUS RCRD-2-50	2-085-031 2-ISI-0272-C-01	13	NU0313	D	B02-02	UT	N-UT-82	ALTSS	4.00	0.432	EL	VLV
RWCUS RWC-2-001-G002	2-069-003 2-ISI-0272-C-01	13	R1.16A	R-A	96E-03	UT	N-UT-82	ALTSS	04.00	0.337	PC.VLV	PC.EL

SORT ORDER: SYSTEM-WELDNO

Page 3 of 3

Sam Flood, ANI/ANII, PEC-1C, BFN

BROWNS FERRY NUCLEAR PLANT (BFN) – UNIT 2 CYCLE 13 REFUELING OUTAGE INSERVICE INSPECTION (ISI) SCAN PLAN REV 001

Attached for your review is the BFN Unit 2 Cycle 13 Refueling Outage ISI Scan Plan, Revision 001, for the examinations to be performed for the current Unit 2 outage by BFN Site Engineering/Components Engineering. These examinations are being performed to satisfy the requirements of ASME Section XI Code, 1995 Edition, 1996 Addenda.

This document was prepared by Harold E. Hodges of BFN Components Engineering and coordinated with Matthew Welch and Fred Froscello of TVAN Inspection Services Organization (ISO).

Whales shahous

Harold E. Hodges ISI Engineer

BFN Components Engineering

Frederick W/Froscello Jr. /

BFN ISO, NDE Specialist - ISI

Kevin L. Groom

Matthew C. Welch

BFN ISO, NDE Level III

BFN Materials Engineering Supervisor,

Mechanical Nuclear

Sam Flood ANI/ANII

Concurrence

cc: R. K. Golub, SAB-1B, BFN

M. L. Tumbow, STC-11, SQN

Revision 001 04/21/2005

Total Examinations: 114

TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 EXAMS SCHEDULED FOR CYCLE 13

SYSTEM	I WELDNO	SEGMENT	ISONO	CYCLE	ПЕМНО	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESB
CSS	2-47B458S0004-IA		2-ISI-0280-C-01	13	B10.20	в-к	96E-03	MT	N-MT-6			0.750	WLD ATT	
CSS	2-SI-3.3.6		N/A	13	C7.30	С-Н	96E-03	VT-2	N-VT-4				SYSLEAK	
CSS	2-S1-3.3.6		N/A	13	C7.50	C-H	96E-03	VT-2	N-VT-4				SYSLEAK	
CSS	2-SI-3.3.6		N/A	13	C7.70	C-H	96E-03	VT-2	N-VT-4				SYSLEAK	
FWS	2RFW2A-17R	2-003-036	2-ISI-0269-C-01	13	R1.18	R-A	96E-03	UT	N-UT-26	01-7471	20	1.281	RED	
FWS	2RFW2A-39E	2-003-039	2-ISI-0269-C-01	13	R1.18	R-A	96E-03	UT	N-UT-26	01-7471	12	1.012	EL	
FWS	2RFW2A-41E	2-003-039	2-ISI-0269-C-01	13	R1.18	R-A	96E-03	UT	N-UT-26	04-8732	12	0.844	EL	
FWS	2RFW2B-14R	2-003-040	2-ISI-0269-C-01	13	R1.18	R-A	96E-03	UT	N-UT-26	04-8732	24	1.531	RED	
FWS	2RFW5A1-1N	2-003-044	2-FAC-003-005-0	1 13	R1.18	R-A	96E-03	VIS	BOP-VT-2	N/A	18	0.938	NOZ	
FWS	2RFW5A1-2E	2-003-044	2-FAC-003-005-0	1 13	R1.18	R-A	96E-03	VIS	BOP-VT-2	N/A	18	0.938	EL	
FWS	GFW-2-12		2-ISI-0269-C-01	13	TS3432	B-J	B04-02	UT	N-UT-76	WB-78	12.75	0.844	TEE	P
FWS	GFW-2-29		2-ISI-0269-C-01	13	TS3432	B-J	B04-02	UT	N-UT-76	WB-78	12.75	0.844	TEE	P
HPCIS	2-47B455H0048		ISI-0275-C-01	13	F1.10C	F-A	96E-03	VT-3	N-VT-1		10.00		VAR SUP	
HPCIS	HPCI-2-004-009		ISI-0128-C-02	13	C5.51	C-F-2	P95-96	PT	N-PT-9		10.00	0.719	EL	VLV
HPCIS	HPCI-2-004-009		ISI-0128-C-02	13	C5.51	C-F-2	P95-96	UT	N-UT-76	WB-78	10.00	0.719	EL	VLV
MSS	2-47B400S0006		2-ISI-0279-C-02	13	F1.10B	F-A	P95-96	VT-3	N-VT-I		26.00		RGD HGR	
MSS	2-47B400S0007		2-ISI-0279-C-02	13	F1.10B	F-A	P95-96	VT-3	N-VT-1		26.00		RGD HGR	
MSS	2-47B400S0014		2-ISI-0279-C-02	13	F1.10C	F-A	96E-03	VT-3	N-VT-1		26.00		VAR SUP	
MSS	2-47B400S0014-JA		2-ISI-0279-C-02	13	B10.20	B-K	96E-03	MT	N-MT-6			0.500	WLD ATT	
MSS	2-47B400S0102		2-ISI-0279-C-02	13	F1.10D	F-A	96E-03	VT-3	N-VT-1		26.00		SNBR	
MSS	2-47B400S0201		2-ISI-0279-C-01	13	F1.10D	F-A	96E-03	VT-3	N-VT-1		26.00		SNBR	
MSS	2MSZ-MS1A-9FN	2-001-036	2-ISI-0222-C-01	13	R1.18	R-A	96E-03	UT	N-UT-26	01-7473	26	1.012	NOZ BR	
MSS	2MSZ-MS2B-20E	2-001-046	2-MSG-0021-C-0	1 13	R1.18	R-A	96E-03	UT	N-UT-26	01-7478	24	1.219	EL	
MSS	2MSZ-MS2C-8E	2-001-038	2-ISI-0222-C-02	13	R1.18	R-A	96E-03	UT	N-UT-26	01-7472	26	1.012	EL	
MSS	2MSZ-MS2C-9FN	2-001-038	2-ISI-0222-C-02	13	R1.18	R-A	96E-03	UT	N-UT-26	04-8727	26	1.012	NOZ BR	
MSS	2-SI-3.3.1.C		N/A	13	C7.30	С-Н	96E-03	VT-2	N-VT-4				SYSLEAK	
MSS	2-SI-3.3.1.C		N/A	13	C7.70	C-H	96E-03	VT-2	N-VT-4				SYSLEAK	
MSS	GMS-2-06		2-ISI-0222-C-01	13	TS3432	B-J	B04-02	UT	N-UT-76	WB-78	26.00	0.950	P	EL
MSS	KMS-2-104		2-ISI-0222-C-01	13	TS3432	B-J	B04-02	UT	N-UT-76	WB-78	26.00	0.950	EL	HDR
MSS	MS-2-009-016		2-ISI-0222-C-03	13	B9.40	B-J	P95-96	PT	N-PT-9		3.0	.438	P	VLV
MSS	MSBC-2-03		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-1	N-VT-I				BLTG	
MSS	MSBC-2-12		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-1	N-VT-1				BLTG	
MSS	PCV1-2-030-PBC		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-1	N-VT-1				BLTG	
MSS	PCV1-2-034-PBC		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-1	N-VT-1				BLTG	
MSS	PCV1-2-041-PBC		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-1	N-VT-1				BLTG	
						•								

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SYSTEM	WELDNO	SEGMENT	ISONO	CYCLE	ПЕМНО	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESB
MSS	PCV1-2-042-PBC		2-ISI-0312-B-01	13	B7.50	B-G-2	96E-03	VT-1	N-VT-1				BLTG	
MSS	PCV1-2-179-VBC		2-ISI-0312-B-01	13	B7.70	B-G-2	P95-96	VT-I	N-VT-I				BLTG	
RECIR	2-47B408S0068-IE		2-ISI-0278-C-01	13	F1.40D	F-A	96E-03	VT-3	N-VT-1				SNBR	
RECIR	2-47B408S0068-IE		2-ISI-0278-C-01	13	F1.40D	F-A	P95-96	VT-3	N-VT-1				SNBR	
RECIR	2-47B408S0069-IE		2-ISI-0278-C-01	13	F1.40D	F-A	96E-03	VT-3	N-VT-1				SNBR	
RECIR	2-47B408S0074		2-ISI-0278-C-02	13	F1.10A	F-A	96E-03	VT-3	N-VT-I		22.00		RGD STRT	
RECIR	KR-2-02	2-068-002	2-ISI-0270-C-01	13	R1.16C	R-A	96E-03	UT	N-UT-64	ALTSS	28.00	1.322	EL	P
RECIR	KR-2-02	2-068-002	2-ISI-0270-C-01	13	NU0313	С	B02-02	UT	N-UT-64	WB-85	28.00	1.322	EL	P
RECIR	KR-2-03	2-068-002	2-ISI-0270-C-01	13	R1.16C	R-A	96E-03	UT	N-UT-64	WB-85	28.00	1.322	P	TEE
RECIR	KR-2-03	2-068-002	2-ISI-0270-C-01	13	NU0313	С	B02-02	UT	N-UT-64	WB-85	28.00	1.322	P	TEE
RECIR	KR-2-14	2-068-003	2-ISI-0270-C-01	13	R1.16E	R-A	96E-03	UT	N-UT-64	WB-85	12.00	0.569	HDR	BRCN
RECIR	KR-2-14	2-068-003	2-ISI-0270-C-01	13	R1.16E	R-A	96E-03	UT	N-UT-65	ISI-165	12.00	0.569	HDR	BRCN
RECIR	KR-2-14	2-068-003	2-ISI-0270-C-01	13	NU0313	Е	B02-02	UT	N-UT-64	WB-85	12.00	0.569	HDR	BRCN
RECIR	KR-2-14	2-068-003	2-ISI-0270-C-01	13	NU0313	E	B02-02	UT	N-UT-65	ISI-165	12.00	0.569	HDR	BRCN
RECIR	KR-2-36	2-068-015	2-ISI-0270-C-02	13	R1.16E	R-A	96E-03	UT	N-UT-64	WB-85	12.00	0.569	HDR	BRCN
RECIR	KR-2-36	2-068-015	2-ISI-0270-C-02	13	R1.16E	R-A	96E-03	UT	N-UT-65	ISI-165	12.00	0.569	HDR	BRCN
RECIR	KR-2-36	2-068-015	2-ISI-0270-C-02	13	NU0313	E	B02-02	UT	N-UT-64	WB-85	12.00	0.569	HDR	BRCN
RECIR	KR-2-36	2-068-015	2-ISI-0270-C-02	13	NU0313	E	B02-02	UT	N-UT-65	ISI-165	12.00	0.569	HDR	BRCN
RECIR	KR-2-37	2-068-015	2-ISI-0270-C-02	13	R1.16E	R-A	96E-03	UT	N-UT-64	WB-85	22.00	1.030	HDR	CAP
RECIR	KR-2-37	2-068-015	2-ISI-0270-C-02	13	R1.16E	R-A	96E-03	UT	N-UT-65	ISI-165	22.00	1.030	HDR	CAP
RECIR	KR-2-37	2-068-015	2-ISI-0270-C-02	13	NU0313	E	B02-02	UT	N-UT-64	WB-85	22.00	1.030	HDR	CAP
RECIR	KR-2-37	2-068-015	2-ISI-0270-C-02	13	NU0313	E	B02-02	UT	N-UT-65	ISI-165	22.00	1.030	HDR	CAP
RECIR	KR-2-41	2-068-015	2-ISI-0270-C-02	13	R1.16E	R-A	96E-03	UT	N-UT-64	WB-85	12.00	0.569	HDR	BRCN
RECIR	KR-2-41	2-068-015	2-ISI-0270-C-02	13	R1.16E	R-A	96E-03	UT	N-UT-65	ISI-165	12.00	0.569	HDR	BRCN
RECIR	KR-2-41	2-068-015	2-ISI-0270-C-02	13	NU0313	E	B02-02	UT	N-UT-64	WB-85	12.00	0.569	HDR	BRCN
RECIR	KR-2-41	2-068-015	2-ISI-0270-C-02	13	NU0313	E	B02-02	UT	N-UT-65	ISI-165	12.00	0.569	HDR	BRCN
RECIR	KR-2-50	2-068-016	2-ISI-0270-C-02	13	R1.16C	R-A	96E-03	UT	N-UT-64	WB-85	28.00	1.138	P	EL
RECIR	KR-2-50	2-068-016	2-ISI-0270-C-02	13	NU0313	С	B02-02	UT	N-UT-64	WB-85	28.00	1.138	P	EL
RECIR	KR-2-51	2-068-016	2-ISI-0270-C-02	13	R1.16C	R-A	96E-03	UT	N-UT-64	WB-85	28.00	1.138	P	EL
RECIR	KR-2-51	2-068-016	2-ISI-0270-C-02	13	NU0313	С	B02-02	UT	N-UT-64	WB-85	28.00	1.138	P	EL
RHRS	2-47B452S0239		2-ISI-0276-C-01	13	F1.10C	F-A	96E-03	VT-3	N-VT-1		20.00		VAR SUP	
RHRS	2-47B452S0239-IA		2-ISI-0276-C-01	13	B10.20	B-K	96E-03	PT	N-PT-9			0.750	WLD ATT	
RHRS	DRHR-2-03	2-074-002	2-ISI-0221-C-01	13	R1.16D	R-A	96E-03	UT	N-UT-64	WB-85	24.00	1.219	VLV	FH
RHRS	DRHR-2-03	2-074-002	2-ISI-0221-C-01	13	NU0313	D	B02-02	UT	N-UT-64	WB-85	24.00	1.219	VLV	FH
RHRS	DRHR-2-03B	2-074-005	2-ISI-0221-C-01	13	R1.16G	R-A	96E-03	VT-2	N-VT-4		24.00	1.219	P	P
RHRS	DRHR-2-03B	2-074-005	2-ISI-0221-C-01	13	NU0313	G	B02-02	VT-2	N-VT-4		24.00	1.219	P	P
RHRS	DRHR-2-11		2-MSG-0018-C-0	9 13	NU0313	D	B02-02	UT	N-UT-82	WB-85	24.00	1.531	P	VLV
RHRS	DRHR-2-13B	2-074-013	2-ISI-0221-C-01	13	R1.16G	R-A	96E-03	VT-2	N-VT-4		24.00	1.219	P	P
RHRS	DRHR-2-13B	2-074-013	2-ISI-0221-C-01	13	NU0313	G	B02-02	VT-2	N-VT-4		24.00	1.219	P	P
RHRS	DSRHR-2-06		2-ISI-0221-C-01	13	NU0313	С	B02-02	UT	N-UT-64	WB-85	24.00	1.219	P	P

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SYSTEM	WELDNO	SEGMENT	ISONO	CYCLE	ITEMNO	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESB
RHRS	DSRHR-2-06		2-ISI-0221-C-01	13	TS3432	B-J	B04-02	UT	N-UT-64	WB-85	24.00	1.219	P	P
RHRS	DSRHR-2-09	2-074-007	2-ISI-0221-C-01	13	R1.16C	R-A	96E-03	UT	N-UT-64	WB-85	20.00	1.031	TEE	EL
RHRS	DSRIIR-2-09	2-074-007	2-ISI-0221-C-01	13	NU0313	С	B02-02	UT	N-UT-64	WB-85	20.00	1.031	TEE	EL
RHRSW	2-SI-3.3.13		N/A	13	D2.30	D-B	96E-03	VT-2	N-VT-4				SYSLEAK	
RHRSW	2-SI-3.3.13		N/A	13	D2.50	D-B	96E-03	VT-2	N-VT-4				SYSLEAK	
RHRSW	2-SI-3.3.13		N/A	13	D2.70	D-B	96E-03	VT-2	N-VT-4				SYSLEAK	
RPV	2-SI-3.3.1.A		N/A	13	B15.10	B-P	96E-03	VT-2	N-VT-4				SYSLEAK	
RPV	2-SI-3.3.1.A		N/A	13	B15.50	B-P	96E-03	VT-2	N-VT-4				SYSLEAK	
RPV	2-SI-3.3.1.A		N/A	13	B15.60	B-P	96E-03	VT-2	N-VT-4				SYSLEAK	
RPV	2-SI-3.3.1.A		N/A	13	B15.70	B-P	96E-03	VT-2	N-VT-4	N/A			SYSLEAK	
RPV	ACCESS HOLE COVER		2-CHM-2046-C-02	2 13	N/A	N/A	OT1365	EVT-1	VENDOR VT				INT	
RPV	JET PUMPS			13	N/A	N/A	OT1365	UT	VENDOR UT					
RPV	JET PUMPS			13	N/A	N/A	OTI365	VT-1	VENDOR VT					
RPV	N10-SE		2-ISI-0380-C-01	13	N/A	BWRVIP-27	B07-02	VT-2	N-VT-4		1.5	0.218	SE	NOZ
RPV	NIIA-SE		2-ISI-0383-C-01	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	SE	P
RPV	N11B-SE		2-ISI-0383-C-02	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	SE	P
RPV	N12A-SE		2-ISI-0383-C-01	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	SE	P
RPV	N12B-SE		2-ISI-0383-C-02	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	P	PC,PIPE
RPV	N-16A-SE		2-ISI-0383-C-01	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.218	NOZ	SE
RPV	N-16B-SE		2-ISI-0383-C-02	13	N/A	BWRVIP-49	B07-02	VT-2	N-VT-4		2.00	0.250	NOZ	SE
RPV	RCRD-2-33		2-ISI-0272-C-01	13	NU0313	D	B02-02	UT	N-UT-82	WB-85	4.00	0.674	NOZ	CAP
RPV	RPV CORE PLATE		2-CHM-2046-C-02	2 13	N/A	N/A	OTI365	VT-3	VENDOR VT				INT	
RPV	RPV CORE SUPPORT		2-CHM-2046-C-02	2 13	B13.40	B-N-2	96E-03	VT-3	VENDOR VT				INT	
RPV	RPV CR GUIDE TUBES		2-CHM-2046-C-02	2 13	N/A	N/A	OT1365	VT-1E	VENDOR VT				INT	
RPV	RPV CR GUIDE TUBES		2-CHM-2046-C-02	2 13	N/A	N/A	OTI365	VT-3	VENDOR VT				INT	
RPV	RPV CS PIPING		2-CHM-2046-C-02	2 13	N/A	N/A	OT1365	UT	VENDOR UT	1	6.000		INT	
RPV	RPV CS PIPING		2-CHM-2046-C-02	2 13	N/A	N/A	OT1365	VT-3	VENDOR VT	•	6.000		INT	
RPV	RPV CS PIPING		2-CHM-2046-C-02	2 13	N/A	N/A	OTI365	EVT-1	VENDOR VT	1	6.000		INT	
RPV	RPV INT ATT NBLR		2-CHM-2046-C-0	2 13	B13.30	B-N-2	96E-03	VT-3	VENDOR VT	•			INT	
RPV	RPV INT ATT NBLR		2-CHM-2046-C-0	2 13	B13.40	B-N-2	96E-03	VT-3	VENDOR VT	•			INT	
RPV	RPV SHROUD WELD H-9)	2-CHM-2046-C-0	2 13	N/A	N/A	OT1365	UT	VENDOR UT	BF-18			INT	
RPV	RPV SHROUD WELD H-9)	2-CHM-2046-C-0	2 13	N/A	N/A	0TI365	EVT-1	VENDOR VT	•			INT	
RPV	RPV STEAM DRYER		2-CHM-2046-C-0	2 13	N/A	N/A	OTI365	VT-I	VENDOR VT	•			INT	
RPV	RPV STEAM DRYER		2-CHM-2046-C-0	2 13	N/A	N/A	OT1365	VT-3	VENDOR VT	•			INT	
RPV	RPV-INTERIOR		2-CHM-2046-C-0	2 13	B13.10	B-N-1	96E-03	VT-3	VENDOR VT				INT	
RWCUS	FCV-69-002		2-ISI-0272-C-01	13	B12.50	B-M-2	96E-03	VT-3	N-VT-1		06.00		INT	
RWCUS	RCRD-2-50	2-085-031	2-ISI-0272-C-01	13	R1.16D	R-A	96E-03	UT	N-UT-82	WB-85	4.00	0.432	EL.	VLV
RWCUS	RCRD-2-50	2-085-031	2-ISI-0272-C-01	13	NU0313	D	B02-02	UT	N-UT-82	WB-85	4.00	0.432	EL	VLV
RWCUS	RWC-2-001-G002	2-069-003	2-ISI-0272-C-01	13	R1.16A	R-A	96E-03	UT	N-UT-82	WB-85	04.00	0.337	PC,VLV	PC,EL

SORT ORDER: SYSTEM-WELDNO

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BFN SCAN PLAN REVISION LOG

CYCLE		SYSTEM	COMPONENT IDENTIFIER	AŞME XI	REVISION	REASON FOR REVISION	BY ISUNDE	BY NDE LEVEL III SIGN AND DATE	ISI DATA BASE REVISED BY ISO SIGN AND DATE	ISI DATA BASE REVISION VERIFIED BY ISI/NDE SIGN AND DATE
7/13	001	HPC15	HR1-2-004-009	Y	CHANGE SCHEDULED EXAM AND PROCEDURE FROM MT, N-MT-6 TO PT, N-PT-9	PT EXAM WAS REQUESTED BY WELDING ENGINEBRING	3/23/205	Wallalos	Walter States	Parales
2/13	iς	M55	2MSZIA- HOR	Y -	DELETE 2MSZIA-HDR FROM UZCI3 BFN SCHEDULED EXAMS EXREQ - VIS NOE ROC - N-VT-14	Not Zeguired by ENGINCETING Decision, Conditional Assessment.	12/2027 3/20/2027	1/4/23/16/05	maria de s	10 5 10 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2/13	00)	RPV	PARTIAL EXAM OF TOTAL COMPONENT POPULATION.	7	ADD EXAM CATEGORY B-N-) ITEM B13.10, AND. CATEGORY B-N-Z, ITEM B13.40.	TO DOLUMENT CODE EXAMS PERFORMED THIS RFO	Holy 3/21/205	Markilos	War dos	12/27/05
2/13	001	WSS	MS-2-009-016	Y	ADD CONFONENT AS FOLLOWS: CATEGORY - BJ EXREQ - P95 - 96 ITEM - B9.40 NDEPROC- N-PT-9	PRESERVICE EXAM	12/130/05	War well or	Wally stales	3/4/5
yrs	ool	N55	Z-478400\$0007	Y	REMOVE EXAM FOR EXTER 9LE-03 AND ENTER IN RFOCIY	TO BE PERFORMED IN UZCI4 RFO.	11/19/05	Markelos	1/2/1/2/0°	TW Way

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BFN SCAN PLAN REVISION LOG

UNIT/ CYCLE	SCAN PLAN REV.	SYSTEM	COMPONENT IDENTIFIER	ASME XI	REVISION	REASON FOR REVISION	APPROVED BY ISI/NDE SIGN AND DATE	APPROVED BY NDE LEVEL III SIGN AND DATE	ISI DATA BASE REVISED BY ISO SIGN AND DATE	ISI DATA BASE REVISION VERIFIED BY ISI/NDE SIGN AND DATE
2/13	ol	RWCU	2-FCV-69-002	7	ADD COMPONENT TO VICI3 RFO: CATESORY: B-M-2 ITEM: B12.50 EXREQ: 96E-03 NDG PROC: N-VT-1/VT-2	UZC13 RFU EMERGENT WORK. CATEGORY: C-H 175M: C7:30, C7:70 NOE PROC: N-VT-4 MT/104	It lakes Hzlzws	Mariles	markel of	1000 05 1100 05
413	01	C55	2-51-3,3,6		ADD COMPONENT TO UZCIB RFD: CATEGORY: C-H ITEM: C7.30, C7.50, C7.70 NDE PROC: N-VT-4/MY-2 EXRED: 96EBB	COMPLETED HYDRO	12/265 4/2/2005	Marylos	Werthos-	Production of the second
43	ol	MSS	2-51-3.3.1.4		ADD COMPONENT TO UZCI3 RFO: CATEGORY: CH ITEM: C7.30, C7.70 NOE PROC: N-VI-4/VT2- EXREA: 96E03	COMPLETED HYDRU	12/20x	1/1/0°2	Menshlor.	Marily of the state of the stat
413	1	RPV	Z-5I-3.3.1.A		ADD COMPONENT TO UZCI3 RFD: CATEGORY: B-P ITEMS: BIS.10, BIS.50, BIS.60; BIS.20 NDE PROC: N-VT-4/VT2 EXREQ: 96.603	COMPLETED HYDRO		Mary 1/0°	Marilas	Dielle II
2/34	ol	RHRSW	2-5I-3.3.13		ADD COMPONENT TO UZCI3 RFO: CATERORY: D-B ITEMS: DZ. 30, DZ.50, DZ.70 NDE PROC: N-VT-4/VTZ EXREQ: 96E03	COMPLETED HYDRO	12/2005	May what	Man Kulos	Sister Control

H SCAN PLAN REV LOG XLS

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BFN SCAN PLAN REVISION LOG

CYCLE	SCAN PLAN REV.	SYSTEM	COMPONENT IDENTIFIER	ASME XI	REVISION	REASON FOR REVISION		APPROVED BY NDE LEVEL III SIGN AND DATE	ISI DATA BASE REVISED BY ISO SIGN AND DATE	ISI DATA BASE REVISION VERIFIED BY ISINDE SIGN AND DATE
2/13	01	RHRS	Z-5I-3.3,8.A	ý	APP COMPONENT TO UZCI3 RFO: CATEGORY: C-H ITEMS: C7.30,C7.50,C7.70 NDE PROC: N-VT-4/VT-2 EXREQ: 96ED2	COMPLETED HYDRO	h.llalg2 412/2005	Martilest Port	Many Max	fw. which
ટીઝ	01	M ⁴⁵	PCV 1-2-179-VBC	Y	ADD COMPONENT TO UZCI3 RFO: CATEGORY: BG2 ITEM: B7.70 NDE PRIC: N-VT-I/VT-I EXREQ: P95-96	Anded Scope	h mgz 4/2/2015	Mary lex	Mary Joh	14/05 14/05
2/13	ol	R7V	RPVINT ATTICHENTS BEYOND BRITINE	Y	AVD COMPONENT TO UZCI3 RFO: CATEBORY: B-N-Z THEM: B13.30 NOTE PROC: VENDOR UT FXREQ: 96 EOZ	UPDATE OF NEMS	12/14/05	Mary alos	Mary Hos	Arthon Land
2/13	ol	RELIPC	Z-478406\$0068	1	APIT COMPONENT TO UZCIS RFO: CATEGORY: FA ITEM: ELLHOD FI.40D #WAY EXRED: P95-91 NDE PROC: N-NT-1/VT3	PSI RE: WO 04-718364-000	h/hg~ 4/12/205	Marifilos	Manyhilos	124305
4/15	ol	pwcu	2-FeV-69-002	Y	Change exam From VT-1 to VT-3	Typo-ERROR.	11/1245 4/17/245	184 1878 S	Marilish .	10-000 11/15/05

H SCAN PLAN REV LOG XLS

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BFN SCAN PLAN REVISION LOG

UNIT/ CYCLE	SCAN PLAN REV.	SYSTEM	COMPONENT IDENTIFIER	ASME XI	REVISION	REASON FOR REVISION	APPROVED BY ISI/NDE SIGN AND DATE	APPROVED BY NDE LEVEL III SIGN AND DATE	ISI DATA BASE REVISED BY ISO SIGN AND DATE	ISI DATA BASE REVISION VERIFIED BY ISINDE SIGN AND DATE
2/13	61	RHRS	2-5I-3.3.8.A	Y	2-51-3,3,8,A Remove Component from 42c13 Outage CATEGORY C-H IT#C7.30 C7.50,C7.70	Hydro to be per- formel in 2006 of September	Stephillud)		History History	And dot
2)13	ol	Recipo	GR-2-15(04)	y	Remove Component GR-2-15(OL) Feom UZC13 CUTAGE CATEGORY R-A IT#PI.16E & E/NUREG-0313 GLE-03 BO2-02	Invalio EXAM Perence PERE 80950	alialos	M. 21.965	Juleur - Guling Uldos	Fill who

H SCAN PLAN REV LOG XLS

PAGE 4 OF 4

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000

DECATUR, ALABAMA 35609-2000

EXAM REQUIREMENT: 96E-03

195-96

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

CSS 2-47B458S0004-IA 2-ISI-0280-C-01 CSS 2-SI-3.3.6 N/A FWS 2RFW2A-17R 2-ISI-0269-C-01 FWS 2RFW2A-39E 2-ISI-0269-C-01 FWS 2RFW2A-41E 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01	96E-03	в∙к						Results	
CSS 2-SI-3.3.6 N/A FWS 2RFW2A-17R 2-ISI-0269-C-01 FWS 2RFW2A-39E 2-ISI-0269-C-01 FWS 2RFW2A-41E 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01			B10.20	MT		20050401	R-039	Р	MAGNETIC FIELD INDICATOR USED.
CSS 2-SI-3.3.6 N/A CSS 2-SI-3.3.6 N/A CSS 2-SI-3.3.6 N/A CSS 2-SI-3.3.6 N/A FWS 2RFW2A-17R 2-ISI-0269-C-01 FWS 2RFW2A-39E 2-ISI-0269-C-01 FWS 2RFW2A-41E 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01	96E-03	С-Н	C7.30	VT-2		20031017	R-002	P	
CSS 2-SI-3.3.6 N/A CSS 2-SI-3.3.6 N/A CSS 2-SI-3.3.6 N/A FWS 2RFW2A-17R 2-ISI-0269-C-01 FWS 2RFW2A-39E 2-ISI-0269-C-01 FWS 2RFW2A-41E 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01	96E-03	С-Н	C7.30	VT-2		20030711	R-001	P	
CSS 2-SI-3.3.6 N/A CSS 2-SI-3.3.6 N/A FWS 2RFW2A-17R 2-ISI-0269-C-01 FWS 2RFW2A-39E 2-ISI-0269-C-01 FWS 2RFW2A-41E 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01	96E-03	С-Н	C7.50	VT-2		20030711	R-001	Р	LOOPI
CSS 2-SI-3.3.6 N/A FWS 2RFW2A-17R 2-ISI-0269-C-01 FWS 2RFW2A-39E 2-ISI-0269-C-01 FWS 2RFW2A-41E 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01	96E-03	С-Н	C7.50	VT-2		20031017	R-002	Р	
FWS 2RFW2A-17R 2-ISI-0269-C-01 FWS 2RFW2A-39E 2-ISI-0269-C-01 FWS 2RFW2A-41E 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01	96E-03	С-Н	C7.70	VT-2		20031017	R-002	Р	CORE SPRAY LOOP II
FWS 2RFW2A-39E 2-ISI-0269-C-01 FWS 2RFW2A-41E 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01	96E-03	С-Н	C7.70	VT-2		20030711	R-001	P	LOOPI
FWS 2RFW2A-41E 2-ISI-0269-C-01 FWS 2RFW2B-14R 2-ISI-0269-C-01	. 96 E-03	R-A	R1.18	UT	01-7471	20050404	R-056	Р	0-TI-140 REV. 01
FWS 2RFW2B-14R 2-ISI-0269-C-01	96E-03	R-A	R1.18	UT	01-7471	20050404	R-059	P	0-TI-140 REV. 01
	96E-03	R-A	R1.18	UT	04-8732	20050404	R-061	P	0-TI-140, REV. 01
FWS 2RFW5A1-1N 2-FAC-003-005-01	96E-03	R-A	R1.18	UT	04-8732	20050404	R-060	Р	0-TI-140 REV. 01
	1 96E-03	R-A	R1.18	VIS	N/A	20050324	R-064	Р	0-TI-140, REV. 01. EXAMINER LESLIE JOHNSO
FWS 2RFW5A1-2E 2-FAC-003-005-01	1 96E-03	R-A	R1.18	VIS	N/A	20050324	R-064	P	0-TI-140, REV. 01. EXAMINER LESLIE JOHNSON
HPCIS 2-47B455H0048 ISI-0275-C-01	96E-03	F-A	F1.10C	VT-3		20050401	R-040	R	
HPCIS HPCI-2-004-009 ISI-0128-C-02	P95-96	C-F-2	C5.51	PT		20050317	R-008	Р	Valve 2-FCV-73-35. W.O. 03-006432-000
HPCIS HPCI-2-004-009 ISI-0128-C-02	P95-96	C-F-2	C5.51	UT	WB-78	20050321	R-009	P	Valve 2-FCV-73-35. W.O. 03-006432-000
MSS 2-47B400S0006 2-ISI-0279-C-02	P95-96	F-A	F1.10B	VT-3		20050401	R-044	Р	W.O. 04-717654-000
MSS 2-47B400S0007 2-ISI-0279-C-02	P95-96	F-A	F1.10B	VT-3		20050401	R-045	Р	W.O 04-717654-000
MSS 2-47B400S0014 2-ISI-0279-C-02	96E-03	F-A	F1.10C	VT-3		20050330	R-032	Р	
MSS 2-47B400S0014-IA 2-ISI-0279-C-02	96E-03	В-К	B10.20	MT		20050330	R-033	Р	Used magnetic field indicator.
MSS 2-47B400S0102 2-ISI-0279-C-02	96E-03	F-A	F1.10D	VT-3		20050330	R-030	P	REFERENCE RFR# 2-ISI-13
MSS 2-47B400S0201 2-ISI-0279-C-01	96E-03	F-A	F1.10D	VT-3		20050330	R-031	Р	REFERENCE RFR# 2-ISI-13

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT
PO BOX 2000
DECATUR, ALABAMA 35609-2000

EXAM REQUIREMENT: 96E-03

96E-03 P95-96 UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

System	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
MSS	2MSZ-MS1A-9FN	2-ISI-0222-C-01	96E-03	R-A	R1.18	UT	01-7473	20050404	R-058	P	0-TI-140, REV. 01
MSS	2MSZ-MS2B-20E	2-MSG-0021-C-01	96E-03	R-A	R1.18	UΤ	01-7478	20050404	R-063	P	0-TI-140, REV. 01
MSS	2MSZ-MS2C-8E	2-ISI-0222-C-02	96E-03	R-A	R1.18	UT	01-7472	20050404	R-062	P	0-TI-140, REV. 01
MSS	2MSZ-MS2C-9FN	2-ISI-0222-C-02	96E-03	R-A	R1.18	UT	04-8727	20050404	R-057	P	0-TI-140 REV. 01
MSS	2-SI-3.3.1.C	N/A	96E-03	С-Н	C7.30	VT-2		20040427	R-005	P	
MSS	2-SI-3.3.1.C	N/A	96E-03	С-Н	C7.30	VT-2		20040519	R-006	Р	
MSS	2-SI-3.3.1.C	N/A	96E-03	С-Н	C7.70	VT-2		20040427	R-005	P	
MSS	2-SI-3.3.1.C	N/A	96E-03	С-Н	C7.70	VT-2		20040519	R-006	P	
MSS	MS-2-009-016	2-ISI-0222-C-03	P95-96	B-J	B9.40	PT		20050402	R-049	Р	W. O. 04-720057-000. Valve 2-FCV-1-056
MSS	MSBC-2-03	2-ISI-0312-B-01	96E-03	B-G-2	B7.50	VT-1		20050325	R-018	P	
MSS	MSBC-2-12	2-ISI-0312-B-01	96E-03	B-G-2	B7.50	VT-1		20050326	R-019	P	
MSS	PCV1-2-030-PBC	2-ISI-0312-B-01	96E-03	B-G-2	B7.50	VT-1		20050325	R-012	P	
MSS	PCV1-2-034-PBC	2-ISI-0312-B-01	96E-03	B-G-2	B7.50	VT-1		20050325	R-011	Р	
MSS	PCV1-2-041-PBC	2-ISI-0312-B-01	96E-03	B-G-2	B7.50	VT-1		20050325	R-013	P	
MSS	PCV1-2-042-PBC	2-ISI-0312-B-01	96E-03	B-G-2	B7.50	VT-1		20050325	R-014	Р	
MSS	PCV1-2-179-VBC	2-ISI-0312-B-01	P95-96	B-G-2	B7.70	VT-1		20030505	R-021	P	
RECIR	2-47B408S0068-IE	2-ISI-0278-C-01	P95-96	F-A	F1.40D	VT-3		20050404	R-055	Р	REFERENCE RFR# 2-ISI-13. W.O. 04-718364-00
RECIR	2-47B408S0068-IE	2-ISI-0278-C-01	96E-03	F-A	F1.40D	VT-3		20050327	R-023	Р	REFERENCE RFR# 2-ISI-13
RECIR	2-47B408S0069-IE	2-ISI-0278-C-01	96E-03	F-A	F1.40D	VT-3		20050327	R-024	P	REFERENCE RFR# 2-ISI-13
RECIR	2-47B408S0074	2-ISI-0278-C-02	96E-03	F-A	F1.10A	VT-3		20050331	R-036	P	REFERENCE RFR# 2-ISI-13
RECIR	KR-2-02	2-ISI-0270-C-01	96E-03	R-A	R1.16C	UT	ALTSS				
RECIR	KR-2-03	2-ISI-0270-C-01	96E-03	R-A	R1.16C	UT	WB-85	20050401	R-043	P	

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000

DECATUR, ALABAMA 35609-2000

EXAM REQUIREMENT: 96E-03

P95-96

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

system	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RECIR	KR-2-14	2-ISI-0270-C-01	96E-03	R-A	R1.16E	UT	WB-85	20050402	R-050	Р	
RECIR	KR-2-14	2-ISI-0270-C-01	96E-03	R-A	R1.16E	UΤ	ISI-165	20050403	R-050	P	SIZING UT
RECIR	KR-2-36	2-ISI-0270-C-02	96E-03	R·A	R1.16E	UΤ	ISI-165	20050402	R-047	Þ	SIZING UT
RECIR	KR-2-36	2-ISI-0270-C-02	96E-03	R-A	R1.16E	ŧΙΤ	WB-85	20050401	R-047	P	
RECIR	KR-2-37	2-ISI-0270-C-02	96E-03	R-A	R1.16E	UT	ISI-165	20050401	R-046	Р	SIZING UT
RECIR	KR-2-37	2-ISI-0270-C-02	96E-03	R-A	R1.16E	UT	WB-85	20050331	R-046	Р	
RECIR	KR-2-41	2-ISI-0270-C-02	96E-03	R-A	R1.16E	UT	WB-85	20050330	R-042	P	
RECIR	KR-2-41	2-ISI-0270-C-02	96E-03	R-A	R1.16E	UT	ISI-165	20050330	R-042	Р	SIZING UT
ECIR	KR-2-50	2-ISI-0270-C-02	96E-03	R-A	R1.16C	UT	WB-85	20050331	R-038	P	
ECIR	KR-2-51	2-ISI-0270-C-02	96E-03	R-A	R1.16C	UT	WB-85	20050403	R-051	P	
HRS	2-47B452S0239	2-ISI-0276-C-01	96E-03	F-A	F1.10C	VT-3		20050326	R-017	P	
HRS	2-47B452S0239-1A	2-ISI-0276-C-01	96E-03	в-к	B10.20	PT		20050328	R-026	P	
HRS	DRHR-2-03	2-ISI-0221-C-01	96E-03	R-A	R1.16D	UT	WB-85	20050326	R-022	P	
HRS	DRHR-2-03B	2-ISI-0221-C-01	96E-03	R-A	R1.16G	VT-2		20050410	R-052	P	
HRS	DRHR-2-13B	2-ISI-0221-C-01	96E-03	R-A	R1.16G	VT-2		20050410	R-052	P	
HRS	DSRHR-2-09	2-ISI-0221-C-01	96E-03	R-A	R1.16C	UT	WB-85	20050329	R-027	P	
PV	2-SI-3.3.1.A	N/A	96E-03	В-Р	B15.10	VT-2		20050410	R-052	P	
RPV	2-SI-3.3.1.A	N/A	96E-03	В-Р	B15.50	VT-2		20050410	R-052	P	
IPV	2-SI-3.3.1.A	N/A	96E-03	В-Р	B15.60	VT-2		20050410	R-052	Р	
PV	2-SI-3.3.1.A	N/A	96E-03	В-Р	B15.70	VT-2		20050410	R-052	Р	
PV	2-SI-3.3.1.A	N/A	96E-03	С-Н	C7.30	VT-2		20050410	R-052	Р	
PV	2-SI-3.3.1.A	N/A	96E-03	с-н	C7.70	VT-2		20050410	R-052	P	

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT

PO BOX 2000

DECATUR, ALABAMA 35609-2000

EXAM REQUIREMENT: 96E-03

P95-96

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

System	Component Number	ISO Drawing	Exreq	Category	item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RPV CORE SUPPORT	2-CHM-2046-C-02	96E-03	B-N-2	B13.40	VT-3		20050327	R-054	Р	Partial, Core plate component. Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	RPV INT ATT NBLR	2-CHM-2046-C-02	96E-03	B-N-2	B13.30	VT-3		20050405	R-054	Р	Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	RPV INT ATT NBLR	2-CHM-2046-C-02	96E-03	B-N-2	B13.40	VT-3		20050405	R-054	P	Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	RPV-INTERIOR	2-CHM-2046-C-02	96E-03	B-N-1	B13.10	VT-3		20050405	R-054	Р	Partial Code Credit. Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RWCU	FCV-69-002	2-ISI-0272-C-01	96E-03	B-M-2	B12.50	VT-3		20050331	R-037	P	
RWCU	RCRD-2-50	2-ISI-0272-C-01	96E-03	R-A	R1.16D	UT	WB-85	20050329	R-028	P	
RWCU	RWC-2-001-G002	2-ISI-0272-C-01	96E-03	R-A	R1.16A	UT	WB-85	20050329	R-029	Р	

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35609-2000

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ASME SECTION XI PRESSURE TESTS CLASS 1, 2, AND 3

NUCLEAR POWER GROUP

1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000 DECATUR, ALABAMA 35609-2000

PRESSURE TEST:

B-P C-II

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCII 1, 1975

System	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
css	2-SI-3.3.6	N/A	96E-03	С-Н	C7.30	VT-2		20031017	R-002	Р	
CSS	2-SI-3.3.6	N/A	96E-03	C-H	C7.30	VT-2		20030711	R-001	Р	
css	2-SI-3.3.6	N/A	96E-03	С-Н	C7.50	VT-2		20030711	R-001	P	LOOPI
css	2-S1-3.3.6	N/A	96E-03	С-Н	C7.50	VT-2		20031017	R-002	P	
CSS	2-SI-3.3.6	N/A	96E-03	C-H	C7.70	VT-2		20030711	R-001	Р	LOOPI
css	2-SI-3.3.6	N/A	96E-03	C-H	C7.70	VT-2		20031017	R-002	P	CORE SPRAY LOOP II
MSS	2-SI-3.3.1.C	N/A	96E-03	C-H	C7.30	VT-2		20040519	R-006	P	
MSS	2-S1-3.3.1.C	N/A	96E-03	C-H	C7.30	VT-2		20040427	R-005	Р	
MSS	2-SI-3.3.1.C	N/A	96E-03	C•H	C7.70	VT-2		20040519	R-006	Р	
MSS	2-SI-3.3.1.C	N/A	96E-03	C-H	C7.70	VT-2		20040427	R-005	Р	
RPV	2-SI-3.3.1.A	N/A	96E-03	B-P	B15.10	VT-2		20050410	R-052	P	
RPV	2-SI-3.3.1.A	N/A	96E-03	в-Р	B15.50	VT-2		20050410	R-052	P	
RPV	2-SI-3.3.1.A	N/A	96E-03	в•Р	B15.60	VT-2		20050410	R-052	P	
RPV	2-SI-3.3.1.A	N/A	96E-03	B-P	B15.70	VT-2		20050410	R-052	P	
RPV	2-SI-3.3.1.A	N/A	96E-03	C-H	C7.30	VT-2		20050410	R-052	P	
RPV	2-SI-3.3.1.A	N/A	96E-03	C-H	C7.70	VT-2		20050410	R-052	Р	

OFFICE OF NUCLEAR POWER

P.O. BOX 2000

1101 MARKET STREET

DECATUR, ALABAMA 35609-2000

CHATTANOOGA, TENNESSEE 37402

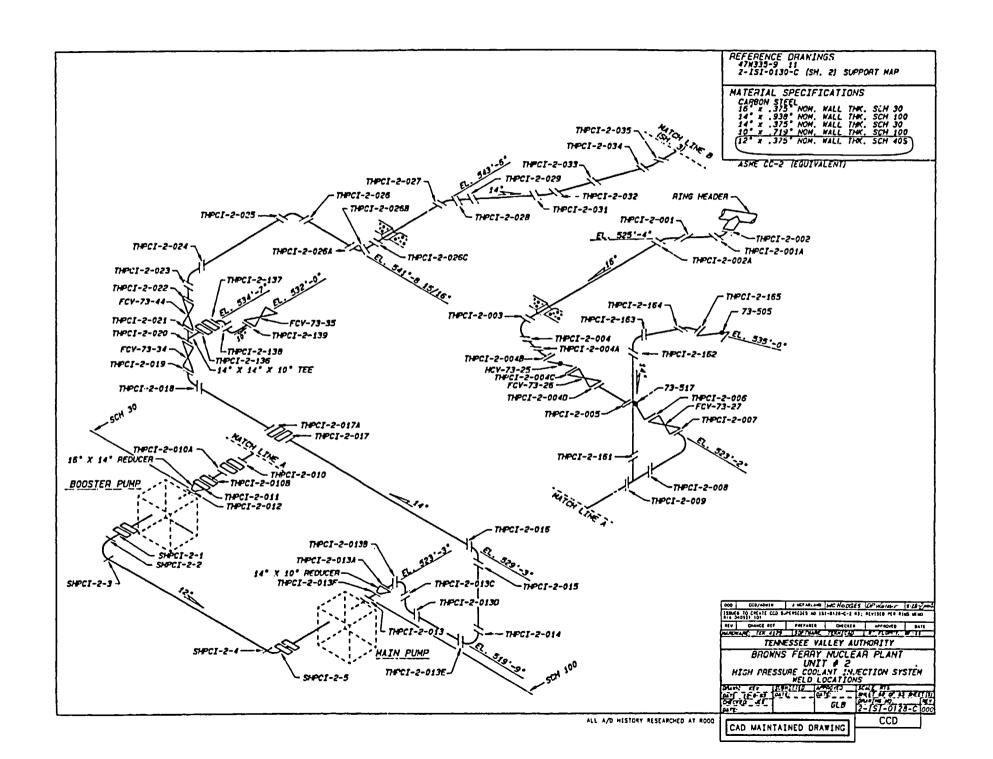
UNIT: TWO

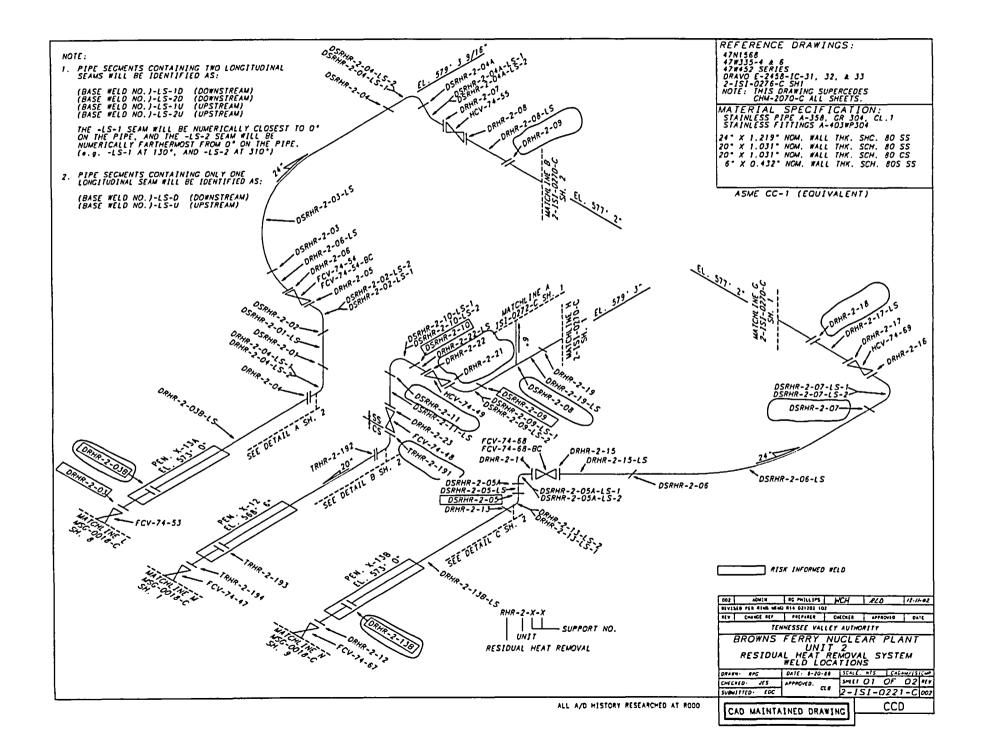
CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

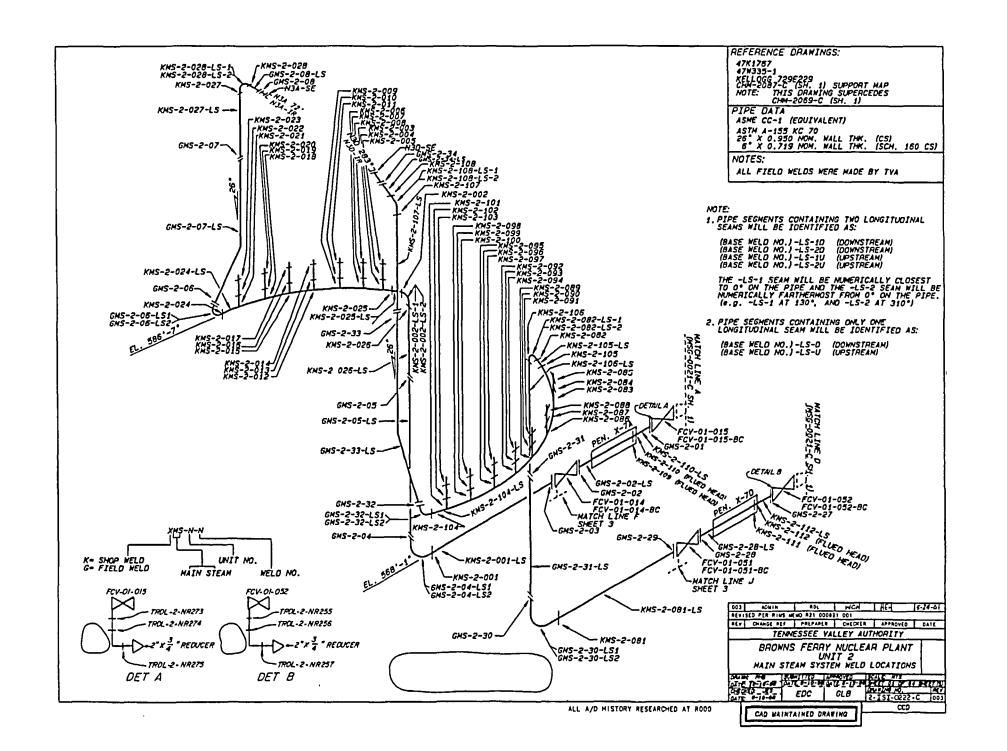
COMMERCIAL SERVICE DATE: MARCH 1, 1975

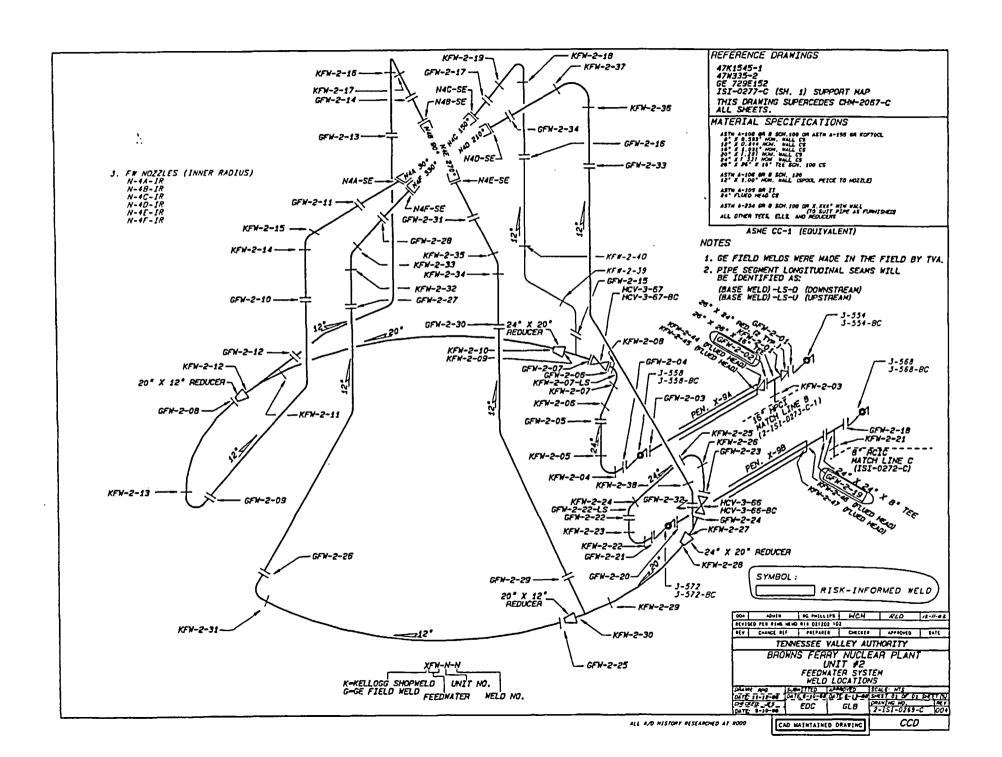
NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

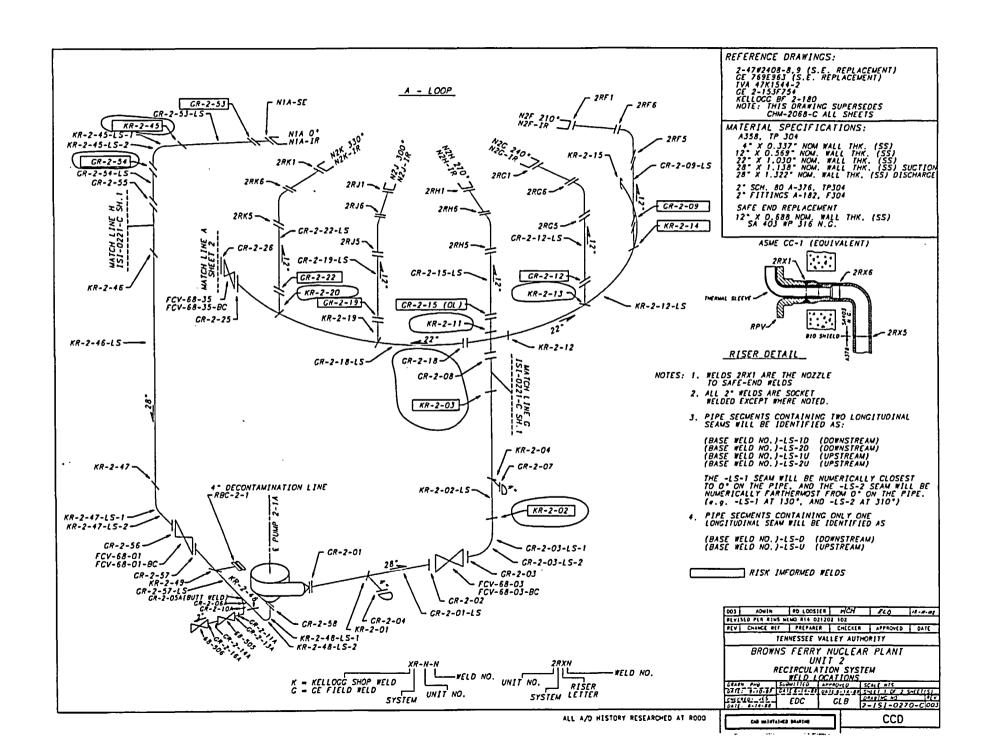
ISOMETRICS FOR COMPONENT LOCATIONS

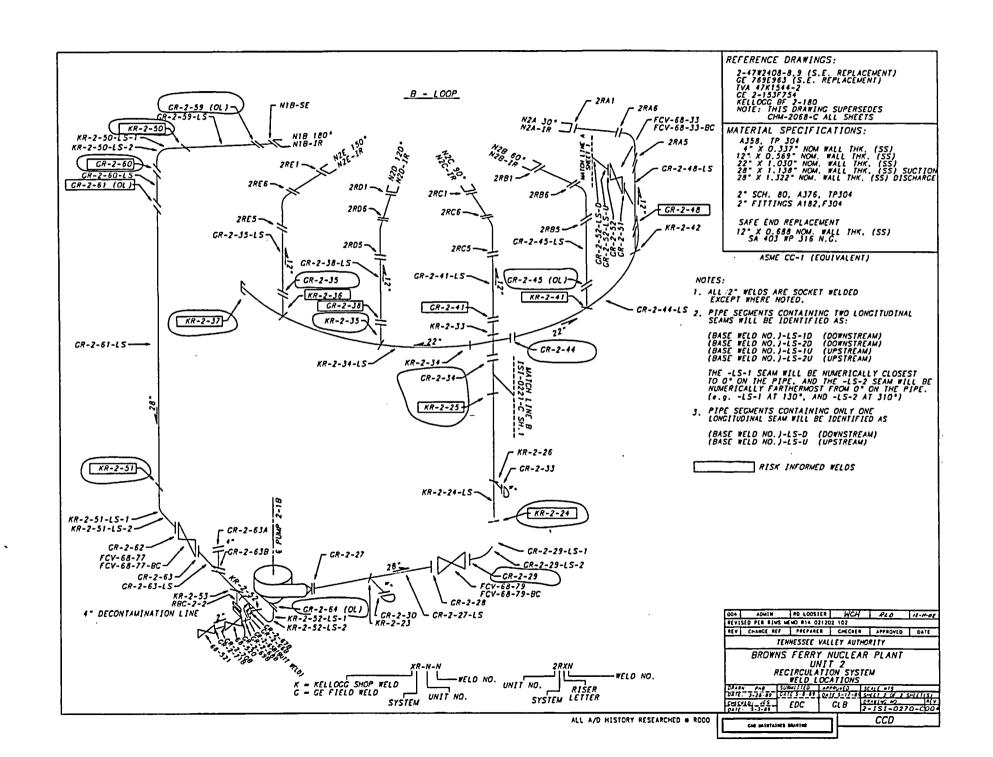


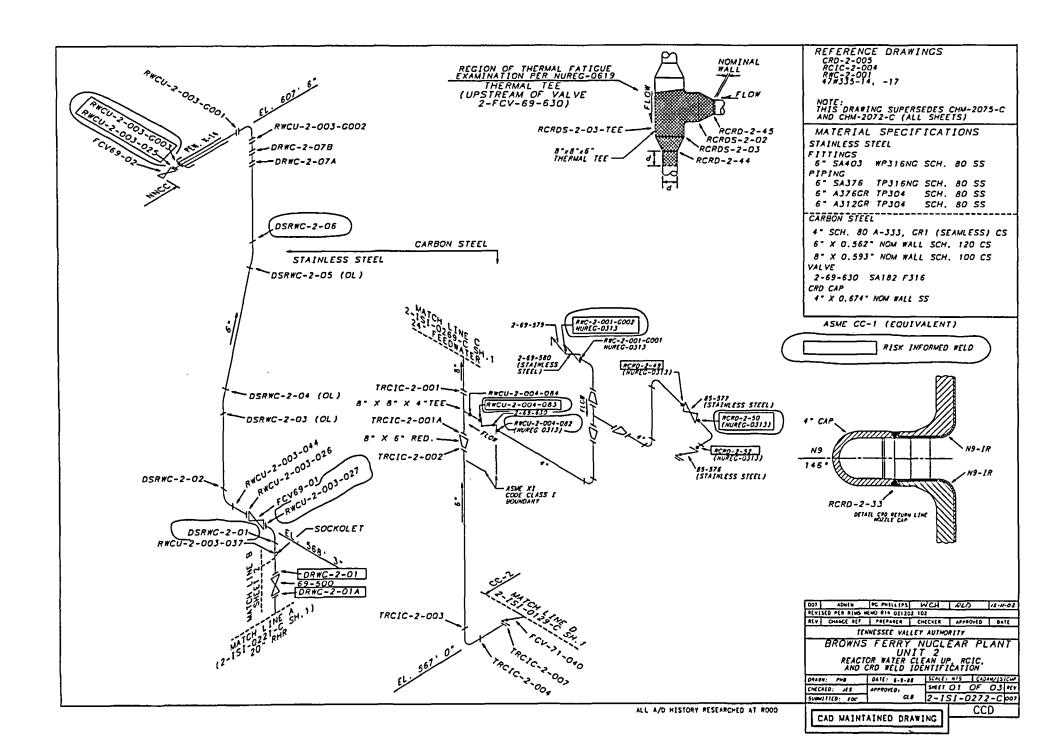


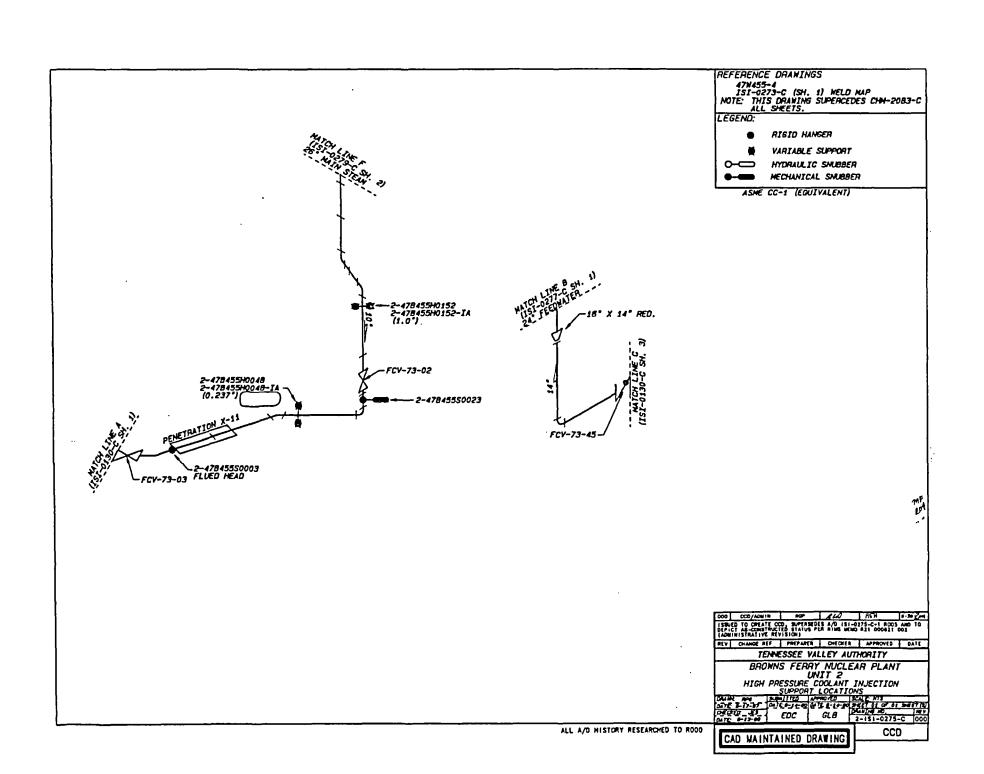


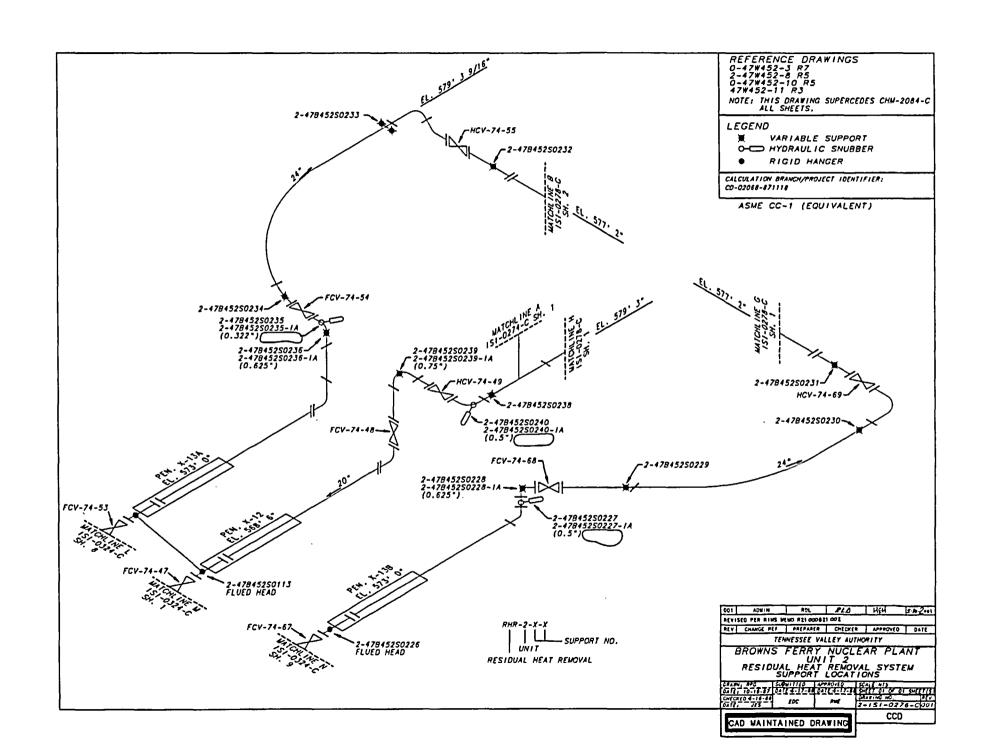


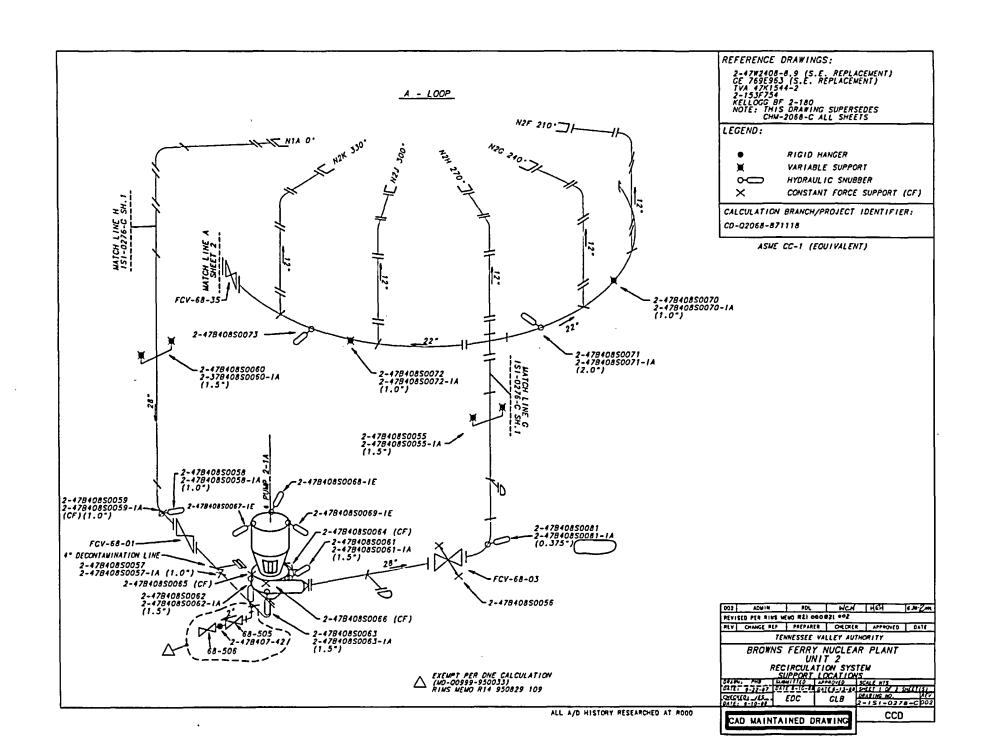


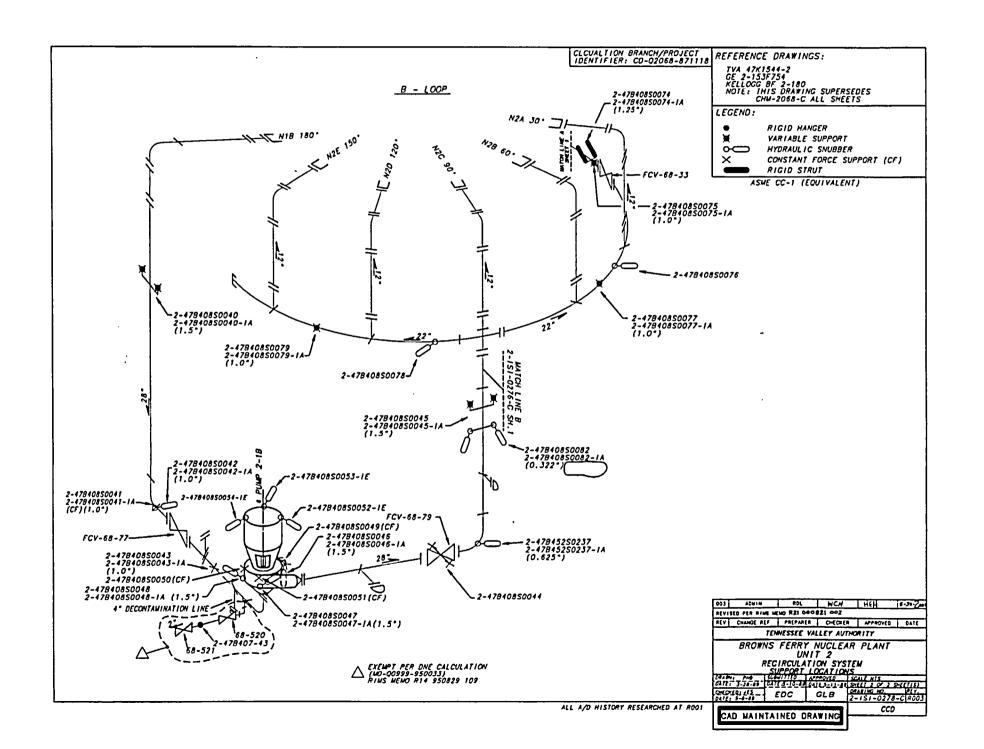


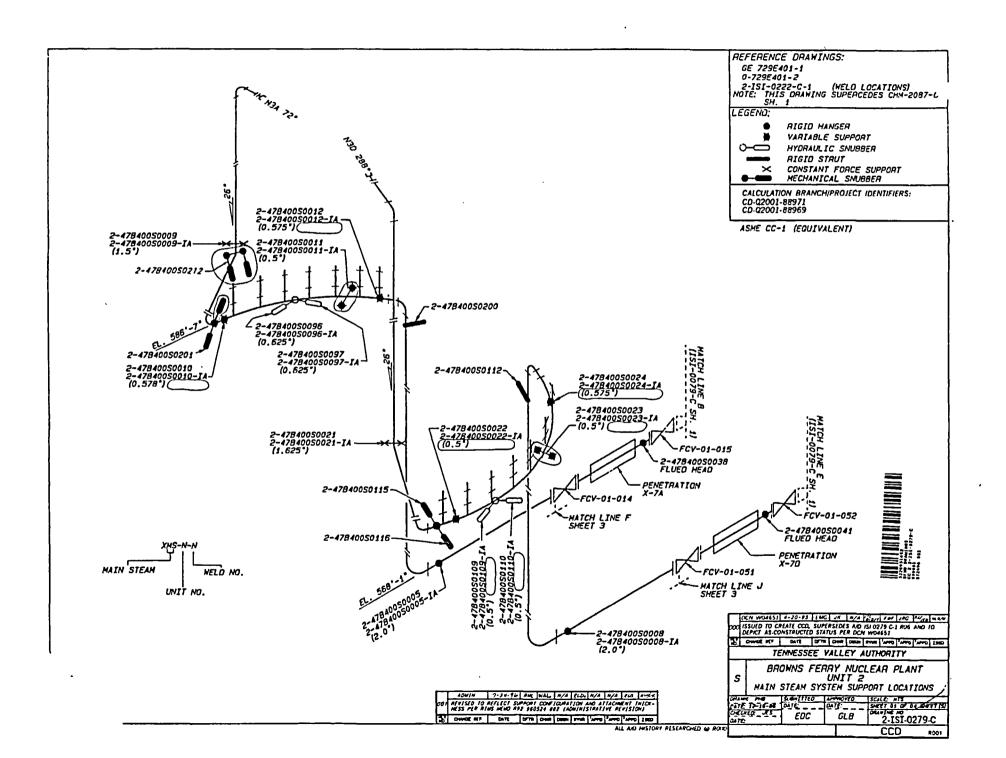


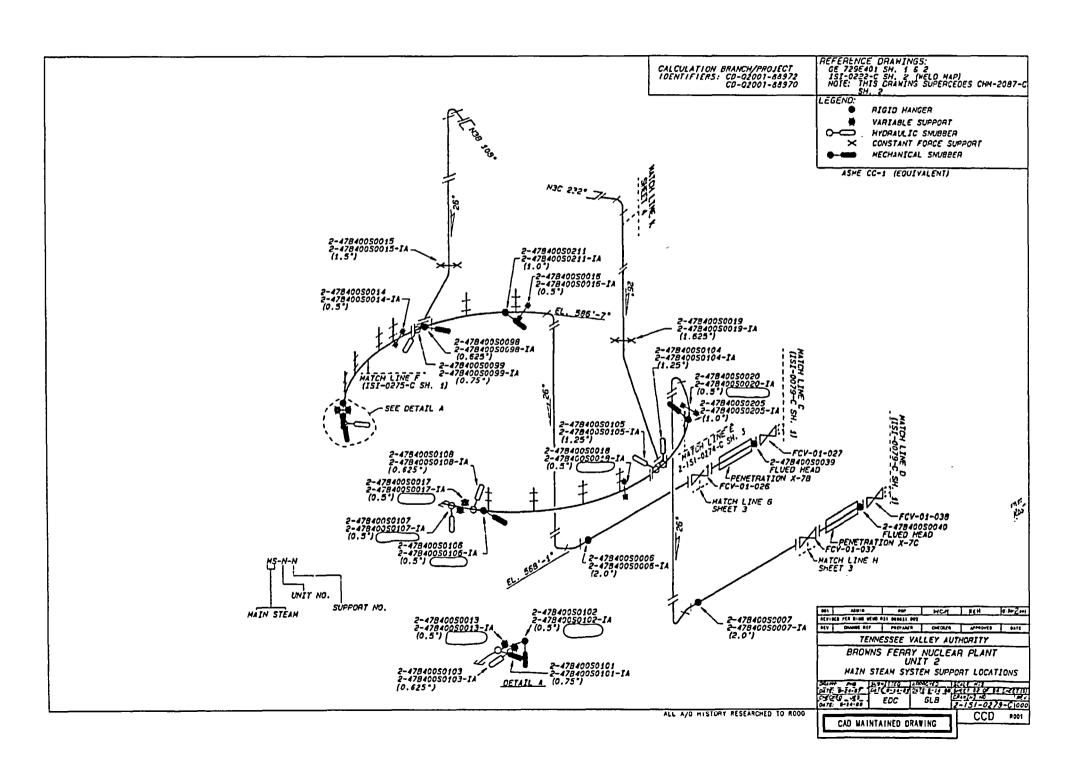


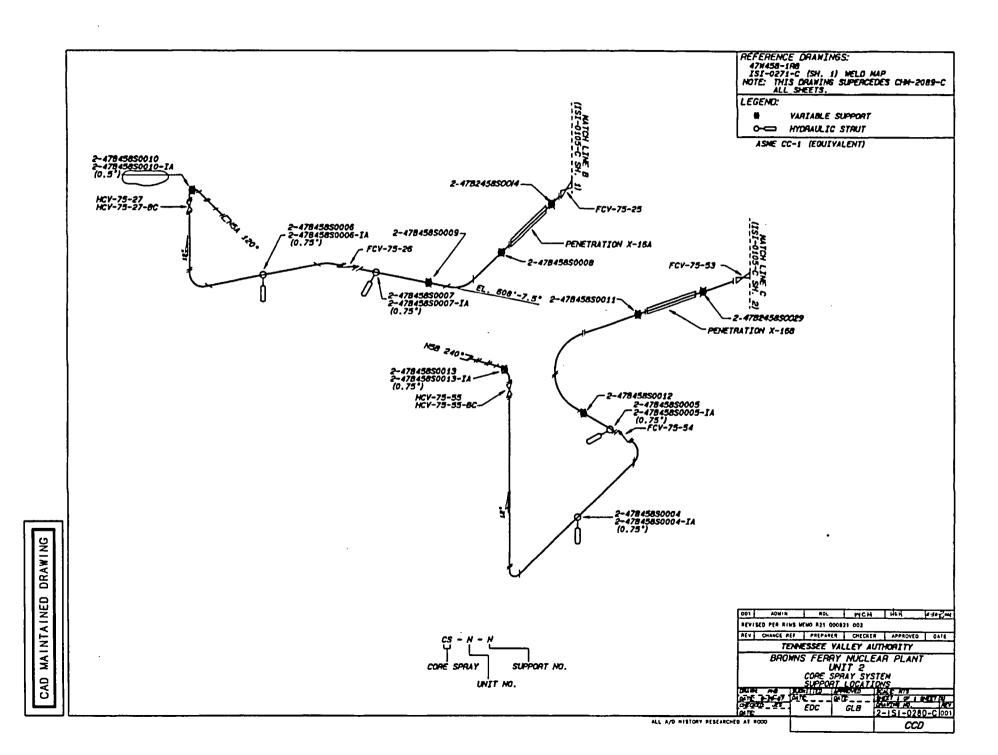




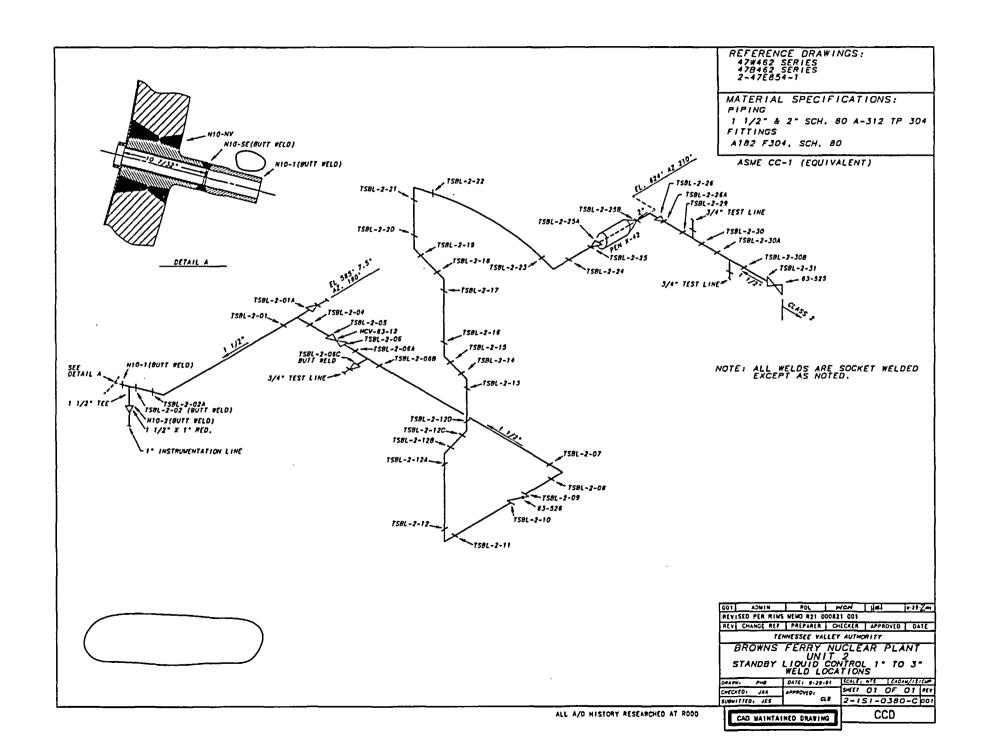








REFERENCE DRAWINGS: 2-47E801-1 ASME CC-1 (EQUIVALENT) PCV1-2-005-X PCV1-2-042-X (REFER TO NOTE 2 FOR MSBC-2-12 "X" SUFFIX, TYPICAL) MSBC-2-04--MSBC-2-11 MSBC-2-03-PCV1-2-023-X PCV1-2-022-X PCV1-2-180-X ALL REVISION CIRCLES - PCV1-2-034-X PCV1-2-179-X ARE ADMINISTRATIVE REVISION -MSBC-2-10 MSBC-2-02 -MSBC-2-05 MSBC-2-07 MSBC-2-05 MSBC-2-08 -NOTES: -*MSBC-2-09* MSBC-2-01 -1. THIS DRAWING SUPERSEDES ISI-0027-B FOR UNIT 2 ONLY PCV1-2-004-X PCV1-2-041-X SUBSTITUTE "VBC" FOR "X" WHEN EXAMINING VALVE BODY BOLTING AND "PBC" FOR "X" WHEN EXAMINING VALVE TO PIPE BOLTING. PCV1-2-019-X PCV1-2-051-X PCV1-2-018-X PCV1-2-030-X ADUIN SCC N/A N/A N/A 000 ISSUED TO CREATE CCD. SUPERSEDES AS-DESIGNED ISI-0312-B-1 R2 AND TO OFFICE AS-CONSTRUCTED STATUS PER A/D RO, R1; RIUS UEUO R92 960604 650 (ADMINISTRATIVE REVISION) DETR CHIR DSGN RVOR APPD APPD APPD ISSD CHANGE REF DATE TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT 2 זואט MAINSTEAM SYSTEM **BOLTED CONNECTIONS** SUBMITTED APPROVED DRAWN: PHO DATE: * SCALE: NIS HARONARE | TEKTRONIX 4129 SHEET I OF I SHEET (S) DATE: _____ DATE:____ SOFTHARE | TEXNICAD 8.2 * FOR ORIGINAL SIGNATURES AND PREVIOUS REV. INFO. SEE "ORIGINAL". CRANING NO. CHECKED: REV FLOPPY | FLOPPY #8F# DATE: 2-151-0312-8 000 OR TAPE CCD PROCAD ALL A/D HISTORY RESEARCHED AT ROOD



1-1/2"x1" CPLG
2-RFW-03-31A
FW1-2-16A

N=55EL

N-16A-SE (BUTT WELD)
N-16A-1 (BUTT WELD)
FW1-2-14A
FW1-2-15A

NOZZLE N-16A REF. DWG. ISI-0351-A

FWI-2-01A

2

REACTOR

NITA-SE (BUTT WELD)

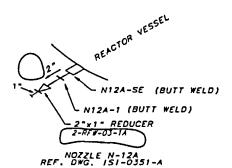
FWI-2-02A

FWI-2-03A

NOZZLE N-11A REF. DWG. ISI-0351-A REFERENCE DRAWINGS: 2-47E803-5 2-47E803-100 2-47E600-602 478M600-SERIES 0-47W600-20

MATERIAL SPECIFICATIONS:
PIPING
A312 OR A376 GR. TP-304 OR TP-316
SCH. 80
FITTINGS
A182 GR. F-316

ASME CC-1 (EQUIVALENT)



001 ADVIN ADL JLD HEU 6-17-Z-M
REVISED FER RIUS MEMO RZI 000821 001
REV CHANGE REF PREPAREN CHECKER APPROVED DATE
TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT
UNIT 2
FEEDWATER INSTRUMENTATION
WELD LOGATIONS

CCD

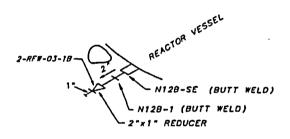
1-1/2"x1" CPLG 2-RFW-03-318 FWI-2-16B REF. DWG. ISI-0351-A

1-1/2 N118-SE (BUTT WELD)
FW1-2-028
FW1-2-038

NOZZLE N-118 REF. DWG. ISI-0351-A REFERENCE DRAWINGS: 2-47E803-5 2-47W2650-100 2-47E600-601 47BM600-5ERIES 0-47W600-20

MATERIAL SPECIFICATIONS:
PIPING
A312 OR A376 GR. TP-304 OR TP-316
SCH. 80
FITTINGS
A182 GR. F-316

ASME CC-1 (EQUIVALENT)

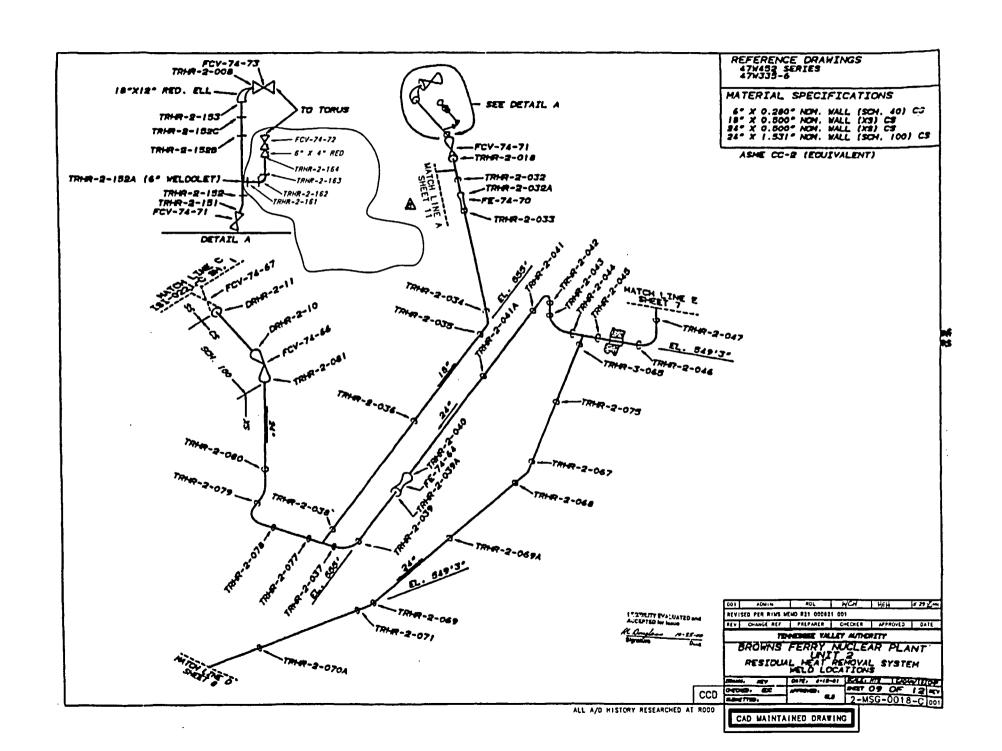


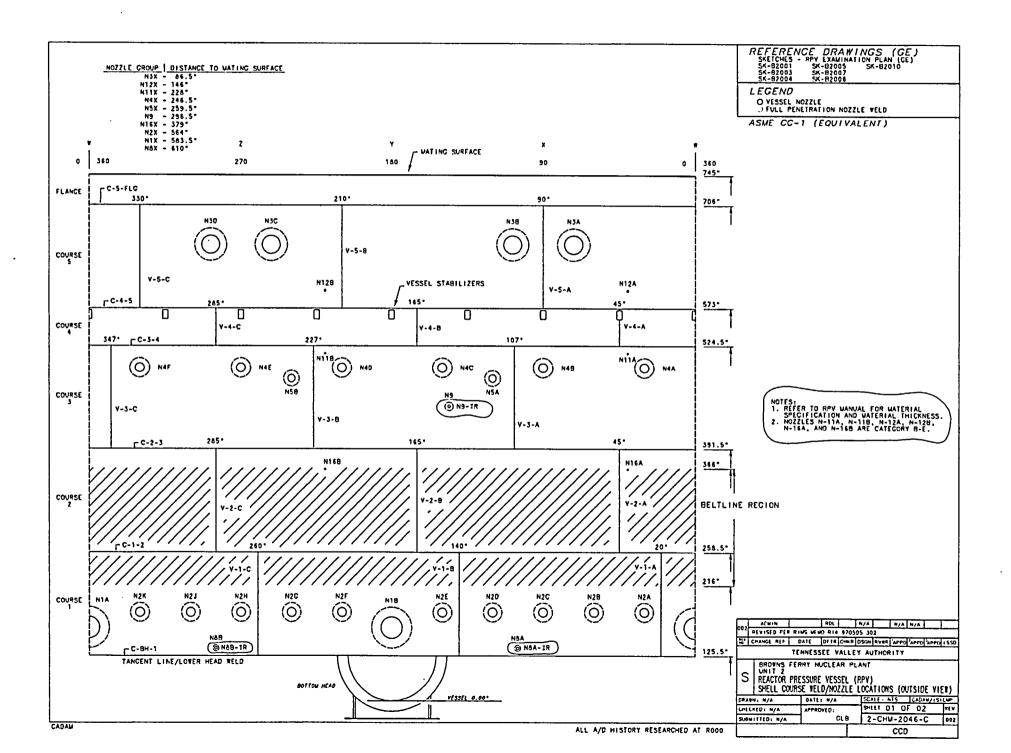
REF. DWG. ISI-0351-A

001	ADWIN	I POL	16	0	HEH	5-29 Zm
REVISE	PER RIUS	NENO NS	000821	001		
REV C	HANGE REF	PREPAR	ER CHE	CKER	APPROVE	DATE
	TE	NNESSEE	VALLEY	AUTHO	RITY	
BF	ROWNS					
	FEEDW	U	NIT .	2		
	FEEDW	ATER	INSTR	UMEN	TATIO	N
		WELD				
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		'S WHELL	PUGEL	IU[S]	11.01.01	वर अस्तुहरू
ONCALO		JES	a.	200	FING NO.	- PCV
DATELD	20-21	44.3	w.	12-	131-03	03-C 001

CAD MAINTAINED DRAWING

CCD





OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

APPENDIX VI

SUMMARY OF INDICATIONS

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Summary of Indications

Indications detected during the performance of examinations for Browns Ferry Nuclear Plant Unit 2/Cycle13 were evaluated in accordance with approved written procedures. Generally, examination results yielded either No Recordable Indications (NRI) or Recordable Indications.

Recordable Indications were evaluated to determine their origin. Indications determined to be of a geometric, metallurgical, or similar origin were typically dispositioned as non-relevant. Indications determined to be of a non-geometric, non-metallurgical, or similar origin were typically dispositioned as relevant. Such indications required additional measures such as further evaluation in accordance with ASME Section XI acceptance standards, engineering analysis, repair, or replacement.

The following is a summary indications detected and corrective measures taken during the Unit 2 Cycle 13 Refueling Outage. Reference Attachment # 2 BFN IWE Containment Inservice Inspection (CISI) Program for the summary.

NOI No.	Code	Component	Indication	Resolution	Additional
:	Cat.	Identifier	Description		samples
U2C13-001	E-D	MSB-2-1, MSB-2-2, MSB-2-3	Moisture Seal Barrier seperation.	Replace and reinspected	NONE
U2C13-002	E-A	DW LNR-2-3	Coatings flaking, blistering, and pitting.	Scape back to sound coating and reinspected	NONE
U2C13-003	E-A	PSC-INT-2-B 1A - 16A	96 Downcomers exhibit light to heavy corrosion with blisters and pitting.	UT readings taken to verify wall thickness maintained. Use As Is.	NONE
U2C13-004	E-A	DW LNR-2-1	Pitting and corrosion on Moisture Seal Barrier.	UT readings taken to verify wall thickness maintained. Use As Is.	NONE
U2C13-005	E-A	DW LNR-2-5	Loose flaking coatings.	Scape back to sound coating and reinspected	NONE
U2C13-006	E-A	DW LNR-2-2	Blistered and flaking coatings on Drywell liner elev. 563'.	Scape back to sound coating and reinspected	NONE
U2C13-008	E-A	PEN 2-X5G	Flaking and bubbled coatings near bottom end of penetration.	Scape back to sound coating and reinspected.	NONE
U2C13-009	E-A	PSC-INT-B-2A, 3A, 4A, 8A, 12A, 13A, 14A, 15A, and 16A	Blistered coating found on main vent line and vent header.	Scape back to sound coating and reinspected.	NONE
U2C13-010	E-A	PSC-INT-2-B-1B to PSC-INT-2-B-16B	15 of 16 bays had at least one pit greater than 3 mils deep and coatings blistering.	Coatings repaired and reinspected.	NONE

ADDITIONAL SAMPLES

There were no additional samples required this outage.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ATTACHMENT 1

UNIT 2 CYCLE 13 AUGMENTED EXAMINATION SUMMARY

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

SECTION 1

AUGMENTED SUMMARY

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

This section includes augmented examinations performed to comply with NRC or TVA self-imposed requirements. Typical sources include generic letters, IE Bulletins, technical specifications, vendor recommendations, and industry experience. The following summarizes the augmented examinations performed during the Unit 2 Cycle 13 outage and references the corresponding paragraph in 2-SI-4.6.G and/or 0-TI-365.

Paragraph 7.11.5 Augmented Examination of Austenitic Stainless Steel and Dissimilar Metal Welds Susceptible to IGSCC (BWRVIP-75)

Austenitic stainless steel and dissimilar metal circumferential welds in piping four inches or larger in nominal pipe diameter which contain reactor coolant at temperatures above 200 degrees F during power operation shall be examined. There was no new IGSCC identified in Cycle 13.

Reference: BWR Vessel and Internals Project, Technical Basis for Revisions to Generic Letter 88-01 Inspection Schedules, BWRVIP-75.

NUREG-0313 CATEGORY	TOTAL NUMBER OF WELDS	WELDS EXAMINED DURING U2/C12 Outage
Α	47	*0
В	N/A	N/A
С	115	6
D	7	4
Е	15	4
F	N/A	N/A
G	2	2 (VT-2)

^{*}Category A Welds are sampled in accordance with the Unit 2 Risk - Informed ISI Program.

Examination Results: No indications of IGSCC cracking observed.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Paragraph 7.11.6 Weld inspection For Pipe Whip Protection

Additional examinations shall be performed each inspection interval on selected circumferential pipe welds to provide additional protection against pipe whip in accordance with TSR 3.4.3.2.

The following welds were ultrasonically examined during the Unit 2 Cycle 13 Refueling Outage to locate evidence of pipe whip:

GFW-2-12	REPORT # R-015
GFW-2-29	REPORT # R-016
GMS-2-06	REPORT # R-034
KMS-2-104	REPORT # R-035
DSRHR-2-06	REPORT # R-020

Examination results: The examinations were acceptable.

Paragraph 7.11.7 Reactor Pressure Vessel Interior

Augmented examinations of the RPV interior components are performed in accordance with 0-TI-365, Revision 014, Reactor Pressure Vessel Internals Inspection (RPVII) Units 1, 2 and 3. Reference ISI Reports # R-054 and R-065.

<u>Core Spray Piping, T-Box's and Sparger Inspection's Visual (VT-1, EVT-1, and UT)</u> <u>Examinations:</u> Total: 49

<u>Visual of Welds:</u> T-Box @ 120°, P1 @120°, P2 @120°, AP3@120°, BP3 @120°, 240° T-Box, P1 @240°, P2 @ 240°, P3 @240°, CP3 @ 240°, and DP3 @240°. UT of Welds: Downcomer "A"; P5, P6, P7, P8A, and P8B. Downcomer "B", P4A, P4B, P4C, P4D, P5, P6, P7, P8A, and P8B. Downcomer "C", P5, P6, P7, P8A, and P8B. Downcomer "D", P5, P6, P7, P8A, and P8B.

Reference: 0-TI-365, Paragraph 7.6 and 7.11.2 and Appendix 9.2 and BWRVIP-18, BWR Core Spray Internals Inspection and Flaw Evaluation Guidelines, EPRI TR-106740

Examination Results: No indications of IGSCC cracking observed.

OFFICE OF NUCLEAR POWER

P.O. BOX 2000

1101 MARKET STREET

DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO

CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

<u>Core Plate, Core Plate Plugs and Core Support Bolts Visual (EVT-1 and VT-3) Examinations:</u> Total = 67

34 – Core Support Bolts, CPHDB L-10, 0 TO 90 Degrees, CPHDB L-10, 90 to 180 Degrees, CPHDB L-10, 180 to 270 Degrees, and CPHDB L-10, 270 to 360 Degrees.

33 - Core Plate Plugs at location: CRGT 50-23, CRGT 42-47, CRGT 42-15, CRGT 22-43, CRGT 22-

11, CRGT 18-15, CRGT 14-43, CRGT 10-39, CRGT 14-35, CRGT 14-27, CRGT 22-51, CRGT 10-

23, CRGT 14-19, CRGT 18-35, CRGT 18-47, CRGT 22-19, CRGT 26-19, CRGT 30-43, CRGT 34-

43, CRGT 38-11, CRGT 38-19, CRGT 38-43, CRGT 38-51, CRGT 42-27, CRGT 46-19, CRGT 46-

27, CRGT 46-43, CRGT 50-39, LPRM 08-25, LPRM 16-33, LPRM 24-41, LPRM 32-17, and LPRM 48-25.

Reference: 0-TI-365, Paragraph 7.14 and Appendix 9.2 and BWRVIP-25, BWR Core Plate Inspection and Flaw Evaluation Guidelines, EPRI TR-107284.

Examination Results: No Recordable Indications noted.

Control Rod Guide Tubes Visual (VT-3 and EVT-1) Examinations: Total = 10

CRGT 50-23, CRGT 42-47, CRGT 42-15, CRGT 22-43, CRGT 22-11, CRGT 18-15, CRGT 14-43, CRGT 10-39, CRGT 14-35, CRGT 14-27. Areas below on each componnent.

Anti-Rotational Pin (ARPIN-1) and Alignment Lug Welds (CRGT-1)

Upper Circumferential Weld (CRGT-2)

Lower Circumferential Weld (CRGT-3)

Interior Surfaces

Reference: 0-TI-365, Paragraph 7.9 and Appendix 9.2 and BWRVIP-26, BWR Top Guide Inspection and Flaw Evaluation Guidelines, EPRI TR-107285.

Examination Results: No indications of IGSCC cracking observed.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

<u>Core Shroud Access Hole Cover Visual (EVT-1) Examination: Total = 2</u>

Access Hole Cover @ 0 Degrees and 180 Degrees.

Reference: 0-TI-365, Reactor Pressure Vessel Internals Inspection (RPVII) Units 1, 2 and 3.

Examination Results: No Recordable Indications noted.

Core Shroud Support Plate Welds H-8 and H-9 Visual (EVT-1/VT-3) and UT Examination: Total = 2

UT of H-9 weld on the outside of Reactor Pressure Vessel at RECIRC Nozzle N1A (0 Degrees) and N1B (180 Degrees).

`EVT-1/VT-3 of welds H-8 and H-9, Area @ 0 degrees from the diffuser of Jet Pump 10 to the diffuser on Jet Pump 11 and Area @ 180 degrees from the diffuser of Jet Pump 1 to the diffuser on Jet Pump 20.

Reference: 0-TI-365, Reactor Pressure Vessel Internals Inspection (RPVII) Units 1, 2 and 3.

Examination Results: No Recordable Indications noted.

Steam Dryer Visual (VT-1) Examination: Total = 16

Manway Covers: 90 Degree Side.

Dryer Cover Plate @ 90 Degrees and 270 Degrees (horizontal and vertical (V8 and V10 welds that

outline the outer Bank (Bank 1).

Dryer Tie Bars

Dryer Drain Channel #3 @ 230 Degrees

Dryer Surfaces 0° to 360°

Dryer Leveling Screw Tack Welds @ 05 Degrees and 180 Degrees

V3 adnd V4, Vertical Welds on Bank 2 at 0 and 180 Degrees

V1 and V2, Vertical Welds on Bank 3 at 0 and 180 Degrees

V1 and V2, Vertical Welds on Bank 4 at 0 and 180 Degrees

V3 adnd V4, Vertical Welds on Bank 5 at 0 and 180 Degrees

Reference: 0-TI-365, Reactor Pressure Vessel Internals Inspection (RPVII) Units 1, 2 and 3.

Examination Results: No Recordable Indications noted.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Jet Pump Assemblies Visual Inspections (VT-1) and UT Examinations: Total = 60

JPA# 1	JPA# 2	JPA#3	JPA# 4	JPA# 5
JP-1 WD-1	JP-2 WD-1	JP-3 WD-1	JP-4 WD-1	JP-5 WD-1
JP-1 AS-1 & 2	JP-2 AS-1 & 2	JP-3 AS-1 & 2	JP-4 AS-1 & 2	JP-5 AS-1 & 2
JPA# 6	JPA#7	JPA#8	JPA# 9	JPA# 10
JP-6 WD-1	JP-7 WD-1	JP-8 WD-1	JP-9 WD-1	JP-10 WD-1
JP-6 AS-1 & 2	JP-7 AS-1 & 2	JP-8 AS-1 & 2	JP-9 AS-1 & 2	JP-10 AS-1 & 2
JPA# 11	JPA# 12	JPA# 13	JPA# 14	JPA# 15
JP-11 WD-1	JP-12 WD-1	JP-13 WD-1	JP-14 WD-1	JP-15 WD-1
JP-11 AS-1 & 2	JP-12 AS-1 & 2	JP-13 AS-1 & 2	JP-14 AS-1 & 2	JP-15 AS-1 & 2
JPA# 16	JPA# 17	JPA# 18	JPA# 19	JPA# 20
JP-16 WD-1	JP-17 WD-1	JP-18 WD-1	JP-19 WD-1	JP-20 WD-1
JP-16 AS-1 & 2	JP-17 AS-1 & 2	JP-18 AS-1 & 2	JP-19 AS-1 & 2	JP-20 AS-1 & 2

Note: JP-XX-WD-1 = Wedge Bearing Surface

JP-XX AS-1 & 2 = Set Screw Gaps and Tacks

Jet Pump Hold Down Beams on Jet Pumps # 1 through 20 were ultrasonically examined in the Bolt Hole Region (BB-1), Radius Region (BB-2), and Taper Region (BB-3).

Reference: 0-TI-365, Paragraph 7.8 and Appendix 9.2 and BWRVIP-41, BWR Jet Pump Assembly Inspection and Flaw Evaluation Guidelines, EPRI TR-108728.

Examination Results: Reference ISI Report R-054 and R-065.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Paragraph 7.11.8 Level Instrumentation Nozzle Safe Ends BWRVIP-49: 6 VT-2 (Visual) Examinations

Perform a VT-2 Visual inspection of the Level Instrumentation safe end to nozzle weld of the N11A-SE, N11B-SE, N12A-SE, N12B-SE, N16-SE, and N16B-SE, nozzles in accordance with the recommendations of BWRVIP-49. The recommendations are to perform a visual leak check of the safe end to nozzle weld during the drywell leak check effort performed each outage. Insulation removal is not necessary to perform the leak check. The implementation interval shall start with the Unit 2 Cycle 13 Refueling Outage. Leakage inspections shall be performed as described during the Cycle 13 outage and during each subsequent refueling outage.

Reference: 0-TI-365, Paragraph 7.12 and BWRVIP-49, "Instrument Penetration Inspection and Flaw Evaluation Guidelines"

Examination Results: A VT-2 examination was performed on all six nozzle safe-end welds during the system leakage test and revealed no leakage.

Paragraph 7.11.9 Core Plate delta/P Standby Liquid Control (SLC) Nozzle BWRVIP-27: 1 VT-2 (Visual) Examination

Perform a VT-2 Visual inspection of the Core Plate delta/P Standby Liquid Control (SLC), nozzle to safe end weld and safe end of the N10-SE in accordance with the recommendations of BWRVIP-27. The recommendations are to perform a visual leak check of the safe end to nozzle weld and safe end during the drywell leak check effort performed each outage. Insulation removal is required to perform the leak check. The implementation interval shall start with the Unit 2 Cycle 13 Refueling Outage.

Leakage inspections shall be performed as described during the Cycle 13 outage and during each subsequent refueling outage.

Reference: 0-TI-365, Paragraph 7.16 and Appendix 9.2 and BWRVIP-27, "BWR Standby Liquid Control System/Core Plate delta/P Inspection and Flaw Evaluation Guidelines"

Examination Results: A VT-2 examination was performed on the nozzle to safe-end weld and safe end during the system leakage test and revealed no leakage.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

TVA/Browns Ferry Nuclear Plant, NRC Commitment in FSAR Section 10.10.5: 6 Welds

TVA/BFN to monitor the Unit 2 Emergency Equipment Cooling Water (EECW) System 067, stainless steel butt welds each cycle to ensure structural integrity of the system. Perform radiography in accordance with TVA Nondestructive Examination (NDE) Procedures, of designated welds to monitor for Microbiologically Induced Corrosion (MIC) progress. Reference Work Order # 04-724255-000 and 04-717753-000.

Core Spray (CS) Loop II Room Coolers B & D Welds:

T-EECW-2-CBD-07B, T-EECW-2-CBD-10B, T-EECW-2-CBD-39B, AND T-EECW-2-40B.

Residual Heat Removal (RHR) Loop I Room Coolers A & C Welds:

T-EECW-2-AC-19B and T-EECW-2-23B.

Examination Results: No new MIC growth recorded.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

SECTION 2

EXAMINATION SUMMARY

EXAMINATIONS PERFORMED DURING

UNIT 2 CYCLE 13 OUTAGE

OWNER: TENNESSEE VALLEY AUTHORITY

NUCLEAR POWER GROUP

EXAM REQUIREMENT: B02-02 CHATTANOOGA, TENNESSEE 37402

B07-02

0TI365

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000

DECATUR, ALABAMA 35609-2000

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
FWS	GFW-2-12	2-ISI-0269-C-01	B04-02	B-J	TS3432	UT	WB-78	20050324	R-015	Р	
FWS	GFW-2-29	2-ISI-0269-C-01	B04-02	B-J	TS3432	UT	WB-78	20050324	R-016	Р	
MSS	GMS-2-06	2-ISI-0222-C-01	B04-02	B-J	TS3432	UT	WB-78	20050330	R-034	P	
MSS	KMS-2-104	2-ISI-0222-C-01	B04-02	B-J	T\$3432	UT	WB-78	20050331	R-035	P	
RECIR	KR-2-02	2-ISI-0270-C-01	B02-02	С	NU031	UT	WB-85	20050402	R-048	P	
RECIR	KR-2-03	2-ISI-0270-C-01	B02-02	С	NU031	UT	WB-85	20050401	R-043	P	
RECIR	KR-2-14	2-ISI-0270-C-01	B02-02	E	NU031	UT	ISI-165	20050403	R-050	P	SIZING UT
RECIR	KR-2-14	2-ISI-0270-C-01	B02-02	E	NU031	UT	WB-85	20050402	R-050	P	
RECIR	KR-2-36	2-ISI-0270-C-02	B02-02	E	NU031	UT	ISI-165	20050402	R-047	P	SIZING UT
RECIR	KR-2-36	2-ISI-0270-C-02	B02-02	E	NU031	UT	WB-85	20050401	R-047	Р	
RECIR	KR-2-37	2-ISI-0270-C-02	B02-02	E	NU031	UT	ISI-165	20050401	R-046	P.	SIZING UT
RECIR	KR-2-37	2-ISI-0270-C-02	B02-02	E	NU031	UT	WB-85	20050331	R-046	Р	
RECIR	KR-2-41	2-ISI-0270-C-02	B02-02	E	NU031	UT	WB-85	20050330	R-042	P	
RECIR	KR-2-41	2-ISI-0270-C-02	B02-02	Ε	NU031	UT	ISI-165	20050401	R-042	P	SIZING UT
RECIR	KR-2-50	2-ISI-0270-C-02	B02-02	С	NU031	UT	WB-85	20050331	R-038	P	
RECIR	KR-2-51	2-ISI-0270-C-02	B02-02	С	NU031	UΤ	WB-85	20050403	R-051	P	
RHRS	DRHR-2-03	2-ISI-0221-C-01	B02-02	D	NU031	UΤ	WB-85	20050326	R-022	P	
RHRS	DRHR-2-03B	2-ISI-0221-C-01	B02-02	G	NU031	VT-2		20050410	R-052	P	
RHRS	DRHR-2-11	2-MSG-0018-C-09	B02-02	D	NU031	UT	WB-85	20050325	R-025	P	
RHRS	DRHR-2-13B	2-ISI-0221-C-01	B02-02	G	NU031	VT-2		20050410	R-052	P	
RHRS	DSRHR-2-06	2-ISI-0221-C-01	B04-02	B-J	TS3432	UT	WB-85	20050326	R-020	Р	
RHRS	DSRHR-2-06	2-ISI-0221-C-01	B02-02	С	NU031	UΤ	WB-85	20050326	R-020	P	

OWNER: TENNESSEE VALLEY AUTHORITY

NUCLEAR POWER GROUP

EXAM REQUIREMENT: B02-02 CHATTANOOGA, TENNESSEE 37402

B07-02 OT1365

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

PLANT: BROWNS FERRY NUCLEAR PLANT

PO BOX 2000

DECATUR, ALABAMA 35609-2000

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Number	ISO Drawing	Exreq	Category	ltem Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RHRS	DSRHR-2-09	2-ISI-0221-C-01	B02-02	С	NU031	UT	WB-85	20050329	R-027	P	Hanger 2-47B452S0229 must be moved to UT this Weld
RPV	ACCESS HOLE COVE	R 2-CHM-2046-C-02	0TI365	N/A	N/A	EVT-1		20050328	R-054	Р	0' AND 180'. Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	JET PUMPS		0TI365	N/A	N/A	UT		20050326	R-065	Р	Procedure 54-ISI-159-07 (SDCN# 30-5061633-00).
RPV	JET PUMPS		OT1365	N/A	N/A	VT-1		20050329	R-054	Р	Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	N10-SE	2-ISI-0380-C-01	B07-02	BWRVIP	N/A	VT-2		20050410	R-052	P	
RPV	N11A-SE	2-ISI-0383-C-01	807-02	BWRVIP	N/A	VT-2		20050410	R-052	P	
RPV	N11B-SE	2-ISI-0383-C-02	B07-02	BWRVIP	N/A	VT-2		20050410	R-052	P	
RPV	N12A-SE	2-ISI-0383-C-01	B07-02	BWRVIP	N/A	VT-2		20050410	R-052	P	·
RPV	N12B-SE	2-ISI-0383-C-02	B07-02	BWRVIP	N/A	VT-2		20050410	R-052	P	
RPV	N-16A-SE	2-ISI-0383-C-01	B07-02	BWRVIP	N/A	VT-2		20050410	R-052	P	
RPV	N-16B-SE	2-ISI-0383-C-02	B07-02	BWRVIP	N/A	VT-2		20050410	R-052	Р	
RPV	RCRD-2-33	2-ISI-0272-C-01	B02-02	D	NU031	UT	WB-85	20050331	R-041	P	
RPV	RPV CORE PLATE	2-CHM-2046-C-02	0T1365	N/A	N/A	VT-3		20050327	R-054	P	Includes, Core Plate Bolting and Core Plate Plugs. Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	RPV CR GUIDE TUBE	S 2-CHM-2046-C-02	0T1365	N/A	N/A	VT-1E		20050327	R-054	Р	Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	RPV CR GUIDE TUBE	S 2-CHM-2046-C-02	OT1365	N/A	N/A	VT-3		20050327	R-054	Р	Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	RPV CS PIPING	2-CHM-2046-C-02	0TI365	N/A	N/A	EVT-1		20050326	R-054	Р	Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	RPV CS PIPING	2-CHM-2046-C-02	OTI365	N/A	N/A	UT			R-065	P	Procedure 54-ISI-160-02 (SDCN# 30-5056952 REV.00). Exam dates 20050326 to 20050329. Core Spray Downcomer Piping A, B, C, and D.
RPV	RPV CS PIPING	2-CHM-2046-C-02	OTI365	N/A	. N/A	VT-3		20050326	R-054	Р	Includes T-Box "A" @ 120' and T-Box "B" @ 240'. Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).
RPV	RPV SHROUD WELD	H 2-CHM-2046-C-02	OTI365	N/A	N/A	EVT-1		20050328	R-054	P	Weld H-9. Procedure 54-ISI-363-02 (SDCN# 30-5038911-02).

OWNER: TENNESSEE VALLEY AUTHORITY

NUCLEAR POWER GROUP

EXAM REQUIREMENT: B02-02 CHATTANOOGA, TENNESSEE 37402
B07-02 UNIT: TWO COURTS

0TI365

PLANT: BROWNS FERRY NUCLEAR PLANT

PO BOX 2000

DECATUR, ALABAMA 35609-2000

CERTIFICATION OF AUTHORIZATION: NOT REQUIRED NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
RPV	RPV SHROUD WELD I	1 2-CHM-2046-C-02	OT1365	N/A	N/A	UT	BF-18	20050323	R-010	P	Weld H-9. EXAMINER W. J. PERSINGER. PROCEDURE 54-ISI-166, SDCN# 30-5041850-00 REFERENCE BWRVIP-38. TOTAL AREA SCANNED 120" AT 0' AND 180"
RPV	RPV STEAM DRYER	2-CHM-2046-C-02	OT1365	N/A	N/A	VT-1		20050330	R-054	P	Procedure 54-ISI-363-02 (SDCN# 30-5038911-02)
RPV	RPV STEAM DRYER	2-CHM-2046-C-02	OT1365	N/A	N/A	VT-3		20050330	R-054	Р	Procedure 54-ISI-363-02 (SDCN# 30-5038911-02)
RWCU	RCRD-2-50	2-ISI-0272-C-01	B02-02	D	NU031	UT	WB-85	20050329	R-028	P	

COMMERCIAL SERVICE DATE: MARCH 1, 1975

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ATTACHMENT 2

IWE-BFN CONTAINMENT INSERVICE INSPECTION (CISI) PROGRAM

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

The information contained in this report is provided in accordance with the requirements of 10CFR50.55a(b)(2)(x)(A), evaluation of inaccessible areas, and 10CFR50.55a(b)(2)(x)(D), evaluation for additioal examinations, as they pertain to containment inservice examinations performed during the BFN Unit 2 Cycle 13 refueling outage.

The subject examinations were performed in accordance with ASME Section XI Subsection IWE, 1992 Edition/1992 Addenda. BFN Unit 2 is in the second period of the first examination interval.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

BFN CONTAINMENT INSERVICE INSPECTION (CISI) PROGRAM U2C13 REFUELING OUTAGE SUMMARY REPORT

Unit: BFN Unit 2 Refueling Outage: U2C13

Period/Interval: Second Period of the First Interval

Code of Record: ASME Section XI, 1992 Edition/1992 Addenda

Program Procedure: 0-TI-376, Revision 4

Summary of Examinations

The records contained within the U2C13 Site Final Report comprise the Containment Inservice examinations performed to implement the requirements of ASME Section XI, Subsection IWE. The examinations are summarized as follows:

Table IWE-2500-1, Examination Category E-A, Containment Surfaces

There were no periodic examinations scheduled for the U2C13 outage. However, examinations were performed in support of maintenance activities as described below.

- The Coatings Program identified some areas of loose, flaking and peeling coatings on the
 drywell liner and torus vent header which were corrected by scrape back to sound coating. A
 VT-3 was performed before coating removal (scrape back) and another VT-3 was performed
 following coating removal (scrape back).
- The Coatings Program identified areas of light to heavy corrosion on the torus downcomers above waterline which was to be corrected by hydrolazing. A VT-3 was performed before coating removal (hydrolazing). A follow-up VT-3 was not performed because hydrolazing was cancelled and scrape back determined the corrosion was on surface of coating only.
- A VT-3 was performed on areas of the drywell liner at elevation 550' which are normally inaccessible, but were exposed during repair of the moisture seal barrier.

<u>Table IWE-2500-1, Examination Category E-C, Containment Surfaces Requiring Augmented Examination</u>

During U2C13, 100% of the Pressure Suppression Chamber interior air/water interface area was examined. The air/water interface is the only area currently identified as an augment area for BFN Unit 2. During the previous outage (U2C12), 100% of the Pressure Suppression Chamber exterior air/water interface area was examined. The combination of exams during U2C12 and U2C13 complete 100% of the examinations required by Code Category E-C, Item Number E4.11 for the Second Period.

<u>Table IWE-2500-1, Examination Category E-D, Seals, Gaskets and Moisture Barriers</u>
During U2C13, 100% of the Drywell moisture barrier seal at elevation 550 ft. was examined.

<u>Table IWE-2500-1</u>, <u>Examination Category E-G</u>, <u>Pressure Retaining Bolting</u> No examinations were performed in this category.

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1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

SUMMARY OF INDICATIONS

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

BFN CONTAINMENT INSERVICE INSPECTION PROGRAM

ASME SECTION XI SUBSECTION IWE

This information contained in this Appendix is provided in accordance with the requirements of 10CFR50.55a (b)(2)(ix)(A), evaluation of inaccessible areas, and 10CFR50.55a(b)(2)(ix)(D), evaluation for additional examinations, as they pertain to containment inservice examinations performed during the BFN Unit 2 Cycle 13 refueling outage.

These subject examinations were performed in accordance with ASME Section XI Subsection IWE, 1992 Edition/1992 Addenda. BFN Unit 2 is in the second period of the first examination interval.

NOT Not 02C13-001 Report Not C131-213-002 Component: Drywell Moisture Seal Barrier	NOI No: U2C13-001	Report No: CISI-213-002	Component: Drywell Moisture Seal Barrier
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Condition/Indication: Moisture seal barrier is separated from the drywell and concrete and is damaged.

EVALUATION OF INACCESSIBLE AREAS 10CFR50.55a(b)(2)(ix)(A)

(1) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:

N/A. All areas of the seal have been examined. No inaccessible areas.

(2) Evaluation of each area, and the result of the evaluation:

N/A. All areas of the seal have been examined. No inaccessible areas.

(3) Description of necessary corrective actions:

Areas of Moisture Seal Barrier failure (e.g., separation from shell/concrete, damage, depression, etc.) were removed and then replaced to meet the standards specified in 0-SI-4.7.A.2.K.

ADDITIONAL EXAMINATIONS 10CFR50.55a(b)(2)(ix)(D)

(1) Description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation:

N/A. All areas of the seal have been examined. No additional examinations required.

(2) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components:

N/A. All areas of the seal have been examined. No additional examinations required.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

(3) A description of the necessary corrective actions:

Areas of Moisture Seal Barrier failure (e.g., separation from shell/concrete, damage, depression, etc.) were removed and then replaced to meet the standards specified in 0-SI-4.7.A.2.K.

(4) The number and type of additional examinations to ensure detection of similar degradation in similar components:

N/A. All areas of the seal have been examined. No additional examinations required.

NOI No: U2C13-002 Report No: CISI-213-001 Component: Drywell Liner Elevation 584 ft.

Condition/Indication: Loose and peeling paint on the metal containment liner.

EVALUATION OF INACCESSIBLE AREAS 10CFR50.55a(b)(2)(ix)(A)

(1) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:

NOI U2C13-002 and Report CISI-213-001 document conditions noted during VT-3 examination of the steel Drywell containment vessel on elevation 584 ft. in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of flaking and peeling coating.

(2) Evaluation of each area, and the result of the evaluation:

The coating failure identified during the U2C13 RFO is the result of oxidation of the zinc primer coat. The protective function of the zinc primer is sacrificial and in time, oxidation will occur in all areas, accessible and inaccessible, resulting in delamination of the epoxy top coat. The loss of the top coat is not expected to be detrimental to the steel liner in the inaccessible areas because the remaining zinc primer, the nitrogen atmosphere and the absence of moisture/moisture retaining crevasses on the Liner wall will provide corrosion protection for the primary containment boundary.

(3) Description of necessary corrective actions:

The areas of coating failure (e.g., delamination, peeling, blistering, etc.) were scraped back until proper adhesion (sound coating) was obtained. In areas where scrape back was performed the zinc primer is intact and will provide corrosion protection for the primary containment boundary. The areas of coating failure have been documented and are being tracked in the plant corrective action program (PER 80430).

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ADDITIONAL EXAMINATIONS 10CFR50.55a(b)(2)(ix)(D)

(1) Description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation:

NOI U2C13-002 documents indications noted during VT-3 examination of containment vessel surface in areas identified for coating removal on drywell elevation 584 ft. . The indications noted consist of areas of flaking and peeling of the applied coating. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal.

(2) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components:

The coating failure identified during the U2C13 RFO is the result of oxidation of the zinc primer coat. The protective function of the zinc primer is sacrificial and in time, oxidation will occur in all areas, accessible and inaccessible, resulting in delamination of the epoxy top coat. The loss of the top coat is not expected to be detrimental to the steel liner in the inaccessible areas because the remaining zinc primer, the nitrogen atmosphere and the absence of moisture/moisture retaining crevasses on the Liner wall will provide corrosion protection for the primary containment boundary.

(3) A description of the necessary corrective actions:

The areas of coating failure (e.g., delamination, peeling, blistering, etc.) were scraped back until proper adhesion (sound coating) was obtained. In areas where scrape back was performed the zinc primer is intact and will provide corrosion protection for the primary containment boundary. The areas of coating failure have been documented and are being tracked in the plant corrective action program (PER 80430).

(4) The number and type of additional examinations to ensure detection of similar degradation in similar components:

During the previous U2C12 outage, 100% of the accessible areas of the Drywell Liner received a general visual examination and all areas identified were corrected as required. During this outage, U2C13, coating examinations in accordance with 0-TI-417 were performed in 100% of the accessible areas of the Drywell Liner. No additional examinations are required.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

NOI No: U2C13-003	Report No: CISI-213-004	Component: Torus Vent System Downcomers
		Above Water Line

Condition/Indication: Downcomers exhibit light to heavy corrosion with blisters and pitting.

EVALUATION OF INACCESSIBLE AREAS 10CFR50.55a(b)(2)(ix)(A)

(1) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:

NOI U2C13-003 and Report CISI-213-004 document conditions noted during VT-3 examination of the steel Pressure Suppression Chamber (Torus) vent system downcomers above the water line in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of light to heavy corrosion with blisters and pitting.

(2) Evaluation of each area, and the result of the evaluation:

The coating failure identified during the U2C13 RFO is the result of moisture intrusion through pinholes in the coating. The pinholes are random in location and continue to develop with time (age of coating). The rust on the surface of coating is the result of a cleanup sanding performed with contaminated sanding material during recovery. This surface rust can result in the development of pinholes. With minimal moisture and the nitrogen atmosphere during operation corrosion of the downcomer steel should not occur or be very light.

(3) Description of necessary corrective actions:

The coating in downcomers with areas of heavy corrosion and blisters were scraped to remove the failed coating. Scraping identified that the light to heavy corrosion was a condition that existed on the surface of the coating and did not affect the adhesion or protective qualities of the coating. Minor blisters at the weld joint and in the surface of the coating in some of the downcomers were removed. In these spots the substrate had surface rust and the pitting was minor and light in appearance. UT readings (BOP-284) taken in five of the downcomers with heavy corrosion identified that there is no wall loss. Areas of coating failure have been documented under PER 80430.

ADDITIONAL EXAMINATIONS 10CFR50.55a(b)(2)(ix)(D)

(1) Description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation:

NOI U2C13-003 and Report CISI-213-004 document conditions noted during VT-3 examination of the steel Pressure Suppression Chamber (Torus) vent system downcomers above the water line in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of light to heavy corrosion with blisters and pitting.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

(2) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components:

The coating failure identified during the U2C13 RFO is the result of moisture intrusion through pinholes in the coating. The pinholes are random in location and continue to develop with time (age of coating). The rust on the surface of coating is the result of a cleanup sanding performed with contaminated sanding material during recovery. This surface rust can result in the development of pinholes. With minimal moisture and the nitrogen atmosphere during operation corrosion of the downcomer steel should not occur or be very light.

(3) A description of the necessary corrective actions:

The coating in downcomers with areas of heavy corrosion and blisters were scraped to remove the failed coating. Scraping identified that the light to heavy corrosion was a condition that existed on the surface of the coating and did not affect the adhesion or protective qualities of the coating. Minor blisters at the weld joint and in the surface of the coating in some of the downcomers were removed. In these spots the substrate had surface rust and the pitting was minor and light in appearance. UT readings (BOP-284) taken in five of the downcomers with heavy corrosion identified that there is no wall loss. Areas of coating failure have been documented under PER 80430.

(4) The number and type of additional examinations to ensure detection of similar degradation in similar components:

During the previous U2C12 outage, 100% of the accessible areas of the downcomers received a general visual examination and all areas identified were corrected as required. During the U2C13 RFO, coating examinations in accordance with 0-TI-417 were performed in 100% of the accessible areas of the downcomers. This NOI documents recordable indications in areas before coating repairs were initiated. No additional examinations are required.

NOI No: U2C13-004 | Report No: CISI-213-007 | Component: Drywell Liner Elevation 550 ft.

Condition/Indication: Pitting and corrosion identified where moisture seal barrier was removed.

EVALUATION OF INACCESSIBLE AREAS 10CFR50.55a(b)(2)(ix)(A)

(1) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:

NOI U2C13-004 and Report CISI-213-007 document conditions noted during VT-3 examination of the steel Primary Containment liner in areas where the moisture seal barrier was removed. This examination was performed because the normally inaccessible area was exposed during repair of the moisture seal barrier. The reported conditions consist of pitting and corrosion.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

(2) Evaluation of each area, and the result of the evaluation:

Pitting was found in the Primary Containment liner in selected locations behind the moisture seal barrier. This pitting is located in the top 2/3 of the 2 inch deep "V" groove. No active corrosion was found. UT readings (BOP-287) found the Primary Containment liner thickness to be above the 1 inch minimum allowable thickness.

Inaccessible areas are located under the 6 foot wide air duct at the 90° azimuth and 270° azimuth. Liner pitting has been the result of moisture entrapment. Due to age and/or damage, the seal separates from the liner allowing moisture, if present, to get between the seal and liner. Based on past inspection, the seal under the duct has not separated from the liner until the U2C13 outage. Since there was not any moisture or water in the areas identified, and during plant operation the atmosphere is inerted with nitrogen and there will be some remaining ligament in the seal barrier, it is concluded that seal barrier will perform its intended function. Therefore, the present condition should be acceptable for continued use.

(3) Description of necessary corrective actions:

No other corrective actions are necessary.

ADDITIONAL EXAMINATIONS 10CFR50.55a(b)(2)(ix)(D)

(1) Description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation:

NOI U2C13-004 documents conditions noted during VT-3 examination of the steel Primary Containment liner in areas where the moisture seal barrier was removed. This examination was performed because the normally inaccessible area was exposed during repair of the moisture seal barrier. The reported conditions consist of pitting and corrosion.

(2) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components:

Inaccessible areas are located under the 6 foot wide air duct at the 90° azimuth and 270° azimuth. Liner pitting has been the result of moisture entrapment. Due to age and/or damage, the seal separates from the liner allowing moisture, if present, to get between the seal and liner. Based on past inspection, the seal under the duct has not separated from the liner until the U2C13 outage. Since there was not any moisture or water in the areas identified, and during plant operation the atmosphere is inerted with nitrogen and there will be some remaining ligament in the seal barrier, it is concluded that seal barrier will perform its intended function. Therefore, the present condition should be acceptable for continued use.

(3) A description of the necessary corrective actions:

Pitting was found in the Primary Containment liner in selected locations behind the moisture seal barrier. This pitting is located in the top 2/3 of the 2 inch deep "V" groove. No active corrosion was found. UT readings (BOP-287) found the Primary Containment liner thickness to be above the 1 inch minimum allowable thickness. No corrective actions are necessary.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

(4) The number and type of additional examinations to ensure detection of similar degradation in similar components:

In all locations where the moisture seal barrier was removed the liner has been checked for pitting. Pitting depths have been measured to determine loss of liner thickness. In no case has the minimum allowable thickness of one inch been reached. No additional examinations are required.

NOI No: U2C13-005 | Report No: CISI-213-005 | Component: Drywell Liner Elevation 616 ft.

Condition/Indication: Loose flaking paint identified on shell prior to scrape back to sound coating.

EVALUATION OF INACCESSIBLE AREAS 10CFR50.55a(b)(2)(ix)(A)

(1) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:

NOI U2C13-005 and Report CISI-213-005 document conditions noted during VT-3 examination of the steel Primary Containment Drywell at elevation 616 ft. in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of loose flaking paint.

(2) Evaluation of each area, and the result of the evaluation:

The coating failure identified during the U2C13 RFO is the result of oxidation of the zinc primer coat. The protective function of the zinc primer is sacrificial and in time, oxidation will occur in all areas, accessible and inaccessible, resulting in delamination of the epoxy top coat. The loss of the top coat is not expected to be detrimental to the steel liner in the accessible areas because the remaining zinc primer, the nitrogen atmosphere during operation, and the absence of moisture/moisture retaining crevasses on the Liner wall will provide corrosion protection for the primary containment boundary.

(3) Description of necessary corrective actions:

The areas of coating failure (e.g., delamination, peeling, blistering, etc.) were scraped back until proper adhesion (sound coating) was obtained. In areas where scrape back was performed the zinc primer is intact and will provide corrosion protection for the primary containment boundary. The areas of coating failure have been documented and are being tracked in the plant corrective action program (PER 80430).

ADDITIONAL EXAMINATIONS 10CFR50.55a(b)(2)(ix)(D)

(1) Description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation:

NOI U2C13-005 and Report CISI-213-005 document conditions noted during VT-3 examination of the steel Primary Containment Drywell at elevation 616 ft. in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of loose flaking paint.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

(2) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components:

The coating failure identified during the U2C13 RFO is the result of oxidation of the zinc primer coat. The protective function of the zinc primer is sacrificial and in time, oxidation will occur in all areas, accessible and inaccessible, resulting in delamination of the epoxy top coat. The loss of the top coat is not expected to be detrimental to the steel liner in the accessible areas because the remaining zinc primer, the nitrogen atmosphere during operation, and the absence of moisture/moisture retaining crevasses on the Liner wall will provide corrosion protection for the primary containment boundary.

(3) A description of the necessary corrective actions:

The areas of coating failure (e.g., delamination, peeling, blistering, etc.) were scraped back until proper adhesion (sound coating) was obtained. In areas where scrape back was performed the zinc primer is intact and will provide corrosion protection for the primary containment boundary. The areas of coating failure have been documented and are being tracked in the plant corrective action program (PER 80430).

(4) The number and type of additional examinations to ensure detection of similar degradation in similar components:

During the previous U2C12 outage, 100% of the accessible areas of the Drywell Liner received a general visual examination and all areas identified were corrected as required. During this outage, U2C13, coating examinations in accordance with 0-TI-417 were performed in 100% of the accessible areas of the Drywell Liner. This NOI documents recordable conditions in areas before coating repairs were initiated. No additional examinations are required.

NOI No: U2C13-006 Report No: CISI-213-008 Component: Drywell Liner Elevation 563 ft.

Condition/Indication: Blistering and flaking coating on Drywell liner elevation 563 ft.

EVALUATION OF INACCESSIBLE AREAS 10CFR50.55a(b)(2)(ix)(A)

(1) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:

NOI U2C13-006 and Report CISI-213-008 document conditions noted during VT-3 examination of the steel Primary Containment Drywell at elevation 563 ft. in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of blistering and flaking coating.

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CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

(2) Evaluation of each area, and the result of the evaluation:

The coating failure identified during the U2C13 RFO is the result of oxidation of the zinc primer coat. The protective function of the zinc primer is sacrificial and in time, oxidation will occur in all areas, accessible and inaccessible, resulting in delamination of the epoxy top coat. The loss of the top coat is not expected to be detrimental to the steel liner in the accessible areas because the remaining zinc primer, the nitrogen atmosphere during operation, and the absence of moisture/moisture retaining crevasses on the Liner wall will provide corrosion protection for the primary containment boundary.

(3) Description of necessary corrective actions:

The areas of coating failure (e.g., delamination, peeling, blistering, etc.) were scraped back until proper adhesion (sound coating) was obtained. In areas where scrape back was performed the zinc primer is intact and will provide corrosion protection for the primary containment boundary. The areas of coating failure have been documented and are being tracked in the plant corrective action program (PER 80430).

ADDITIONAL EXAMINATIONS 10CFR50.55a(b)(2)(ix)(D)

(1) Description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation::

NOI U2C13-006 and Report CISI-213-008 document conditions noted during VT-3 examination of the steel Primary Containment Drywell at elevation 616 ft. in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of loose flaking paint.

(2) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components:

The coating failure identified during the U2C13 RFO is the result of oxidation of the zinc primer coat. The protective function of the zinc primer is sacrificial and in time, oxidation will occur in all areas, accessible and inaccessible, resulting in delamination of the epoxy top coat. The loss of the top coat is not expected to be detrimental to the steel liner in the accessible areas because the remaining zinc primer, the nitrogen atmosphere during operation, and the absence of moisture/moisture retaining crevasses on the Liner wall will provide corrosion protection for the primary containment boundary.

(3) A description of the necessary corrective actions:

The areas of coating failure (e.g., delamination, peeling, blistering, etc.) were scraped back until proper adhesion (sound coating) was obtained. In areas where scrape back was performed the zinc primer is intact and will provide corrosion protection for the primary containment boundary. The areas of coating failure have been documented and are being tracked in the plant corrective action program (PER 80430).

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

(4) The number and type of additional examinations to ensure detection of similar degradation in similar components:

During the previous U2C12 outage, 100% of the accessible areas of the Drywell Liner received a general visual examination and all areas identified were corrected as required. During this outage, U2C13, coating examinations in accordance with 0-TI-417 were performed in 100% of the accessible areas of the Drywell Liner. This NOI documents recordable conditions in areas before coating repairs were initiated. No additional examinations are required.

NOI No: U2C13-007 Report No: N/A Component: N/A

Condition/Indication: This NOI was voided.

NOI No: U2C13-008 Report No: CISI-213-012 Component: Penetration 2-X-5G

Condition/Indication: Flaking and bubbled paint near bottom end of penetration.

EVALUATION OF INACCESSIBLE AREAS 10CFR50.55a(b)(2)(ix)(A)

(1) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:

NOI U2C13-008 and Report CISI-213-012 document conditions noted during VT-3 examination of the steel Primary Containment Penetration 2-X-5G in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of flaking and bubbled coating.

(2) Evaluation of each area, and the result of the evaluation:

During the Unit 2 recovery coating repair was performed within the Main Vent Line and Vent Header. The repair coating used was Valspar 78 which was being applied over Plastite 7107. During application the configuration of the surface being repaired resulted in a thin (less than 3 mils) overspray coat of paint being applied to a surface that did not receive/require surface preparation. These areas are small in area (less than 1 sq. ft.) and over time will delaminate. Sound coating does exist under the overspray coat.

(3) Description of necessary corrective actions:

The coating failure identified during the U2C13 RFO is the result of moisture intrusion through pinholes in the coating. The pinholes are random in location and will continue to develop with time (age of coating). With minimal moisture and the nitrogen atmosphere during operation, corrosion of the steel should not occur or be very light. Coating adhesion will be lost, so continued surveillance under 0-TI-417 will be performed for the removal of loose coatings. Active corrosion cells were not found.

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1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

ADDITIONAL EXAMINATIONS 10CFR50.55a(b)(2)(ix)(D)

(1) Description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation:

NOI U2C13-008 and Report CISI-213-012 document conditions noted during VT-3 examination of the steel Primary Containment Penetration 2-X-5G in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of flaking and bubbled coating.

(2) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components:

During the Unit 2 recovery coating repair was performed within the Main Vent Line and Vent Header. The repair coating used was Valspar 78 which was being applied over Plastite 7107. During application the configuration of the surface being repaired resulted in a thin (less than 3 mils) overspray coat of paint being applied to a surface that did not receive/require surface preparation. These areas are small in area (less than 1 sq. ft.) and over time will delaminate. Sound coating does exist under the overspray coat.

(3) A description of the necessary corrective actions:

The coating failure identified during the U2C13 RFO is the result of moisture intrusion through pinholes in the coating. The pinholes are random in location and will continue to develop with time (age of coating). With minimal moisture and the nitrogen atmosphere during operation, corrosion of the steel should not occur or be very light. Coating adhesion will be lost, so continued surveillance under 0-TI-417 will be performed for the removal of loose coatings. Active corrosion cells were not found.

(4) The number and type of additional examinations to ensure detection of similar degradation in similar components:

During the U2C12 outage, 100% of the accessible areas of the Vent Lines received a general visual examination and all areas identified were corrected as required. During the U2C13 outage, coating examinations in accordance with 0-TI-417 were performed in 100% of the accessible areas of the Vent Lines. This NOI documents recordable indication n areas before coating repairs were initiated. No additional examinations are required.

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CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

NOI No: U2C13-009 Report No: CISI-213-015 Component: Main Vent Line and Vent Header

Condition/Indication: Blistered coating found on Main Vent Line and Vent Header surfaces.

EVALUATION OF INACCESSIBLE AREAS 10CFR50.55a(b)(2)(ix)(A)

(1) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:

NOI U2C13-009 and Report CISI-213-015 document conditions noted during VT-3 examination of the steel Primary Containment Main Vent Line and Vent Header in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of flaking and bubbled coating.

(2) Evaluation of each area, and the result of the evaluation:

The blisters in the coating in the Main Vent Line and Vent Header are the result of age and mechanical damage. Minor scrape back with no pitting found in substrate.

(3) Description of necessary corrective actions:

The coating failure identified during the U2C13 RFO is the result of moisture intrusion through pinholes in the coating. The pinholes are random in location and will continue to develop with time (age of coating). With minimal moisture and the nitrogen atmosphere during operation, corrosion of the steel should not occur or be very light. Coating adhesion will be lost, so continued surveillance under 0-TI-417 will be performed for the removal of loose coatings. Active corrosion cells were not found.

ADDITIONAL EXAMINATIONS 10CFR50.55a(b)(2)(ix)(D)

(1) Description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation:

NOI U2C13-009 and Report CISI-213-015 document conditions noted during VT-3 examination of the steel Primary Containment Main Vent Line and Vent Header in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of flaking and bubbled coating.

(2) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components:

The blisters in the coating in the Main Vent Line and Vent Header are the result of age and mechanical damage. Minor scrape back with no pitting found in substrate.

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CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

(3) A description of the necessary corrective actions:

The coating failure identified during the U2C13 RFO is the result of moisture intrusion through pinholes in the coating. The pinholes are random in location and will continue to develop with time (age of coating). With minimal moisture and the nitrogen atmosphere during operation, corrosion of the steel should not occur or be very light. Coating adhesion will be lost, so continued surveillance under 0-TI-417 will be performed for the removal of loose coatings. Active corrosion cells were not found.

(4) The number and type of additional examinations to ensure detection of similar degradation in similar components:

During the U2C12 outage, 100% of the accessible areas of the Vent Lines received a general visual examination and all areas identified were corrected as required. During the U2C13 outage, coating examinations in accordance with 0-TI-417 were performed in 100% of the accessible areas of the Vent Lines. This NOI documents recordable indication n areas before coating repairs were initiated. No additional examinations are required.

NOI No: U2C13-010 | Report No: CISI-213-018 | Component: Torus Shell Interior - Immersion Zone

Condition/Indication: 15 of 16 Bays had at least one pit over 3 mils or greater and a few areas of blistering of

1/4" to 1/8" diameter. A few fractured blisters have been repaired.

EVALUATION OF INACCESSIBLE AREAS 10CFR50.55a(b)(2)(ix)(A)

(1) Description of the type and estimated extent of degradation, and the conditions that led to the degradation:

NOI U2C13-010 and Report CISI-213-018 document conditions noted during VT-3 examination of the steel Primary Containment Torus interior immersion zone in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of pits and blisters in the coating.

(2) Evaluation of each area, and the result of the evaluation:

Due to elevated dose rates around the spent filters and equipment used in the sludge removal operation, plates 1, 2, 3, and 4 of Bay 9 were considered inaccessible. In the areas that were examined, three coating degradations were found, mechanical damage, pitting, and blisters.

Areas of mechanical damage found have been few and small in size. These areas were the result of removal of scaffolding and equipment during the Unit 2 recovery. Pitting that was found is random and is the result of holidays (pin holes) within the coating system that has developed since application. Areas of blisters found are few. The blisters are the result of improper surface cleaning during coating application. Current inspections show that the improper surface cleaning was random and small in size.

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1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

Only spot corrosion was found in the areas of Bay 9 that were inspected (plates 5, 6, &7) and none of the indications were significant enough for quantitative measurement. During the U2C11 RFO, April 2001, all pits with a metal loss great than 30 mils were cleaned and recoated. Therefore, unacceptable coating degradation is not expected to be found in the inaccessible areas.

(3) Description of necessary corrective actions:

Loose coating around areas of mechanical damage, pits and fractured blisters was scraped back until proper coating adhesion was obtained. Substrate damage and or pits with a metal loss of 25 mils or greater were cleaned and repaired with coating system SL-1-110, a qualified coating system specified in G-55. No additional corrective actions are required.

ADDITIONAL EXAMINATIONS 10CFR50.55a(b)(2)(ix)(D)

(1) Description of each flaw or area, including the extent of degradation, and the conditions that led to the degradation:

NOI U2C13-010 and Report CISI-213-018 document conditions noted during VT-3 examination of the steel Primary Containment Torus interior immersion zone in areas identified for coating removal by the Coatings Program. This examination was performed to satisfy the requirements of IWE-2500(b), examination of coating prior to removal. The reported conditions consist of pits and blisters in the coating.

(2) The acceptability of each flaw or area, and the need for additional examinations to verify that similar degradation does not exist in similar components:

Due to elevated dose rates around the spent filters and equipment used in the sludge removal operation, plates 1, 2, 3, and 4 of Bay 9 were considered inaccessible. In the areas that were examined, three coating degradations were found, mechanical damage, pitting, and blisters.

Areas of mechanical damage found have been few and small in size. These areas were the result of removal of scaffolding and equipment during the Unit 2 recovery. Pitting that was found is random and is the result of holidays (pin holes) within the coating system that has developed since application. Areas of blisters found are few. The blisters are the result of improper surface cleaning during coating application. Current inspections show that the improper surface cleaning was random and small in size.

Only spot corrosion was found in the areas of Bay 9 that were inspected (plates 5, 6, &7) and none of the indications were significant enough for quantitative measurement. During the U2C11 RFO, April 2001, all pits with a metal loss great than 30 mils were cleaned and recoated. Therefore, unacceptable coating degradation is not expected to be found in the inaccessible areas.

OFFICE OF NUCLEAR POWER P.O. BOX 2000

1101 MARKET STREET DECATUR, ALABAMA 35602

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CERTIFICATE OF AUTHORIZATION: NOT REQUIRED.

COMMERCIAL SERVICE DATE: MARCH 1, 1975

NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED.

(3) A description of the necessary corrective actions:

Loose coating around areas of mechanical damage, pits and fractured blisters was scraped back until proper coating adhesion was obtained. Substrate damage and or pits with a metal loss of 25 mils or greater were cleaned and repaired with coating system SL-1-110, a qualified coating system specified in G-55. No additional corrective actions are required.

(4) The number and type of additional examinations to ensure detection of similar degradation in similar components:

All 16 Torus Bays and ring girders below water line, except plates 1, 2, 3 and 4 of Bay 9, were examined this refueling outage. All similar accessible areas were examined, therefore, no additional examinations are required.

February 01, 2005

Sam Flood, ANVANII, PEC-1C, BFN

BROWNS FERRY NUCLEAR PLANT (BFN) - UNIT 2 CYCLE 13 REFUELING OUTAGE CONTAINMENT INSERVICE INSPECTION (CISI) SCAN PLAN REV 000

TO

Attached for your review is the BFN Unit 2 Cycle 13 Refueling Outage CISI Scan Plan, Revision 000, for the examinations to be performed for the current Unit 2 outage by BFN Site Engineering/Components Engineering. These examinations are being performed to satisfy the requirements of ASME Section XI Code, Subsection IWE, 1992 Edition and 1992 Addenda.

This document was prepared by Fred Nilsen of BFN Components Engineering and forwarded to Matthew Welch and Fred Froscello of TVAN Inspection Services Organization (ISO) as notification of work scope.

BFN Components Engineering

Matthew C. Welch

BFN ISO, NDE Level III

Them C. Weld-

BFN ISO, ISLANDE Supervisor

Sam Flood ANI/ANII

Concurrence

cc: R. K. Golub, SAB-1B, BFN M. L. Tumbow, STC-11, SQN

Revision 000 03/02/2005

Total Examinations: 19

TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 IWE EXAMS SCHEDULED FOR CYCLE 13

SYSTEM	WELDNO	SEGMENT	ISONO	CYCLE	ПЕМНО	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESI
scv	MSB-2-1		41N720	13	E5.30	E-D	92E-92	V7:-3	N-VT-15	•				
SCA	MSI3-2-2		41N720	13	E5.30	E-D	92E-92	VT-3	N-VT-15					
SCV	MSB-2-3		41N720	13	E5.30	E-D	92E-92	VT-3	N-VT-15					
SCV	PSC INT 2-11-10C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09					
SCV	PSC INT 2-II-11C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09				•	
SCV	PSC INT 2-II-12C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09					
SCV	PSC INT 2-II-13C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09					
SCA	PSC 1NT 2-13-14C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09					
SCV	PSC INT 2-B-15C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09					
SCV	PSC INT 2-B-16C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09					
SCV	PSC INT 2-I3-IC		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09					
scv	PSC INT 2-I3-2C		BI-N-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09					
SCV	PSC INT 2-13-3C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09	•				
scv	PSC INT 2-IJ-4C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09-					
SCV	PSC INT 2-II-5C		BEN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09					
SCV	PSC INT 2-11-6C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09					
scv	PSC INT 2-11-7C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09.			•		
SCV	PSC INT 2-B-8C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09					
SCV	PSC INT 2-13-9C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10 09					

March 23, 2005

Sam Flood, ANI/ANII, PEC-1C, BFN

BROWNS FERRY NUCLEAR PLANT (BFN) - UNIT 2 CYCLE 13 REFUELING OUTAGE CONTAINMENT INSERVICE INSPECTION (CISI) SCAN PLAN REV 001

Attached for your review is the BFN Unit 2 Cycle 13 Refueling Outage CISI Scan Plan, Revision 001, for the examinations to be performed for the current Unit 2 outage by BFN Site Engineering/Components Engineering. These examinations are being performed to satisfy the requirements of ASME Section XI Code, Subsection IWE, 1992 Edition and 1992 Addenda.

This document was prepared by Fred Nilsen of BFN Components Engineering and forwarded to Matthew Welch and Fred Froscello of TVAN Inspection Services Organization (ISO) as notification of work scope.

D. Kelvin Green

BFN Components Engineering

Matthew C. Welch

BFN ISO, NDE Level III

Thun C. Well

Frederick W. Froscello Jr.

BFN ISO, ISI/NDE Supervisor

Sam Flood ANI/ANII

Concurrence

cc: R. K. Golub, SAB-1B, BFN

M. L. Turnbow, STC-11, SQN

Revision 001 03/23/2005

TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2
IWE EXAMS SCHEDULED FOR CYCLE 13

Total Examinations: 19

SYSTEM	WELDNO	SEGMENT	ISONO	CYCLE	TEMNO	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESB
scv	MSB-2-1		41N720	13	E5.30	E-D	92E-92	VT-3	N-VT-15		····			
SCV	MSB-2-2		41N720	13	E5.30	E-D	92E-92	VT-3	N-VT-15					
SCV	MSB-2-3		41N720	13	E5.30	E-D	92E-92	VT-3	N-VT-15					
SCV	PSC INT 2-B-10C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A		•			
SCV	PSC INT 2-B-11C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-12C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A.					
SCV	PSC INT 2-B-13C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
scv	PSC INT 2-B-14C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09A					
SCV	PSC INT 2-B-15C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-16C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-1C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-2C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-3C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-4C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-5C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
scv	PSC INT 2-B-6C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-7C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
scv	PSC INT 2-B-8C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP-10.09A					
scv	PSC INT 2-B-9C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					

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Sam Flood, ANI/ANII, PEC-1C, BFN

BROWNS FERRY NUCLEAR PLANT (BFN) – UNIT 2 CYCLE 13 REFUELING OUTAGE CONTAINMENT INSERVICE INSPECTION (CISI) SCAN PLAN REV 002

Attached for your review is the BFN Unit 2 Cycle 13 Refueling Outage CISI Scan Plan, Revision 002, for the examinations to be performed for the current Unit 2 outage by BFN Site Engineering/Components Engineering. These examinations are being performed to satisfy the requirements of ASME Section XI Code, Subsection IWE, 1992 Edition and 1992 Addenda.

This document was prepared by Fred Nilsen of BFN Components Engineering and forwarded to Matthew Welch and Fred Froscello of TVAN Inspection Services Organization (ISO) as notification of work scope.

D. Kelvin Green

BFN Components Engineering

Matthew C. Welch

BFN ISO, NDE Level III

BFN ISO, ISI/NDE Supervisor

Frederick W. Froscello Jr.

Sam Flood ANI/ANII

Concurrence

cc: R. K. Golub, SAB-1B, BFN

M. L. Turnbow, STC-11, SQN-

Revision 002 04/13/2005

Total Examinations: 98

TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 IWE EXAMS SCHEDULED FOR CYCLE 13

SYSTEM	WELDNO	SEGMENT	ISONO	CYCLE	ITEMNO	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESB
SCV	DW LNR-2-1		2-719E532-4	13	E1.12	E-A	92E-MS	VT-3	N-VT-15					
SCV	DW LNR-2-2		BFN-CISI-010&11	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	DW LNR-2-2		BFN-CISI-010&11	13	N/A .	N/A	92E-PC	VT-3	N-VT-15					
SCV	DW LNR-2-3		BFN-CISI-010&11	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	DW LNR-2-3		BFN-CISI-010&11	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	DW LNR-2-3		BFN-CISI-010&1	1 13	N/A	N/A	P92-01	VT-3	N-VT-15					
SCV	DW LNR-2-3		BFN-CISI-010&1	l 13	N/A	N/A	P92-01	VT-3	N-VT-15					
SCV	DW LNR-2-5		BFN-CISI-010&1	1 13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	DW LNR-2-5		BFN-CISI-010&1	l 13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	MSB-2-1		41N720	13	E5.30	E-D	92E-92	VT-3	N-VT-15					
SCV	MSB-2-1		41N720	13	E5.30	E-D	P92-92	VT-3	N-VT-15					
SCV	MSB-2-2		41N720	13	E5.30	E-D	92E-92	VT-3	N-VT-15					
SCV	MSB-2-2		41N720	13	E5.30	E-D	P92-92	· VT-3	N-VT-15					
SCV	MSB-2-3		41N720	13	E5.30	E-D	92E-92	VT-3	N-VT-15					
SCV	MSB-2-3		41N720	13	E5.30	E-D	P92-92	VT-3	N-VT-15					
SCV	PEN 2-X-5G	•	BFN-CISI-015	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PEN 2-X-5G		BFN-CISI-015	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-10A		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-10B		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-10B		BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-10C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-11A		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-11B		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-11B		BFN-CISI-007	13	NA	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-11C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-12A		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-12A		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-12A		BFN-CISI-007	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-12B		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-12B		BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-12C		BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-13A		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV .	PSC INT 2-B-13A		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-13A		BFN-CISI-007	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-13B		BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					

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SYSTEM	1 WELDNO	SEGMENT ISONO	CYCLE	TEMNO	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESB
scv	PSC INT 2-B-13B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-13C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09A					
SCV	PSC INT 2-B-14A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-14A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-14A	BFN-CISI-007	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-14B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-14B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-14C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-15A	BFN-CISI-007	سر13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-15A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-15A	BFN-CISI-007	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-15B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-15B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-15C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-16A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-16A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-16A	BFN-CISI-007	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-16B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					•
SCV	PSC INT 2-B-16B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-16C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-1A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-1B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-1B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-1C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09A					
SCV	PSC INT 2-B-2A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-2A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-2A	BFN-CISI-007	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-2B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-2B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-2C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-I	QP.10.09A					
SCV	PSC INT 2-B-3A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-3A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					•
SCV	PSC INT 2-B-3A	BFN-CISI-007	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-3B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-3B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-3C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-4A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-4A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-4A	BFN-CISI-007	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-4B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
		•											

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SYSTE	M WELDNO	SEGMENT ISONO	CYCLI	TTEMNO	CATEGORY	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA	NOMTHCK	COMPDESA	COMPDESB
SCV	PSC INT 2-B-4B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-4C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-5A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-5B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-5B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-5C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-6A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-6B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-6B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-6C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-7A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-7B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
scv	PSC INT 2-B-7B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-7C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-8A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-8A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-8A	BFN-CISI-007	13	N/A	N/A	92E-PC	VT-3	N-VT-15					
SCV	PSC INT 2-B-8B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-8B	BFN-CISI-007	13	N/A	N/A	P92-01	VT-3	QP.10.09A					
SCV	PSC INT 2-B-8C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					
SCV	PSC INT 2-B-9A	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	N-VT-15					
SCV	PSC INT 2-B-9B	BFN-CISI-007	13	N/A	N/A	92E-CV	VT-3	QP.10.09A					
SCV	PSC INT 2-B-9C	BFN-CISI-007	13	E4.11	E-C	92E-92	VT-1	QP.10.09A					

SORT ORDER: SYSTEM-WELDNO
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BFN SCAN PLAN REVISION LOG

UNIT/ CYCLE	SCAN PLAN REV.	SYSTEM	COMPONENT IDENTIFIER	ASME XI	REVISION	REASON FOR REVISION	APPROVED BY ISI/NDE SIGN AND DATE	BY NDE LEVEL III SIGN AND DATE	ľ	ISI DATA BASE REVISION VERIFIED BY ISI/NDE SIGN AND DATE
413	-	5CN	PSC INT-Z-B-10C THROUGH PSC INT Z-B-16C AND PSC INT Z-B-1C THROUGH PSC INT Z-B-9C	4	CHANGE NDE PROCEDURE TO QP.10.09A (VENDOR PROC).	Vendor Revised	123/05 2017/Euri 4-13-05	Marikales.	Markales	4.323/05
413	2	sul	DWLNR-Z-1 -2-2 -2-3 DWLNR -2-3	4	ADD COMPONENTS TO BZC13 RFO: DWLDR-Z-1; EXTEQ 92E-MS DWLDR-Z-Z TO -Z-S; EXTEQ'S 9ZE-CV : 9ZE-PC DULUR-Z-3; EXTEQ P9Z-01	SCOPE EXPANSION	Martigon Alizlos Golut. Zeni 4-13-05	Marilales	Marinos <	13-11-12-13-13-13-13-13-13-13-13-13-13-13-13-13-
413	3-	SCV	PENZ-X-54	4	ADD COMPONENT TO UZCI3 RFD EXREQ: 9ZE-CV : 9ZE-PC	SCOPE EXPANSION	Metaler Alteler John T. Zeurin 4-13-05	Marilyes	Marildos-	113-05 A
2/3	3-	5CV	PSC INT Z-B-10A THROUGH PSC INT Z-B-16A	Y	APP COMPONENTS TO UZCI3 RFO EXREQ: 9ZE-CV	SCOPE EXPANSION	Makan 4/12/04 Oshut Zuni 4-13-05	Mailips	Mariles.	12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -
4/3	2	SUV	PSC INTZ-B-10B TUROUGH PSC INTZ-B-16B	4	ADD COMPONENTS TO UZCI3 RFO: EXREQ: 92E-CV ? P92-01	SCOPE EXPANSION	Wort Par Alizdory Hunt-Zeurs 4-13-05	Marilla,	Markey.	The second

H SCAN PLAN REV LOG XLS

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BFN SCAN PLAN REVISION LOG

CYCLE	SCAN PLAN REV.	SYSTEM	COMPONENT IDENTIFIER	ASME XI	REVISION	REASON FOR REVISION	APPROVED BY ISI/NDE SIGN AND DATE	BY NDE LEVEL III SIGN AND DATE	ISO SIGN AND	ISI DATA BASE REVISION VERIFIED BY ISI/NDE SIGN AND DATE
413	2	SCV	PSC INT Z-B-1A THROUGH PSC INT Z-B-9A	>-	ADD COMPONENTS TO UZCI3 RFO: EXRED: 9ZE-CV, 9ZE-PC	SCOPE EXPANSION	Mek Bar 4/17/08 2/2-13-05	Mariliales	War isterlos	Arth Ho
7/13	A	SLV	PSC INT 2-B-1B THROUGH &B PSC INT 2-B-9B PSC INT 2-B-9B	γ \$	ADD COMPONENTS TO UZCI3 RFO: EXREQ: 9ZE-CV, P9Z-OI NG 5/20/05 Add EXPEQ-92E-CV	Scope Expansion	Inde par alizos inasizsios that. Zours 4-13-05 272 5-23-05	What ilsto,	May Hay	12 12/05 12/12/05
413	٦	scV	MSB-Z-1 THROVAH MSB-Z-3	У	ADD EXREQ P92-92	SCOPE EXPANSION	Make Jane Alizor Elini Zevri 413-05	Mar illides	May High	10 10 h
	PLAN REV							Duor 2 .		

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TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 CYCLE 13 IWE EXAMINATIONS FOR CODE CREDIT

04/18/2005 EXAMS:

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EXAM REQUIREMENTS: 92E-92, 92E-MS, AND P92-92

SYS	STEM	WELDNO	ISONO	CATEGORY	ITEMNO	EXREQ	EXSCIID	NDEPROC	CALSTD	COMPDIA N	NOMTHCK	EXDATE	EXAMINER	EXAMREP	RESULTS
SC	/	MSB-2-1	41N720	E-D	E5.30	92E-92	VT-3	N-VT-15				20050324	GW	CISI-213-002	F
SCV	/ 1	MSB-2-2	41N720	E-D	E5.30	92E-92	VT-3	N-VT-15		•		20050324	JAF	CISI-213-002	F
SCV	/ 1	MSB-2-3	41N720	E-D	E5.30	92E-92	VT-3	N-VT-15				20050324	GLJ	CISI-213-002	F
SCV	/	DW LNR-2-1	2-719E532-4	E-A	E1.12	92E-MS	VT-3	N-VT-15				20050326	JAF	CISI-213-007	P
sc	/	MSB-2-1	41N720	E-D	E5.30	P92-92	VT-3	N-VT-15				20040405	JAF	CISI-213-014	Р
SC	/	MSB-2-2	41N720	E-D	E5.30	P92-92	VT-3	N-VT-15				20050405	JAF	CISI-213-014	P
SC\	/	MSB-2-3	41N720	E-D	E5.30	P92-92	VT-3	N-VT-15				20050324	G₩	CISI-213-014	Р
SC\	/	PSC INT 2-B-10C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A				20050404	BTM	CISI-213-017	Р
SC	V	PSC INT 2-B-11C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10 09A				20050404	FJN	CISI-213-017	P
SC	v	PSC INT 2-B-12C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A				20050404	втм	CISI-213-017	P
SC	/	PSC INT 2-B-13C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A				20050404	FJN	CISI-213-017	P
SC	V	PSC INT 2-B-14C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10 09A				20050404	FJN	CISI-213-017	P
SC	V	PSC INT 2-B-15C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A				20050404	FJN	CISI-213-017	Ρ .
SC	٠ :	PSC INT 2-B-16C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10 09A				20050404	FJN	CISI-213-017	P
SC	v	PSC INT 2-B-1C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	OP.10.09A				20050404	FJN	CISI-213-017	Р
sc	V	PSC INT 2-B-2C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A			•	20050404	FJN	CISI-213-017	Р
SC	V	PSC INT 2-B-3C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10 09A				20050404	FJN	CISI-213-017	P
SC	V	PSC INT 2-B-4C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A	•			20050404	FJN	CISI-213-017	P
SC	V	PSC INT 2-B-5C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A				20050404	FJN	CISI-213-017	P
SC	٧	PSC INT 2-B-6C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A				20050404	FJN	CISI-213-017	Р
sc	٧	PSC INT 2-B-7C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A				20050404	FJN	CISI-213-017	Р
sc	٧	PSC INT 2-B-8C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10 09A				20050404	FJN	CISI-213-017	P
sc	٧	PSC INT 2-B-9C	BFN-CISI-007	E-C	E4.11	92E-92	VT-1	QP.10.09A				20050404	FJN	CISI-213-017	Р

TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR POWER PLANT - UNIT 2 CYCLE 13 IWE EXAMINATIONS FOR CODE CREDIT EXAM REQUIREMENTS: 92E-PC, 92E-CV, AND P92-01

04/18/2005 EXAMS:

75

·	SYSTEM	1 WELDNO	ISONO	CATEGORY	ITEMNO	EXREQ	EXSCIID		-	COMPDIA NOMTHCK EXDATE	EXAMINI	ER EXAMREP	RESULTS
	scv	DW LNR-2-2	BFN-CISI-010&11	N/A	N/A	92E-CV	VT-3	N-VT-15		20050325	JAF	CISI-213-008	F
	SCV	DW LNR-2-5	BFN-CISI-010&11	N/A	N/A	92E-CV	VT-3	N-VT-15		20050324	JAF	CISI-213-005	F
	SCV	PEN 2-X-5G	BFN-CISI-015	N/A	N/A	92E-CV	VT-3	N-VT-15		20050329	MAB	CISI-213-012	F
	scv	PSC INT 2-B-10B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP,10.09A		20050401	FJN	CISI-213-018	F
	SCV	PSC INT 2-B-11B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10 09A		20050401	FJN	CISI-213-018	F
	SCV	PSC INT 2-B-12A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050405	MAB	CISI-213-015	F
	SCV	PSC INT 2-B-12B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	OP.10 09A		20050401	FJN	CISI-213-018	F
	SCV	PSC INT 2-B-13A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050405	MAB	CISI-213-015	F
	SCV	PSC INT 2-B-13B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP,10.09A		20050401	FJN	CISI-213-018	F
	SCV	PSC INT 2-B-14A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050405	MAB	CISI-213-015	F
	scv	PSC INT 2-B-14B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10.09A		20050401	FJN	CISI-213-018	F
	SCV	PSC INT 2-B-15A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050405	MAB	CISI-213-015	F
	SCV	PSC INT 2-B-15B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10.09A		20050401	FJN	CISI-213-018	F
	SCV	PSC INT 2-B-16A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050405	MAB	CISI-213-015	F
•	SCV	PSC INT 2-B-16B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10.09A		20050401	FJN	CISI-213-018	F
	scv	PSC INT 2-B-1B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10.09A		20050401	FJN	CISI-213-018	F
	scv	PSC INT 2-B-2A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050405	MAB	CISI-213-015	F
	scv	PSC INT 2-B-2B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10.09A		20050401	FJN	CISI-213-018	F
	scv	PSC INT 2-B-3A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050405	MAB	CISI-213-015	F
	SCV	PSC INT 2-B-3B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10 09A		20050401	FJN	CISI-213-018	F
	scv	PSC INT 2-B-4A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050405	MAB	CISI-213-015	F
	scv	PSC INT 2-B-4B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10.09A		20050401	FJN	CISI-213-018	F
	scv	PSC INT 2-8-5B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10 09A		20050401	FJN	CISI-213-018	F
	SCV	PSC INT 2-B-7B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10 09A		20050401	FJN	CISI-213-018	F
	scv	PSC INT 2-B-8A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050405	MAB	CISI-213-015	F
	SCV	PSC INT 2-B-8B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10 09A		20050401	FJN	CISI-213-018	F
	SCV	DW LNR-2-2	BFN-CISI-010&11	N/A	N/A	92E-PC	VT-3	N-VT-15	•	20050325	JAF	CISI-213-009	Р
	SCV	DW LNR-2-3	BFN-CISI-010&11	N/A	N/A	92E-PC	VT-3	N-VT-15		20050322	JAF	CISI-213-003	P
	SCV	DW LNR-2-3	BFN-CISI-010&11	N/A	N/A	92E-CV	VT-3	N-VT-15		20050322	JAF	CISI-213-001	P
	scv	DW LNR-2-3	BFN-CISI-010&11	N/A	N/A	P92-01	VT-3	N-VT-15		20050322	JAF	CISI-213-003	Р
	scv	DW LNR-2-3	BFN-CISI-010&11	N/A	N/A	P92-01	VT-3	N-VT-15		20050404	MAB	CISI-213-020	Р
	scv	DW LNR-2-5"	BFN-CISI-010&11	N/A	N/A	92E-PC	VT-3	N-VT-15		20050324	JAF	CISI-213-006	Р
	scv	PEN 2-X-5G	BFN-CISI-015	N/A	N/A	92E-PC	VT-3	N-VT-15		20050329	MAB	CISI-213-013	Р
	scv	PSC INT 2-B-10A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		20050323	втм	CISI-213-004	Р
	SCV	PSC INT 2-B-10B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10.09A		20050404	FJN	CISI-213-019	Р

 SiafEM	WELDNO	ISONO	CATEGORY	ITEMNO	EXREQ	EXSCHD	NDEPROC	CALSTD	COMPDIA NOMTHCK E	EXDATE E	XAMINER	EXAMREP	RESULTS
scv	PSC INT 2-B-11A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	втм (CISI-213-004	Р
SCV	PSC INT 2-B-11B	BFN-CISI-007	N/A	NA	P92-01	VT-3	QP.10.09A		2	0050404	FJN (CISI-213-019	Р
SCV	PSC INT 2-B-12A	BFN-CISI-007	N/A	N/A	92E-PC	VT-3	N-VT-15		2	0050405	MAB (CISI-213-016	P
SCV	PSC INT 2-B-12A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	втм с	CISI-213-004	P
scv	PSC INT 2-B-12B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10 09A		2	0050404	FJN (CISI-213-019	Р
SCV	PSC INT 2-B-13A	BFN-CISI-007	NA	N/A	92E-PC	VT-3	N-VT-15		2	0050405	MAB (CISI-213-016	Р
SCV	PSC INT 2-B-13A	BFN-CISI-007	NA	N/A	92E-CV	VT-3	N-VT-15		2	0050323	втм с	CISI-213-004	Р
SCV	PSC INT 2-B-13B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP,10.09A		2	0050404	FJN (CISI-213-019	Р
SCV	PSC INT 2-B-14A	BFN-CISI-007	N/A	N/A	92E-PC	VT-3	N-VT-15		2	0050405	MAB (CISI-213-016	Р
SCV	PSC INT 2-B-14A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	втм с	CISI-213-004	P
scv	PSC INT 2-B-14B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10.09A		2	0050404	FJN (CISI-213-019	P
SCV	PSC INT 2-B-15A	BFN-CISI-007	N/A	N/A	92E-PC	VT-3	N-VT-15		2	0050405	MAB (CISI-213-016	P
SCV	PSC INT 2-B-15A	BFN-ČISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	втм с	CISI-213-004	P
SCV	PSC INT 2-B-15B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10.09A		2	0050404	FJN (CISI-213-019	P
SCV	PSC INT 2-B-16A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	BTM (CISI-213-004	Р
scv	PSC INT 2-B-16A	BFN-CISI-007	N/A	N/A	92E-PC	VT-3	N-VT-15		2	0050405	MAB (CISI-213-016	Р
SCV	PSC INT 2-B-16B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10.09A		2	0050404	FJN (CISI-213-019	Р
SCV	PSC INT 2-B-1A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	втм с	CISI-213-004	Р
SCV	PSC INT 2-B-1B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10.09A		2	0050404	втм с	CISI-213-019	P
SCV	PSC INT 2-B-2A	BFN-CISI-007	N/A	N/A	92E-PC	VT-3	N-VT-15		2	0050405	MAB (CISI-213-016	Р
SCV	PSC INT 2-B-2A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	BTM (CISI-213-004	Р
SCV	PSC INT 2-B-2B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP,10.09A		2	0050404	FJN (CISI-213-019	Р
SCV	PSC INT 2-B-3A	BFN-CISI-007	N/A	N/A	92E-PC	VT-3	N-VT-15		2	0050405	MAB (CISI-213-016	P
SCV	PSC INT 2-B-3A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	BTM (CISI-213-004	P
SCV	PSC INT 2-B-3B	BFN-CISI-007	NA	N/A	P92-01	VT-3	QP.10 09A		2	0050404	FJN (CISI-213-019	P
SCV	PSC INT 2-B-4A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	втм с	CISI-213-004	P
SCV	PSC INT 2-B-4A	BFN-CISI-007	N/A	N/A	92E-PC	VT-3	N-VT-15		2	0050405	MAB (CISI-213-016	P
scv	PSC INT 2-B-4B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10 09A		2	0050404	FJN (CISI-213-019	P
scv	PSC INT 2-B-5A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	BTM (CISI-213-004	P
SCV	PSC INT 2-B-5B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10.09A		2	0050404	FJN (CISI-213-019	P
SCV	PSC INT 2-B-6A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	BTM (CISI-213-004	P
SCV	PSC INT 2-B-6B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10.09A		2	0050401	FJN (CISI-213-018	P
SCV	PSC INT 2-B-6B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP,10.09A		2	0050404	FJN (CISI-213-019	P
SCV	PSC INT 2-B-7A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	BTM (CISI-213-004	P
scv	PSC INT 2-B-7B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10 09A		2	0050404	FJN (CISI-213-019	Р
SCV	PSC INT 2-B-8A	BFN-CISI-007	N/A	N/A	92E-PC	VT-3	N-VT-15		2	0050405	MAB (CISI-213-016	P
SCV	PSC INT 2-B-8A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	втм с	CISI-213-004	P
SCV	PSC INT 2-B-8B	BFN-CISI-007	N/A	N/A	P92-01	VT-3	QP.10.09A		2	0050404	FJN (CISI-213-019	P
SCV	PSC INT 2-B-9A	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	N-VT-15		2	0050323	BTM (CISI-213-004	P
scv	PSC INT 2-B-9B	BFN-CISI-007	N/A	N/A	92E-CV	VT-3	QP.10.09A		2	0050401	FJN (CISI-213-018	Р

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000

DECATUR, ALABAMA 35609-2000

IWE Exams

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

System	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
scv	DW LNR-2-1	2-719E532-4	92E-MS	E-A	E1.12	VT-3		20050326	CISI-213-007	Р	EXAMINER M. A. BARNETTE, W.O. 04-723986- 000. NOI# U2C13-004 "USE AS IS" CLOSED.
scv	DW LNR-2-2	BFN-CISI-010&11	92E-CV	N/A	N/A	VT-3		20050325	CISI-213-008	F	W. O. 03-003908-000
scv	DW LNR-2-2	BFN-CISI-010&11	92E-PC	N/A	N/A	VT-3		20050325	CISI-213-009	Р	CLOSES NOI# U2C13-006. W.O. 03-003908-000
scv	DW LNR-2-3	BFN-CISI-010&11	P92-01	N/A	N/A	VT-3		20050404	CISI-213-020	Р	EXAMINER J.A. FERGERSON. W.O. 03-003908- 000. PIN HOLES DISCOVERED AND REPAIRED IN NEW COATING ELEV. 584' BETWEEN CONTAIN. SPRAY RING HEADER AND 1ST GIRTH WELD BELOW SPRAY HEADER.
scv	DW LNR-2-3	BFN-CISI-010&11	92E-PC	N/A	N/A	VT-3		20050322	CISI-213-003	Р	Examiner H. B. Barnett. W.O. 03-003908-000. Closes NOI# U2C13-002.
scv	DW LNR-2-3	BFN-CISI-010&11	92E-CV	N/A	N/A	VT-3 ·		20050322	CISI-213-001	Р	EXAMINER H. B. BARNETT, W.O. 03-003908-000
scv	DW LNR-2-3	BFN-CISI-010&11	P92-01	N/A	N/A	VT-3		20050322	CISI-213-003	Р	EXAMINER H. B. BARNETT, W.O. 03-003908-000
scv	DW LNR-2-5	BFN-CISI-010&11	92E-PC	N/A	N/A	VT-3		20050324	CISI-213-006	P	W.O.03-003908-000. CLOSES NOI# U2C13-005
scv	DW LNR-2-5	BFN-CISI-010&11	92E-CV	N/A	N/A	VT-3		20050324	CISI-213-005	F	W.O. 03-003908-000
scv	MSB-2-1	41N720	92E-92	E-D	E5.30	VT-3		20050324	CISI-213-002	F	EXAMINER H. B. BARNETTE
scv	MSB-2-1	41N720	P92-92	E-D	E5.30	VT-3		20040405	CISI-213-014	Р	EXAMINER M. A. BARNETT W.O. 04-782986-000 Closes NOI# U2C13-001,
scv	MSB-2-2	41N720	92E-92	E-D	E5.30	VT-3		20050324	CISI-213-002	F	EXAMINER H. B. BARNETT
scv	MSB-2-2	41N720	P92-92	E-D	E5.30	VT-3		20050405	CISI-213-014	Р	EXAMINER M. A. BARNETTE. W.O. 04-782986- 000. CLOSES NOI# U2C13-001.
scv	MSB-2-3	41N720	P92-92	E-D	· E5.30	VT-3		20050324	CISI-213-014	P	EXAMINER M. A. BARNETTE. W.O. 04-782986- 000. CLOSES NOI# U2C13-001.
scv	MSB-2-3	41N720	92E-92	E-D	E5.30	VT-3		20050324	CISI-213-002	F	EXAMINER H. B. BARNETT.
scv	PEN 2-X-5G	BFN-CISI-015	92E-PC	N/A	N/A	VT-3		20050329	CISI-213-013	Р	W. O. 03-003908-000. CLOSES NO!# U2C13-008
scv	PEN 2-X-5G	BFN-CISI-015	92E-CV	N/A	N/A	VT-3		20050329	CISI-213-012	F	W.O03003908-000

IWE Exams

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

UNIT: TWO CYCLE: 13

PLANT: BROWNS FERRY NUCLEAR PLANT

PO BOX 2000

DECATUR, ALABAMA 35609-2000

CERTIFICATION OF AUTIIORIZATION: NOT REQUIRED NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED

System	Component Number	ISO Drawing	Exreq	Category	ltem Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
scv	PSC INT 2-B-10A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	Р	EXAMINER M. A BARNETTE. W.O. 01-010668-000. NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-10B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE, W.O. 04-723956-000.
scv	PSC INT 2-B-10B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	P	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-10C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	Р	TORUS AIR/WATER INTERFACE. W.O. 04-723956 000
scv	PSC INT 2-B-11A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	Р	EXAMINER M. A BARNETTE. W.O. 01-010668-000. NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-11B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE. W.O. 04-723956-000.
scv	PSC INT 2-B-11B	BFN-CISI-007	P92-01	N/A	NA	VT-3		20050404	CISI-213-019	P	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-11C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	P	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-12A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	Р	EXAMINER M. A BARNETTE, W.O. 01-010668-000 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-12A	BFN-CISI-007	92E-PC	N/A	N/A	VT-3		20050405	CISI-213-016	Р	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON, W.O. 03-003908- 000. CLOSES NOI# U2C13-009.
scv	PSC INT 2-B-12A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050405	CISI-213-015	F	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000.
scv	PSC INT 2-B-12B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	P	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NO!# U2C13-010.
scv	PSC INT 2-B-12B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE. W.O. 04-723956-000.
scv	PSC INT 2-B-12C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	Р	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE

COMMERCIAL SERVICE DATE: MARCH 1, 1975

04/12/2005

Page 2 of 7

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000

DECATUR, ALABAMA 35609-2000

IWE Exams

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

System	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
scv	PSC INT 2-B-13A	BFN-CISI-007	92E-PC	N/A	N/A	VT-3		20050405	CISI-213-016	Р	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000. CLOSES NOI# U2C13-009.
scv	PSC INT 2-B-13A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	Р	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-13A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050405	CISI-213-015	F	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000.
scv	PSC INT 2-B-13B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	Р	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-13B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE. W.O. 04-723956-00
scv	PSC INT 2-B-13C	BFN-CISI-007	92E-92 .	E-C	E4.11	VT-1		20050404	CISI-213-017	P	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-14A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	Р	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-14A	BFN-CISI-007	92E-PC	N/A	N/A	VT-3		20050405	CISI-213-016	Р	MAIN VENT LINES AND VENT HEADER. J.A. FERGERSON. W.O. 03-003908-000. CLOSES NOI U2C13-009.
scv	PSC INT 2-B-14A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050405	CISI-213-015	F	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON, W.O. 03-003908- 000.
scv	PSC INT 2-B-14B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050404	CISI-213-019	P	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-14B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE, W.O. 04-723956-000.
scv	PSC INT 2-B-14C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	Р	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-15A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	P	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NOI# U2C13-003 *USE AS IS* CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000

DECATUR, ALABAMA 35609-2000

IWE Exams

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

System	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
scv	PSC INT 2-B-15A	BFN-CISI-007	92E-PC	N/A	N/A	VT-3		20050405	5 CISI-213-016	P	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000. CLOSES NO!# U2C13-009.
scv	PSC INT 2-B-15A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050405	5 CISI-213-015	F	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000.
scv	PSC INT 2-B-15B	BFN-CISI-007	92E-CV	. N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE. W.O. 04-723956-0
scv	PSC INT 2-B-15B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	P	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-15C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	Р	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
SCV	PSC INT 2-B-16A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	3 CISI-213-004	P	EXAMINER M. A BARNETTE. W.O. 01-010668-00 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
SCV	PSC INT 2-B-16A	BFN-CISI-007	92E-PC	N/A	N/A	VT-3		20050405	5 CISI-213-016	P	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000. CLOSES NO!# U2C13-009.
scv	PSC INT 2-B-16A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050405	5 CISI-213-015	F	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000.
scv	PSC INT 2-B-16B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		2005040	1 CISI-213-018	F	TORUS BELOW WATERLINE.
scv	PSC INT 2-B-16B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	4 CISI-213-019	Р	TORUS BELOW WATERLINE. W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
SCV	PSC INT 2-B-16C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	4 CISI-213-017	P	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
SCV	PSC INT 2-B-1A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	3 CISI-213-004	P	EXAMINER M. A BARNETTE. W.O. 01-010668-00 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-1B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		2005040	1 CISI-213-018	F	TORUS BELOW WATERLINE, W.O. 04-723956-0
scv	PSC INT 2-B-1B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		2005040	4 CISI-213-019	Р	TORUS BELOW WATERLINE. W.O. 04-723956- 000. CLOSES NOI# U2C13-010

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000

DECATUR, ALABAMA 35609-2000

IWE Exams

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

System	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
scv	PSC INT 2-B-1C	BFN-CISI-007	92E-92	E-C	. E4.11	VT-1		20050404	CISI-213-017	Р	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-2A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	P	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-2A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050405	CISI-213-015	F	EXAMINER J. A. FERGERSON. W. O. 03-003908- 000, MAIN VENT LINES AND VENT HEADER:
scv	PSC INT 2-B-2A	BFN-CISI-007	92E-PC	N/A	N/A	VT-3		20050405	CISI-213-016	P	EXAMINER J. A. FERGERSON. W.O. 03-003908- 000. CLOSES NOI# U2C13-009. MAIN VENT LINES AND VENT HEADER.
scv	PSC INT 2-B-2B	BFN-CISI-007	P92-01	N/A	N/A	VT-3 .		20050404	CISI-213-019	Þ	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-2B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE, W.O. 04-723956-00
scv	PSC INT 2-B-2C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	P	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-3A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050405	CISI-213-015	F	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000.
scv	PSC INT 2-B-3A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	P	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-3A	BFN-CISI-007	92E-PC	N/A	N/A	VT-3		20050405	CISI-213-016	Р	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000. CLOSES NO!# U2C13-009
scv	PSC INT 2-B-3B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE. W.O. 04-723956-000.
scv	PSC INT 2-B-3B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	P	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NO!# U2C13-010.
scv	PSC INT 2-B-3C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	Р	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-4A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	P	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000

DECATUR, ALABAMA 35609-2000

CERTIFICATION OF AUTIIORIZATION: NOT REQUIRED NATIONAL BOARD NUMBER FOR UNIT: NOT REQUIRED **IWE Exams** UNIT: TWO CYCLE: 13 COMMERCIAL SERVICE DATE: MARCH 1, 1975

System	Component Number	ISO Drawing	Exreq	Category	ltem Number	Exam Scheduled	Calibration Standard	Exam Date	Exam Report	Exam Results	Comments
scv	PSC INT 2-B-4A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050405	CISI-213-015	F	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON, W.O. 03-003908- 000.
scv	PSC INT 2-B-4A	BFN-CISI-007	92E-PC	N/A	N/A	VT-3		20050405	CISI-213-016	Р	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000. CLOSES NOI# U2C13-009.
scv	PSC INT 2-B-4B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	Р	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-4B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE. W.O. 04-723956-000.
scv	PSC INT 2-B-4C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	P	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-5A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	Р	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
SCA	PSC INT 2-B-5B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	Р	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-5B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE. W.O. 04-723956-000.
scv	PSC INT 2-B-5C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	P	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-6A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	P	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NOI# U2C13-003 *USE AS IS* CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-6B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	Р	TORUS BELOW WATERLINE, W.O. 04-723956-000.
scv	PSC INT 2-B-6B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	Р	TORUS BELOW WATERLINE, W.O. 04-723956- 000. CLOSES NO!# U2C13-010.
scv	PSC INT 2-B-6C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	Р	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-7A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	3 CISI-213-004	Р	EXAMINER M. A BARNETTE. W.O. 01-010668-00X NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.

NUCLEAR POWER GROUP 1101 MARKET STREET

CHATTANOOGA, TENNESSEE 37402

PLANT: BROWNS FERRY NUCLEAR PLANT PO BOX 2000

DECATUR, ALABAMA 35609-2000

IWE Exams

UNIT: TWO CYCLE: 13

COMMERCIAL SERVICE DATE: MARCH 1, 1975

System	Component Number	ISO Drawing	Exreq	Category	Item Number	Exam Scheduled	Catibration Standard	Exam Date	Exam Report	Exam Results	Comments
scv	PSC INT 2-B-7B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE, W.O.04-723956-000
scv	PSC INT 2-B-7B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	þ	TORUS BELOW WATERLINE, W.O. 04-723956- 000, CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-7C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	P	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE
scv	PSC INT 2-B-8A	BFN-CISI-007	92E-PC	N/A	N/A	VT-3		20050405	CISI-213-016	. Ь	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000. CLOSES NOI# U2C13-009.
scv	PSC INT 2-B-8A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050405	CISI-213-015	F	MAIN VENT LINES AND VENT HEADER. EXAMINER J.A. FERGERSON. W.O. 03-003908- 000.
scv	PSC INT 2-B-8A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	P	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NO!# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-8B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	F	TORUS BELOW WATERLINE, W.O. 04-723956-000.
scv	PSC INT 2-B-8B	BFN-CISI-007	P92-01	N/A	N/A	VT-3		20050404	CISI-213-019	P	TORUS BELOW WATERLINE. W.O. 04-723956- 000. CLOSES NOI# U2C13-010.
scv	PSC INT 2-B-8C	BFN-CISI-007	92 E -92	E-C	E4.11	VT-1		20050404	CISI-213-017	P	W.O. 04-723956-000. TORUS AIRWATER INTERFACE
scv	PSC INT 2-B-9A	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050323	CISI-213-004	Р	EXAMINER M. A BARNETTE. W.O. 01-010668-000 NOI# U2C13-003 "USE AS IS" CLOSED. TORUS DOWNCOMERS ABOVE WATERLINE.
scv	PSC INT 2-B-9B	BFN-CISI-007	92E-CV	N/A	N/A	VT-3		20050401	CISI-213-018	Р	TORUS BELOW WATERLINE. W.O. 04-723956-000.
scv	PSC INT 2-B-9C	BFN-CISI-007	92E-92	E-C	E4.11	VT-1		20050404	CISI-213-017	P	W.O. 04-723956-000. TORUS AIR/WATER INTERFACE

ENCLOSURE 2

TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 2

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), SECTION XI, THIRD TEN-YEAR INSPECTION INTERVAL

REPAIR AND REPLACEMENT PROGRAM

SUMMARY REPORT (NIS-2) FOR CYCLE 13 OPERATION

(SEE ATTACHED)

BROWNS FERRY NUCLEAR PLANT

UNIT 2 CYCLE 13

ASME SECTION XI

NIS-2 OWNER'S REPORT

OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

APPENDIX I	Summary of Repair and
	Replacement Activities
APPENDIX II	Form NIS-2 Owner's Report
	For Repairs or Replacements

1101 Market Street

Chattanooga, TN 37402-2801

Plant: Browns Ferry Nuclear Plant

P. O. Box 2000

Decatur, AL 35609-2000

Unit: Two Certificate of Authorization: Not Required

Commercial Service Date: March 1, 1975

National Board Number for Unit: Not Required

APPENDIX I

SUMMARY OF REPAIR AND REPLACEMENT ACTIVITIES

1101 Market Street

Chattanooga, TN 37402-2801

Plant: Browns Ferry Nuclear Plant

P. O. Box 2000

Decatur, AL 35609-2000

Unit: Two

Certificate of Authorization:

Not Required

Commercial Service Date:

March 1, 1975

National Board Number for Unit:

Not Required

WID	SYS	<u>ORG</u>	CLASS	<u>ACTIVITY</u>
04-712068-000	071	MAINT	2	REPLACEMENT
04-712069-000	073	MAINT	2	REPLACEMENT
04-712613-001 04-712613-002	001	MAINT	2	REPLACEMENT
04-720770-000 through 04-720770-004 05-713848-000	085	MAINT	2	REPLACEMENT
04-720767-000	085	TVA	· 1	REPLACEMENT
04-718533-000 through 04-718533-019	001	MAINT	1 & 2	REPLACEMENT
04-718528-000	003	TVA	1 .	REPLACEMENT
03-022883-000 03-022883-002	010	TVA	1.	MODIFICATION
04-716165-000 04-716165-001	073	TVA	2	MODIFICATION
04-717654-000	001	TVA	1	MODIFICATION
04-718364-000	068	MAINT	1	REPLACEMENT
04-720057-000 04-720057-002	001	TVA	1	MODIFICATION

1101 Market Street

Chattanooga, TN 37402-2801

Plant: Browns Ferry Nuclear Plant P. O. Box 2000

Decatur, AL 35609-2000

Unit: Two Certificate of Authorization:

Not Required

Commercial Service Date:

March 1, 1975

National Board Number for Unit:

Not Required

WID	SYS	ORG	CLASS	ACTIVITY
04-720786-000 04-720786-002 04-720788-000	006	TVA	2	MODIFICATION
05-713340-000	074	MAINT	2	REPLACEMENT
05-713699-000	074	MAINT	2	REPLACEMENT
01-004739-000	074	MAINT	2	REPLACEMENT
00-011219-001 03-004245-001 03-004255-000 03-004268-000	001	MAINT	1	REPLACEMENT
03-006432-000	073	MAINT	2	REPLACEMENT
04-711639-000	001	MAINT	2	REPLACEMENT

1101 Market Street

Chattanooga, TN 37402-2801

Plant: Browns Ferry Nuclear Plant

P. O. Box 2000

Decatur, AL 35609-2000

Unit: Two

Certificate of Authorization:

Not Required

Commercial Service Date:

March 1, 1975

National Board Number for Unit:

Not Required

LEGEND

WID - Work Implementing Document

Example:

A99999A or 50000A refers to a Design Change Notice

99-99999-999 refers to a Work Order

SYS-System

001 - Main Steam 069 - Reactor Water Cleanup

003 - Reactor Feedwater
 006 - Heater Drains & Vents
 071 - Reactor Core Isolation Cooling
 073 - High Pressure Coolant Injection

008 - Turbine Drains 074 - Residual Heat Removal

010 - Reactor Drains, Vents 075 - Core Spray

and Blowdown 085 - Control Rod Drive

063 - Standby Liquid Control 092 - Neutron Monitoring

068 - Reactor Water Recirculation

ORG - Organization which performed the WID

MAINT - TVA's Maintenance Organization

GE - General Electric Company

TVA - Work performed by Stone and Webster Engineering Corporation or Framatome utilizing TVA's Quality Assurance Program and procedures

CLASS - Refers to ASME Code Class 1 or 2

ACTIVITY - Classifies work activity as being repair, replacement or modification

1101 Market Street

Chattanooga, TN 37402-2801

Plant: Browns Ferry Nuclear Plant

P. O. Box 2000

Decatur, AL 35609-2000

Unit: Two

Certificate of Authorization:

Not Required

Commercial Service Date:

March 1, 1975

National Board Number for Unit:

Not Required

APPENDIX II

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

1101 Market Street

Chattanooga, TN 37402-2801

Plant: Browns Ferry Nuclear Plant

P. O. Box 2000

Decatur, AL 35609-2000

Unit: Two

Certificate of Authorization:

Not Required

Commercial Service Date:

March 1, 1975

National Board Number for Unit:

Not Required

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

1. Owner Tennessee	Valley Authority (TVA)			Date	June 3,	2005			
1101 Mark	et Street		_						-
Chattanoo	ga, TN 37402-2801		_	Sheet	1	of	1		
-	Address					-	,	•	
2. Plant Browns Fe	erry Nuclear Plant (BFN	<u>) :</u> · · · ·	·	Unit	2 :	<u> </u>		· 	<u>.</u>
P. O. Box	2000, Decatur, AL 350 Address	509-2000	_ :	Work (Order (WC			0 n P.O. No., Job No., e	to .
3. Work Performed by				Type C	ode Symb				
	Name 2000, Decatur, AL 350	609-2000			zation No.				
1.0.5	Address				ion Date	N/A	•		
		•	, .	Expirau	··· Dalo	187	_		
4. Identification of Syste	m System 071, Read	ctor Core Isolation C	cooling (RCI	C) System	(ASME C	ode Cla	iss 2 equi	valent)	
		- -					~		
5. (a) Applicable Constr	uction Code USAS B	31.1.0 19	67 * Edi	ition,	N/A	A	ddenda,	N/A C	ode Case
(b) Applicable Edition	of Section XI Utilized for	r Repairs or Replace	ements 19	95 Edition.	1996 Add	lenda	•	· .	•
()			-				•		
6. Identification of Comp	onents	•						,-	
	<u> </u>			 			T .	· '	I
						·.	٠.		ASME
			National		٠	٠		Corrected,	Code Stamped
Name of Component	Name of Manufacturer	Manufacturer Serial No.	Board No.	lde	Other Intification		Year Built	Removed, or Installed	(Yes or No)
RCIC Turbine Exhaust Rupture Disc	Fike Metal Products 8-CPV-C-BT	Lot# 0113039	N/A	2-RPI	D-071 - 001	1A -	NA	Replaced	No
RCIC Turbine Exhaust Rupture Disc	Fike Metal Products 8-CPV-C-BT	Lot # 0113039	N/A	2-RPI	D-071-001	1A	NA	Replacement	No
					· •		· · ·		
					,				
				<u> </u>					<u> </u>
·		: -		,			. •. •		,
7. Description of Work	Replaced rupture disc	on turbine exhaust.						. <u> </u>	
			<u>-</u>					·	
8. Tests Conducted:	Hydrostatic F	Pneumatic	Nominal	Operating F	ressure	☒ .	Exempt		
			• •		1 1 1				
	Other 🔲 Pres	sure IVA ps	81 1€	st Temp.	N/A	°F			•

NOTE: Supplemental Sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

^{*}as amended by additional quality assurance requirements found in Contracts 70C53-92291-7 & 01NJN-270016 and Design Criteria BFN-50-7071 & BFN-50-C-7105.

FORM NIS-2 (Back)

ID: 04-712068-000 Remarks This activity is	a normal, periodic replacement and inspection	n of the rupture disc required by	ASME/ANSI OM-10 and controlled b
	Applicable Manufacturers Dance Program. No degradation was identified	ita Reports to be attached	
subject activity.			
to the second se			
		* *	-
·			
• • • • • • • • • • • • • • • • • • • •			·
	CERTIFICATE OF C	OMPLIANCE	
I certify that the statements of	nade in the report are correct and this conform	ns to the rules of the ASME Code	e. Section XI.
		;	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Type Code Symbol Stamp	N/A		
Signed Signed	Owner or Owner's Designee, Title	Expiration Date N/A Date	6-3 ,20 05
			,
		ن در در دهو کو	
in this Owner's Report during to the best of my knowledge Report in accordance with the By signing this certific examinations and corrective	CERTIFICATE OF INSER Iding a valid commission issued by the Nation Tennessee and employed by Connecticut g the period 3/29/25 and belief, the Owner has performed examina the requirements of the ASME Code, Section X ate neither the Inspector nor his employer mai measures described in this Owner's Report. Injury or property damage or a loss of any kin	al Board of Boiler and Pressure V HSB have inspecto to 6/6/05 tions and taken corrective measure. tees any warranty, expressed or information for the Inspector of the Inspector	of exted the components described , and state that ures described in this Owner's explicitly concerning the prince has employer shall be liable in
Date	Commissions Signature 20 05		s. Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

1.	Owner Tennessee	Valley Authority (TVA)			Date	June 3, 2005			
	1101 Marke	Name of Street		-					
	Chattanood	ja, TN 37402-2801			Sheet	1 of	1		
•		Address		_			•		
2.	Plant Browns Fel	rry Nuclear Plant (BFN)	_,	Unit	2		· · ·	
	P. O. Box 2	Name 2000, Decatur, AL 356	509-2000	-	Work (Order (WO) 04-7			
		Address		•	-			n P.O. No., Job No., e	tc.
3.	Work Performed by _	TVA-BFN Name		-	Туре С	ode Symbol Stan	ip <u>N/</u>	<u> </u>	
	P. O. Box 2	2000, Decatur, AL 356	509-2000	- .	` Authori	zation No. NA		·.	
					Expirati	on Date NA			·
4.	Identification of Syster	n System 073, High	Pressure Coolant In	njection (HP	CI) System	(ASME Code C	lass 2 equ	ivalent)	
			·			<u>·</u>	<u>·</u>		
5. (a) Applicable Constru	uction Code USAS B	31.1.0 19	67 * Edi	tion,	N/A A	ddenda,	N/A C	ode Case
						4000 Addd-	•	• ,	•
(b) Applicable Edition	of Section XI Utilized for	r Hepairs or Hepiace	ments 19	95 Edition,	1996 Addenda	•		
			•		•		, .	•	
6.	Identification of Compo	onents		. , .	•		•		
									40145
									ASME Code
	Name of	Name of	Manufacturer	National Board		Other	Year	Corrected, Removed, or	Stamped (Yes
	Component	Manufacturer	Serial No.	No.	lde	ntification	Built	Installed	or No)
НЬ	CI Turbine Exhaust	Fike Metal Products	Lot#	N/A	2-85	D-073-0729	1997	Replaced	Yes
	er Rupture Disc	16-CPV-C-BT	9723640				,,,,	Tiopiacoa	
	CI Turbine Exhaust er Rupture Disc	Fike Metal Products 16-CPV-C-BT	Lot # 9723640	N/A	2-RP	D-073-0729	1997	Replacement	Yes

_					- ' - '				·
			·		·		ļ		
				:					
									
7.	Description of Work	Replaced rupture disc	on turbine exhaust.			<u> </u>			
	. ,							<u> </u>	
8.	Tests Conducted:	Hydrostatic 🔲 F	Pneumatic 🔲	Nominal (Operating F	ressure 🛛	Exempt		
	· · · · · · · -	Other Pres	sure N/A ps		st Temp.	N/A °F	-		
	,	Anioi [] ties	00.0 <u>147</u> ps	, 10	or romp.	144			
			•						

NOTE: Supplemental Sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

^{*}as amended by additional quality assurance requirements found in Contracts 70C53-92291-7, 221688 and Design Criteria BFN-50-7073 and BFN-50-C-7105.

FORM NIS-2 (Back)

9.	the BFN Preventive Maintenance Program. No degradation was identified during inspection of the rupture disc removed during this
•	
•	Subject activity.
•	
•	
•	
	CERTIFICATE OF COMPLIANCE
	I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp N/A
	Certificate of Authorization No. NA Expiration Date N/A Signed Styphic System Engineer Date
•	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB CT of
_	Connecticut have inspected the components described
	in this Owner's Report during the period 3/24/05 to 6/7/05 , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
_	Date 6/7 20 05 Commissions TN 4011 National Board, State, Province, and Endorsements

FORM NR-1 DATA REPORT OF RUPTURE DISKS As Required by the Provisions of the ASME Code Rules, Section 111, Div. 1

		
1. Manufactured by FIKE CORPOR	ATION BLUE SPRINGS, MO U.S	·A.
	(Name and address)	•
•	IDENTIFICATION OF RUPTURE DISK	:
2. Type or Style NoCPV-C-BT_	Serial No. 9723640	Lot No. 9723640
3. Disk Dimensional Characteristics:	· · · · · · · · · · · · · · · · · · ·	
Inlet Size 16 Inch	Outlet Size 16 inch	_Relief Ares201.06_132
4. Material Specification 316 SST	ASTM A240	
5. Drawing NoA3975-1		
	AUTHORIZATION TEST RESULTS	
6. Burst Pressure185	psi)	165Min.
•	psi)	(osi)
7. Coincident Disk Temperature	378 (F)	·
6. Fluid Used in Tests	••	
9. Cyclic Test Results (if required)	27.64	
<u>.</u>	CERTIFICATION	
). Place of Test	BLUE SPRINGS, MO U.S.A.	Date of Test 12/29/97
We certify the above data to be correct as	nd that the requirements of the ASME Code rule	es have been met.
FIKE CORPORATION	by Kristen C. Roy	- Date 12-29 19 97.
BURST TEST RESULTS:		

- 1. 171.3 psig @ 378°F 2. 170.7 psig @ 378°F

The above burst tests were witnessed, at Fike Blue Springs, MO by A.Majmudar of TVA

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

1.	Owner	Tennessee \	Valley Authority (TVA)			Date Jur	ne 6, 2005			
		1101 Marke			mana e jene de					
		Chattanoog	a, TN 37402-2801		- 4 4: -	Sheet 1	of	1	·	
2.	Plant	Browns Fer	Address Ty Nuclear Plant (BFN)) .		Unit 2	· · ·		.:.	
		P. O. Box 2	Name 000, Decatur, AL 356	09-2000		Work Order	s (WO) 04-7	712613-00	1 and 04-71261	3-002
3.	Work Per	formed by	TVA-REN			Type Code S		•	1 P.O. No. Job No e	etc.
٥.	·	`-	Name 1000, Decatur, AL 356	200.2000		- Authorization	•	· —	<u> </u>	
		F. O. Bux 2	Address			Expiration D		<u>`</u>	· · · · · · · · · · · · · · · · · · ·	
						Expiration D	ale IVA		· ·	
4.	Identificat	tion of Systen	n System 001, Main	Steam System (A	SME Code C	class 2 equivaler	nt)		 	
5. (a) Applio	cable Constr.	(valves) / uction Code (piping sy	ASME III, Class 2 19 ys) USAS B31.1.0		no N-stamp) 67 * Edition,	. N/A	Addenda	a, N/A C	Code Case
,	b) Applic	seble Edition	of Section XI Utilized for	Renaire or Renlace	mente 19	95 Edition 1996	Addenda	•		
•	D) Applic	· ····		Tropano or Tropiaso		00 Editor, 1000	- Maderida	!		
6,	Identificat	tion of Compo	onents				·	'		,
:		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			- -				ASME Code
	Name Compo		Name of — Manufacturer	Manufacturer Serial No.	National Board No.	Othe Identific		Year Built	Corrected, Removed, or Installed	Stamped (Yes or No)
Off	gas Prehe	ater CKV	FLOWSERVE	E966A-1-1	N/A	2-CKV-00	1-0742	2000	Removed	No
Off	-gas Prehe	ater CKV	FLOWSERVE	31BBM or 32BBM**	N/A -	2-CKV-00	1-0742	2005	Installed	No
Off	-gas Prehe	ater CKV	FLOWSERVE	E966A-1-2	N/A ;	2-CKV-00	1-0744	2000	Removed	No _
Off	gas Prehe	ater CKV	FLOWSERVE	31BBM or 32BBM**	N/A	2-CKV-00	1-0744	2005	Installed	No · ···
			1	913 📢	λ .					Æ,
7.	Descripti	on of Work	Replaced valves with r	new valves, same m	odel and ma	nufacturer.	13	<u> </u>	(10)	1 7 1
8.	·Tests Co	onducted:	-lydrostatic F	neumatic	Nominal (Operating Press	ure 🛛	Exempt		
•		C	Other Press	sure <u>N/A</u> ps	i Te	st Temp. NA	*F	٠,	•	
٠			Sheets in form of lists, and it is included on each sh							

^{*}as amended by additional quality assurance requirements found in Contract 1474286, PO 20077/Release 00321 and Design Criteria BFN-50-7001 and BFN-50-C-7105.

^{**} The serial numbers versus location were not recorded at the time of installation and the valves are located in a high radiation area which is inaccessible at the time this report is being prepared. The two valves installed were verified to be from Purchase Order 20077/Release 00321. Only these two valves were purchased under this contract. The serial numbers associated with this contract were verified by BFN during the reciept inspection.

FORM NIS-2 (Back)

WIL	04-712613-001 and 04-712613-002
9.	Remarks Replaced valves with new valves, same model and manufacturer. Applicable Manufacturers Data Reports to be attached
_	
_	
_	
_	
•	
	CERTIFICATE OF COMPLIANCE
	I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp N/A
	Certificate of Authorization No. N/A Expiration Date N/A
	Continuate of Addition Date 147
•	Signed Stash-C, William System Engineer Date 4 / ,20 05
-	
:	the state of the s
	CERTIFICATE OF INSERVICE INSPECTION
í	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Tennessee and employed by HSB CT
· 	Connecticut have inspected the components described
	in this Owner's Report during the period
	Report in accordance with the requirements of the ASME Code, Section XI.
•	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in
	any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	() otion
	Commissions TN 4011 Inspector's Signature National Board, State, Province, and Endorsements
	Date 6/8 20 <u>0 5</u>

: . . .

FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

1. Owner Tennessee	Valley Authority (TVA)			Date June 7, 200	5		,
1101 Mark	et Street		· · • -	* * * * * * * * * * * * * * * * * * *		• •	
Chattanoog	a, TN 37402-2801		.	Sheet 1 c	1 2	-	
	Address				m wang		11. 20
2. Plant Browns Fe	rry Nuclear Plant (BFN))		Unit • 2 · · ·			1877
	Name	- · - · - · - · - · - · · - · · · · · ·		Work Orders (WO)	04-720770-00	00 through 04-72	20770-004
P. O. Box 2	2000, Decatur, AL 356 Address	509-2000	 ., .	and 05-713848-000 Repair/Replacer	ment Organization	P.O. No., Job No.,	etc.
3. Work Performed by	TVA-BFN	•• • • • • • • • • • • • • • • • • • • •		Type Code Symbol S	stamp · N/	A	
P. O. Box 2	Name 2000, Decatur, AL 356	609-2000	· · · · .	Authorization No.	N/A		
· 	Address			Expiration Date N	 VA		
	·						
4. Identification of System	n System 085, Cont	rol Rod Drive (CRI	D) System	(ASME Code Class 2 equ	ivalent)		
لهان والمهامة المحافظة	Accumul	ators - ASMF Sec	tion VIII Dis	1, 1974 Edition, Summer	1975 Addend		ter Color
5. (a) Applicable Constr	uction Code USAS B		67 ° E		Addenda,		ode Case
ALLEGICA PARTIES	at Continue VI I lettered for			05 F-184		 ,	
(b) Applicable Edition	of Section At Offized for	nepairs or nepiac	cenients 19	-95 Edition, 1996 Addend	<u>sa</u>	·	
The second of th	لويون والعطول العام الما عام الما عام الما عام الما عام الما الما			ender of the control of the states of the st			
6. Identification of Comp	onents	J. 1. 2. 166 1	اور واروخی در دارد. مقابل استاسان و		is <u>Stantario</u>		*_*_ <u>*</u> _
	• • • • • • • • • • • • • • • • • • • •	المشت والمراه المراه	*** *******			,	ASME
							Code
Name of	Name of	Manufacturer	National Board	Other	Year Built	Corrected, Removed, or	Stamped (Yes
Component	Manufacturer	Serial No.	:/·No.	Identification		Installed	or No)
·		The state of the s	 	Artista de Servicio de			. `
CRD Hydraulic Control Unit Accumulator	General Electric	A4652	_ NA	2-ACC-085-718/5819	1969	Removed	Yes
CRD Hydraulic Control Unit Accumulator	General Electric	C0358	N/A	2-ACC-085-718/5819	1979	Installed	· Yes
CRD Hydraulic Control	General Electric	A3157	N/A	2-ACC-085-718/1435	1968	Removed	Unknown
Unit Accumulator CRD Hydraulic Control	General Electric	H1671	N/A	2-ACC-085-718/1435	1978	Installed	Yes
Unit Accumulator		7.50	* * * * * * * * * * * * * * * * * * * *	and the second second			
CRD Hydraulic Control . Unit Accumulator	General Electric	A4450	N/A	2-ACC-085-718/2635	1969	Removed	Yes
CRD Hydraulic Control Unit Accumulator	General Electric	H1496	.NA	2-ACC-085-718/2635	1978	Installed	Yes
Unit Accumulator	l	Contir	nued on She	et 2			
				74.		· · · · · · · · · · · · · · · · · · ·	
7. Description of Work	Replaced 6 CRD Hydi	raulic Control Unit	accumulato	rs with new accumulators	<u> </u>		
8. Tests Conducted:		neumatic [Nomina	al Operating Pressure	Exempt	П	
					•		
	Other Press	sure <u>N/A</u> p	osi 7	Test Temp. N/A *	F		
NOTE: Supplemental	Sheets in form of lists	sketches or drawii	nas mav be	used <i>nrovided (1) size</i> is 8	11/2 in X 11 in	(2) information	in items 1

through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

^{*}as amended by additional quality assurance requirements found in Contract 73C60-75210, HAR-03-0410, 93185033, PEG pkg 050209-ABF490HG0 and Design Criteria BFN-50-7085 and BFN-50-C-7105.

FORM NIS-2 (Back)

			Applica	TO SE WITH STUDY OF THE SE	Data Reports to be	a attached				
- , , ,				<u>-</u>	·.	·				
<u> </u>	* ` *							· · · · · · · · · · · · · · · · · · ·		
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•	•	•	• •		-		•			
	٠	•					•			
			CE	RTIFICATE OF	COMPLIANC	E				
•				, ,		-	•			
certify that	he statements r	nade in the rep	ort are correc	t and this confor	rms to the rule:	s of the ASM	IE Code, Sec	tion XI.		
	•	• •	• •							
Coda 9		NI/A		•						
Гуре Code S	Symbol Stamp	N/A	* • • • • • • • • • • • • • • • • • • •	•		. · ·	· ,			
					Expira	ition Date			·	·
	Symbol Stamp Authorization N		(1)		Expira	ition Date	N/A			· ·
		lo. NA	~~	System Enginee		ition Date	N/A	(p-7		
Certificate of			~~	System Enginee		ition Date		(p-7		
Certificate of		lo. NA	~~	System Enginee		ition Date	N/A	(<i>p</i> -7	, 20	
Certificate of	Authorization N	Owner of Owner's	Designee. Title	CATE OF INSE	n Date	CTION		0-7	, 20	
Certificate of Signed	Authorization N	Owner or Owner's	Designes, Title CERTIFIE TIMES SIGN SESSION	CATE OF INSE	RVICE INSPE	ECTION oiler and Pre	i ssure Vessel	Inspectors as	, 20	
Certificate of	Authorization N	Owner or Owner a	Designes, Title I CERTIFIE mmission issue	CATE OF INSE	RVICE INSPE	ECTION oiler and Pre	; ssure Vessel	*	. •	of
Signed Signed I, the u	Authorization N	Owner or Owner a liding a valid con Tennessee	CERTIFIE mmission issu- and	CATE OF INSE ued by the Nation d employed by	RVICE INSPE	ECTION oiler and Pre	; ssure Vessel	he componer	. •	ed o
I, the Lor Province on this Owner to the best of	Authorization N	owner of Own	CERTIFIC mmission issu- nnecticut Owner has pe	CATE OF INSE ued by the Nation d employed by 3 / 4/0 5 enformed examin	ERVICE INSPE	en corrective	ssure Vessel HSB CT ye inspected	he componer	nts describ	ed at
I, the cor Province on this Owner of the best of Report in acceptance.	Authorization No.	ding a valid control of the period and belief, the erequirements	CERTIFIC mission issu- nnecticut Owner has per	CATE OF INSE ued by the Nation d employed by 3 / 4/ 2 5 enformed examin Code, Section	RVICE INSPE	corrective	ssure Vessel HSB CT ve inspected	he componer , ar escribed in th	nts describ nd state th is Owner's	ed at
I, the user Province on the best of Report in acc	Authorization Nondersigned, hold in the cordance with the cordance	ding a valid content of the period of the period of and belief, the erequirements are neither the	CERTIFIC mmission issu- nnecticut Owner has per of the ASME	CATE OF INSE ued by the Nation d employed by 3 / 4/2 5 enformed examin Code, Section his employer ma	RVICE INSPE nal Board of B to nations and tak XI:	har by the corrective anty, express	ssure Vessel HSB CT ve inspected measures d ed or implied	he componer, arescribed in the	nts describ nd state th is Owner's	ed at
I, the user Province of the best of Report in accuracy accuracy in accuracy accuracy and accuracy accuracy and accuracy	Authorization North Author	dding a valid control of the periodand belief, the erequirements ate neither the measures described.	Designee. Title I CERTIFIE I CERTIFIE I And I And I CERTIFIE I AND I AND	CATE OF INSE used by the Nation d employed by 3 /4/0 5 enformed examin Code, Section his employer ma owner's Report.	RVICE INSPERING	har by kernestries of the corrective anty, express neither the l	ssure Vessel HSB CT ve inspected measures d a measures d ed or implied inspector nor	he componer, are scribed in the concerning this employer	nts describ nd state th is Owner's	ed at
I, the user Province of the best of Report in accuracy accuracy in accuracy accuracy and accuracy accuracy and accuracy	Authorization North Author	dding a valid control of the periodand belief, the erequirements ate neither the measures described.	Designee. Title I CERTIFIE I CERTIFIE I And I And I CERTIFIE I AND I AND	CATE OF INSE ued by the Nation d employed by 3 / 4/2 5 enformed examin Code, Section his employer ma	RVICE INSPERING	har by kernestries of the corrective anty, express neither the l	ssure Vessel HSB CT ve inspected measures d a measures d ed or implied inspector nor	he componer, are scribed in the concerning this employer	nts describ nd state th is Owner's	ed at
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I, the user Province of the best of Report in accuracy accuracy in accuracy accuracy and accuracy accuracy and accuracy	Authorization North Author	dding a valid control of the periodand belief, the erequirements ate neither the measures described.	Designee. Title I CERTIFIE I CERTIFIE I And I A	CATE OF INSE used by the Nation d employed by 3 /4/0 5 enformed examin Code, Section his employer ma owner's Report.	RVICE INSPERING	har by kernestries of the corrective anty, express neither the l	ssure Vessel HSB CT ve inspected measures d a measures d ed or implied inspector nor	he componer, are scribed in the concerning this employer	nts describ nd state th is Owner's	ed at

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY SUPPLEMENTAL SHEET

"说一个你的女性做

1. Owner <u>Tennessee</u>	Valley Authority (TVA)		_	DateJune 7_200)5		
1101 Marke		<u>47/3</u>		T(y,z)			
Chattanooo	a. TN 37402-2801	· ·		Sheet 2	of _2	<u> </u>	
2. Plant Browns Fer	Address rv Nuclear Plant (BFN)	<u>, i z, de ees - i</u>	• • • • • •	Unit _2	- 1		
G O S0	Name	200 2000		Work Orders (WO) and 05-713848-000		00 through 04-72	0770-004
	000, Decatur, AL 356 Address	009-2000	_			n P.O. No., Job No.,	etc. · · · ·
3. Work Performed by _	TVA-BFN Name	· · · · · · · · · · · · · · · · · · ·	_	Type Code Symbol S	StampN/	Α	
P. O. Box 2	000. Decatur. AL 356	09-2000		- Authorization No.	N/A		
	Address	44 - 45 - LL		Expiration Date1	VA		<u> </u>
4. Identification of System	System 085_Cont	rol Bod Drive (CRI	D) System	(ASMF Code Class 2 equ	ivalent)		
				1, 1974 Edition, Summer		a	
	iction Code <u>USAS B</u> of Section XI Utilized for	31.1.0 19	- <u>67*</u> E	dition, <u>N/A</u> 95, 1996 Addenda	_ Addenda.	NA C	ode Case
(b) Applicable Edition 6. Identification of Compo		nepails of neplac	Jerneriis 13	93, 1990 Addelida		- • •	
a. Identification of Contac	ATERIES					r	ASME
			1.	and the state of].		Code .
			National	9 A P		Corrected,	Stamped
Name of · · - · · ·	Name of	_ Manufacturer _	Board No.	Other Identification	Year Built	Removed, or Installed	(Yes
Component	Manufacturer	Serial No.	- N/A	2-ACC-085-718/1043	1969	Removed	or No)
CRD Hydraulic Control Unit Accumulator	General Electric	A4710	IVA	2-ACC-065-7 16/1043	1909	nemoved .	ies _
CRD Hydraulic Control	General Electric	H0784	N/A	2-ACC-085-718/1043	1977	Installed	Yes
Unit Accumulator							
CRD Hydraulic Control Unit Accumulator	General Electric	C0147	N/A_sill	2-ACC-085-718/3007	Unknown	Removed	Unknown
CRD Hydraulic Control	General Electric	H1370	N/A ""	2-ACC-085-718/3007	1978	Installed	-Yes
Unit Accumulator CRD Hydraulic Control	General Electric	A4547	· N/A	2-ACC-085-718/3031	1969	Removed	Yes
Unit Accumulator	General Electric	74547 ·		A	1503	Memoved .	1 1 2 .
CRD Hydraulic Control Unit Accumulator	General Electric	C0455	N/A	2-ACC-085-718/3031	1979	Installed	Yes
••		A THE STREET	is Escapera	1. 2. 5 . 5			
				The state of the s			
					 		
	·] "	to the Saturday			· ·.
7. Description of Work	Replaced 6 CRD Hyd	raulic Control Unit	accumulato	rs with new accumulators		·	:
8. Tests Conducted: 1	Audenatatia 🔲 .	Pneumatic	Nomina	Operating Pressure	Exempt		
o, resis conducted;	nyurostatic 🔲 🐪	neumanc 🔟	INOTTIINA	· Operating Flessure	Елетрі	ч	
C	Other Pres	sure N/A	osi 7	est Temp. N/A	PE .	•	

FORM NIS-2, SUPPLEMENTAL SHEET (Back)

temarks	See sheet 1
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FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by .General Electric Company, P.O. Box 780, Wilmington, N.C.	
2. Manufactured for Same as Above	
3. Location of Installation 4. Type Vertical C0358 105061365001 N/R Year Builty 1979)
Moriz or vert, tenk) (Migrie Serial No.) (CRN) (Drawing No.) (Nat'l Brd Ko.)	
6. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER	
AND PRESSURE VESSEL CODE. The design, construction, and workmenship conform to ASME Rules. Section VIII, Division 1-1974, and Addenda toS 175, and Code Case Nos	:
(Year) (Date)	
Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:	
Nom Corr	
8. Shell: Matl. SA-106 Gr. B. Thk 55 in. Allow in. Diam. 8.70 in Light 3 ti 2.38 in	·-··
7. Soams: Long. N/A Seamless RT N/A Efficiency The H.T. Temp The Frame Trime T	
Ginh No Welding Performed B.T. B.T. No of Courses T	
(Welded, Dbi, Sngl, Lep. Butt) 8. Heads: (a) Material Sa-182-F304 (b) Material Sa-182-F304	
(Spec. No., Grade)	•
Eocation Min Corr Crown Knuckle Ellipse Concat Hamilton Flat Side to Pressure (Top, Bottom, Ende) The Allow Redius Redius Ratio Apex Angle Redius Dem (Convex or Concave)	
(a) Top 2.5" 7.230 Flathead	
(b) Bottom 2.5" 7.230 Flathead We removable bolts used (describe other (estennes) 500-13 Bolts-ASME-SA193-B7 for Split Flange	es (4
(Malariai Spor, No. Gr. Siza No.)	
9. Constructed for max, allowable working pressure 2100 psi at max, temp. 700 F. Min. temp. (when	• •
less than -20 F) F. Hydrostatic; preumatic, or combination test, pressure 3200 pai.	
10. Safety Valve Outlets: Number NoneSize Location	
. Purpose Dism Nom Reinforcement How	•
Anieched Location	••
Gas Port 1 .75" Split Flng. 30455 1.060 None Bolts (4) Borte Water Port 1 .97" Split Flng. 30455 1.300 None Bolts (4) Top	om.
Water Port 1 . 97 Spilt Fing. 30455 1.300 Sone Bolts (4) Top	
الم المستقدة المنظم المستقد المستقد المنظم ا	
And the state of t	
12. Supports; Skirt NO Lugs Legs Other Attached (Where and how)	
13. Remarks: (Yosorno) (No) (Yosorno) (Where and how)	
Although A Differential Pressure Exists on each side of the Internal Piston.	
the Accumulator Cylinder is Evdrostatically tested with the Piston removed.	
The Hydro Test pressure is based on the higher design pressure	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and that all deterns of design material, construction, and	
workmonship of this vessel conform to the ASME Code for Pressure Vessels, Section VII.s or f.	
(Manufacturer) (Sepresentative)	
"U" Certificate of Authorization No. 10.572 expires June 10. 19.81.	
CERTIFICATE OF SHOP INSPECTION	
Vessel made by General Electric Co. at Wilmington, N. C.	
t the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors	
and or the State or Province of Na. Carolina and employed byDept_Utabor have inspected the	
pressure vessel described in this Manufacturers' Data Report on	
to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty.	
expressed or implied, concerning the pressure vessel described in the Manufacturers' Data Report. Furthermore, neither	
the Inspector por his employer shall od liable in any manner for any personal injury or property damage or a loss of any	
kind arising from Sonnective will this inspection 1/10/79 NC799 PA WC2160 Objo	/
Signed Signature Date 1/10/79 Commissions NC799, PA. WC2L60, Ohio	W

3/10

PEG PKG NO. 050209-ABF490HG0 PAGE 23 OF 36

FORM A MANUFACTURETIS' DATA LEPORT F PRESSURE VESSELS (Alternate Form for Single Chember, Completely Shap-rebricated Vessels Only) As Required by the Provisions of the ASIGE Code Rules, Section VIII, Division 1

1. Manufactured by General Electric Company, P.O. Box 780, Wilmington, N.C.	
2. Menufactured for Same 25 Above	
3. Location of Installation	
Gloriz, or van. tank) (-(Migr's Social No.) (CRN) (Drawing No.) (Not'l Brd No.)	
5. The chamizet and physical properties of all parts most the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and wedanishing conform to ASME Rules, Section VIII, Division t	
1974 and Addenda to S 75 and Could Care Nos	
(tear) (Conte) to Dear This Date Property Con Personal Police	
Special Service par UG-120(d) AS PET THIS PACE REPORT - See Reliables heroben funished for Manufacturers' Parial Data Reports properly identified and signed by Commissioned Inspectors have been funished for	
the following items of the report:N/A	
6. Shell: Meth. SA-106 Gr. D. Thk55 in. Allow. in. Dism. 8.70 in. Lgth. 3 ft 2.38 in.	
7. Scams: Long. N/A Schmless R.T. N/A Efficiency. TT % H.T. Terup. == F Time == hr	
Ginh Na Molding, Performed R.T. (Spot. Penint, or Full) (Vercest, 1961, Soci. 1962, Rent)	
8. Heads: (a) Motorial Sn-182-1304 (b) Material Sn-182-1304 (Spec. No., Gude)	
Location Min Corr. Crown Knockle Ellipse Conical Hemisph. Flat Side to Precture	
(Top. Scienne, Endr.) Tel. Allow: Redus Redus Reto Apar Angle Redus Dem (Concer a Concerc) (a) Top 2.51 7,230 Flathead	
(a) 100 2.3 Flathead (b) Bottom 2.5" 7.230 Flathead	
Wremovable, bolts used (describe other fastenings) 500-13 Rolts-ASME-SA193-N7 for Split Flance	،)۔۔۔نہ
[SATIONAL MICE, IG., DOB. 100.]	
9. Constructed for max, allowable working pressure 2100 psi at max, temp. 400 F. Min, temp (when less than -20 F) —— F. Hydrostatic, pneumatic, or combination test pressure 200 psi.	
10. Sufan Valve Outicts: Numbur . Nansize Location	
11. Nezziva and Inspection Openings:	
Purpose Diam Nom. Reinforcement Now. Medi. Nached Location	
Cas Fort 1 .75' Split Fing. 30455 1.060 None Noits (4) Butto	~
Vater Fort 1 .97" Split Flng. 30455 1.300 None Rolts (4) Top	
2. Supports: Skirt, No. Lugs Leps Other Attached	
2. Supports: Skin. No Lugs Leps Other Attached (White and how) 13. Remarks: Complete Rechanical Assembly with No Welded Joints.	
Although A Differential Pressure Exists on each side of the Internal Piston,	
the Accumulator Cylinder is Hydrostatically tested with the Piston removed. The Hydro Test pressure is based on the higher design pressure.	
The hydre trace is based on the higher session provides.	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and that all details of design, majorial, construction, and	
working nahip of this vessel conform to the ASME Code for Proceure Vessels, Syction Mill. Divisign 1.	
Date 7/10/78 Signed General Electric Co. by Asia Marklurus	
"U" Contificate of Authorization No. 10,572 expires June 10. 19.81.	
CERTIFICATE OF SHOP INSPECTION	
Vessel made by General Electric Co. Rilmington, N. C. Wilmington, N. C.	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Prossure Vessel Inspectors and/or the State or Province of N. Carol Lina and employed by _Pept_Of_Labor have inspected the	
pressure vessel described in this Manufacturors' Data Report on	
to the tiest of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with	
ASME Cude, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty.	
expressed or implied, concerning the pressure vessel described in the Manufacturers' Data Report. Furthermore, noither the Inspector nor his employer shall be Jami'an any manner for any personal injury or property damage or a less of any	
The state of the s	
Signed Dote 7/10/73 Commissions NC799, PA. WC21.60, Ohio	

Tims form (EC)1171 may be obtained from the Order Dapt, ASME, 345 F. 47th St., New York, NY, 16017

08-3/2¹²⁵

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FORM U-1A MANUFACTURERS' DATA REPORT FC RESSURE VESSELS (Alternata Form for Single Chamber, Completely Shop-Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Munufactured by .	_General	Elect	ric Con	pany,	2.0.	Box 78	O, Wilm	ington	, N.C.		
2. Manufactured for		Same	as Abov	e							
3. Location of Installa		<u>\</u>						· · · · · ·		1070	
4. TypeVertica	11145 180k) (Migr			CUM)		D6138C0 Drewing No		/ K I Brd No.)	(Year	Built) 1970	
5. The chemical and									s of the A	SME BOILER	1
AND PRESSURE V											
1974_ and Addor		75	_ and Cod	e Case N	Os				<u> </u>		· · .
(Year) Special Service pe	·	(Date)	As Per	This	Data	Report	- See 1	Remark	s Belov	i.	
Manufacturers' Pa											•
the following item			N/A			·					
6. Shell:MatlSA-	No., Gradel		. 55 in.	Corr. Altow		in. Diam	8.70	in. Lgth.	_3ft _	2.38 in	,
	/A_Seaml	ess_R1	r. <u>N/A</u>	Ef	ficiency		% H.T. Tomp		F Time	h	
Ginh <u>No Weldi</u>	เอง, ยอเ, Sngi, เ .ก.ศ. Perfo	rned	(Sput or	Full)		. R.T		Ne	v.c.(Cours	ac	
	(V/clded.	Dui, Sngl. L	Lep. Eutt)			180	ot, Partiel, or	Ful!)	n. 0. 000.1		•
8. Heeds: (a) Mater	ialSa	-102-1. (Spec. I	No., Grade)		(b)	Material	Sa_	02-10	104 No., Great)		i
Location	Min.	Carr.	Crown	Knutile	Effice	Conical	Hemisph.	Flat		Pressure	
(Top, Bottom, End)	I The	Allow.	Radius	Redius		Apex Angle	Redius	Diem.		or Concevel	
(a) Top	2.5"							-7:23	A-	rincad	
(b) Bottom	2.5"								<u> </u>	rnezd_	
if removable, bolts	used (descri	be other fo	astenings)	50	0-13	Bolts-A	SME-SAL	3-B7	for Sp.	<u>lit Flan</u>	ges (
9. Constructed for mi	oldsvolla va	working n	TOCSULE.	210	0 ,	materia i at max. ti	1, Spec. No., (emp. /			emo. (when	
less than -20 F) _									psi.		
10. Safety Valve Outlet							<u> </u>				
11. Nozzles and Inspec		s:									
Purpose Aniet, Outlet, Disin) No	Diem. Diem Size	Туре		Matt.		Nom. Tht	Reinforcerr Mett,	ent	How Attached	Location	
Gas Port 1	.75"		it Fing		455	1.060	None		Bolts	(4)_Bot	tom
Water Port	1 . 97"		it Flng		455	1.300	None		Bolts	(4) Top	CO.III •
		,				 -					
12 Supports Stire N	2		0:1				Awaha				
12. Supports: Skirt N	O Lugs (Legs	Oth	er	1062	cribe)	Attacho	d	(Where sh	d how)	
12. Supports: Skirt N		Legs No)	Oth	ersembly	y witi	cribe) n No We	Anscho lded Joi	d	(Where sh	d how)	
13. Remerks:C	orno; (fomplete	liechan:	ical As	sembl			lded Joi	TILS.		<u> </u>	
13. Remerks:C Although A D the Accumula	orno; (fomplete) ifferent tor Cylin	lechan: ial Pro nder is	ical As essure s Hydro	Exist:	s on c	each si tested	lded Joi de of th	nts.	ernal F	iston,	
13. Remerks:C	orno; (fomplete) ifferent tor Cylin	lechan: ial Pro nder is	ical As essure s Hydro	Exist:	s on c	each si tested	lded Joi de of th	nts.	ernal F	iston,	
13. Remerks:C Although A D the Accumula	orno; (fomplete) ifferent tor Cylin	lechan: ial Pro nder is	ical As essure s Hydro	Exist:	s on c	each si tested	lded Joi de of th	nts.	ernal F	iston,	
13. Remerks:C Although A D the Accumula	orno; (fomplete) ifferent tor Cylin	ial Pronder is	ical As essure s Hydro	Exist station the	s on cally e high	each si tested ner des	lded Joi de of th	nts.	ernal F	iston,	
13. Remerks:C Although A D the Accumula The Hydro Te	or not complete in ifferent tor Cylin st press	ial Pronder is	ical Asessure S Hydro based EERTIFICA	Exists station the	s on cally high	tested her des	lded Joi de of th with th ign pres	nts. ne_Int ne_Pis	ernal F Lon ren	iston, coyed.	
13. Remerks:C Although A D the Accumula The Hydro Te We certify that the st	or no; (fomplete) ifferent tor Cyli st press	ial Pronder is ure is	ical As essure s Hydro based ERTIFICA	Exists statio on the	s on (ally high	tested her des LIANCE	de of the with the ign pres	nts. ne_Int ne_Pis ssure.	ernal F Lon ren	iston, coyed.	
13. Remerks:C Although A D the Accumula The Hydro Te	or no; (fomplete) ifferent tor Cyli st press	ial Pronder is ure is Code in this m to the A	essure s Hydro based ERTIFICA report at ASME Code	Exist: static on the TE OF e correct e for Pres Elect	comples and the saure Ve	each si tested her des LIANCE at all detai	de of the with the ign pres	nts. ne_Int ne_Pis is ure. i. ma; frii is or 1.	ernal F fon ren el, constru	iston, coyed.	
13. Remerks:C Although A D the Accumula The Hydro Te We certify that the st workmanship of this v Date	or no; (for no) omplete ifferent tor Cylin st press atements ma vessel conform Signed	ial Pronder is ure is Conde in this m to the A	essure s Hydro based ERTIFICA SME Code eneral	Exist: static on the	COMPI	LIANCE at all details	lded Joi de of th with th ign pres	mts. ne_Int ne_Pis sure. i.ma;frii ision/1. U-culu (Represe	ernal F ton ren	oyed.	
13. Remerks:C Although A D the Accumula The Hydro Te We certify that the st workmanship,of,this	or no; (for no) omplete ifferent tor Cylin st press atements ma vessel conform Signed	ial Pronder is ure is Conde in this m to the A	essure s Hydro based ERTIFICA report at ASME Code	Exist: static on the TE OF e correct e for Pres Elect	COMPI	each si tested her des LIANCE at all detai	lded Joi de of th with th ign pres	nts. ne_Int ne_Pis is ure. i. ma; frii is or 1.	ernal F ton ren	iston, coyed.	
13. Remerks:C Although A D the Accumula The Hydro Te We certify that the st workmanship of this v Date	or no; (for no) omplete ifferent tor Cylin st press atements ma vessel conform Signed	ial Pronder is ure is Code in this m to the AG	essure s Hydro based ERTIFICA s report ar ASME Code eneral [Manuf.] 10,572	Exists Static on the OF OF e correct e for Pres Elect cturer)	complete of the source version contract version versi	LIANCE at all details	de of the with the ign pres	mts. ne_Int ne_Pis sure. i.ma;frii ision/1. U-culu (Represe	ernal F ton ren	oyed.	
13. Remerks:C Although A D the Accumula The Hydro Te We certify that the st workmanchip of this v Date	or no; omplete ifferent tor Cyli st press atements ma vessel conform Signed _ otherization N	ial Pronder is ure is Cade in this m to the AGNO.	essure s Hydro based ERTIFICA s report ar ASME Codeneral (Manuf.) 10,572	Exists static on the ore OF e correct e for Pres Election	COMPI and the ssure Veric Compiler Comp	EACH SI TESTED TESTE	de of the with the ign pres	nts. ne_Int ne_Pis is year is	ernal F fon ren al, constru	ction, and	
13. Remerks:C Although A D the Accumula The Hydro Te We certify that the st workmanship of this v Date	or no; omplete ifferent tor Cyli st press atements ma vessel conform Signed _ othorization h Ceneral	ial Pronder is ure is Conde in this m to the A Grand CER 1 Elector decomposition of the composition of the c	essure s Hydro based ERTIFICA s report ar ASME Code eneral IManuf. 10,572 TIFICATE tric Co	Exists Static on the OF OF Correct Cor	COMPI and this ssure Veric_Cs OP INS Nation	LIANCE at all detainssels, Security by Comparison of the compariso	de of the with the ign pres	ints. ne_Int. ne_Pis. Sure. ison1. U-dic. iRepresent 10.	ernal F fon ren el. constru mente	ction, and	
13. Remerks:C Although A D the Accumula The Hydro Te We certify that the st workmanship of this v Date	or no; omplete ifferent tor Cyli st press atements ma vessel conform Signed _ othorization h Ceneral	ial Pronder is ure is Conde in this m to the A Grand CER 1 Elector decomposition of the composition of the c	essure s Hydro based ERTIFICA s report ar ASME Code eneral IManuf. 10,572 TIFICATE tric Co	Exists Static on the OF OF Correct Cor	COMPI and this ssure Veric_Cs OP INS Nation	LIANCE at all detainssels, Security by Comparison of the compariso	de of the with the ign pres	ints. ne_Int. ne_Pis. Sure. ison1. U-dic. iRepresent 10.	ernal F fon ren el, constru mullaritative	ction, and	
13. Remerks:C Although A D the Accumula The Hydro Te We certify that the st workmanship of this v Date	or no; (form no)	ial Pronder is ure is Conde in this m to the A Grand CER 1 Elector d commiss N. Car Manufact	essure s Hydro based ERTIFICA s report ar ASME Codeneral (Manuf.) 10,572 TIFICATE tric Cosion issue rolina.	Exists Static on the OF OF e correct e for Pres Election OF SH d by the and d a Report	COMPI and the source Verica Compiler Co	LIANCE at all detainssels, Section. Expires — SPECTION at Board of the property of the prope	de of the with the ign pression value of the ign pression value of the ign pression value of the ign pression of the ign press	ints. ne_Int. ne_Pis. Sure. ison1. U-dicu ison1. inc 10. ingto	ernal F fon ren el, constru ((c) / (re Vessel I have insp	ction, and	
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PEG PKG NO. 050209-ABF490HG0 **PAGE 12 OF 36**

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by General Electric Company, P.O. Box 730, Wilmington, N.C.	
2. Manufactured for Same as Above 3. Location of Installation	
4 Type Vertical H0784/ 105D6138G001 N/R Year Built 1977	
(Horiz, or vert, tank) (I/(gr's Serial No.) (CRN) (Drawing No.) (Nat'l Bid No.) 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER	
AND PRESSURE VESSEL CODE. The dosign, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1974, and Addunda to and Code Case Nos	
Special Service per UG-120(d) As Per This Data Report - See Remarks Below	
Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:N/A	
6. Shell: Matl. CA-106 Gr. B Thk55 in Allow. in Diam. 8.70 in Light. 3 ft 2.38 in.	
7. Seams: Long. N/A Seanless R.T. N/A Efficiency % H.T. Temp F Time hr	
Girth No Welding Perrormed R.T. Spot, Partial, or Full; See 182-F304	
B. Heads: (a) Material Sa-182-F304 (b) Material Sa-182-F304 (Spec. No., Grade)	
Eccation Min. Corr. Crown Anuckle Ellipsa Conical Hemisph. Flat Side to Pressure [Top. Buttom, Er.ds.] The Allow Radius Radius Ratio Apex Angle Radius Diam. [Corwex or Cuncave]	
(a) Top 2.5" 7.230 Flathcad (b) Bottom 2.5" 7.230 Flathcad	
(0)	(1.5
(Material, Spec. No., Gr., Size, No.)	(4;)
9. Constructed for max. allowable working pressure 2100 psi at max. temp. 400 F. Min. temp. (when loss than -20 F) ———————————————————————————————————	
loss than -20 F) F. Hydrostatic, preumatic, or combination test pressure 200 psi. 10. Safety Valve Outlets: Number Location	
11. Nozzles end Inspection Openings:	
Purpose Dism. Nom. Painforcement How Brilet, Outlet, Drain) No. or Size Type Matl. Thk Matl. Attached Location	
Gas Port 1 .75" Split Flng. 30455 1.060 None Bolts (4) Buttom.	
Water Port 1 .97" Split Flng. 30455 1.300 None Bolts (4) Top	
12. Supports: Skirt No_Lugs Logs Other Attached (Where and how)	
(Yes or no) (No.) (No.) (No.) (No.) (Percribe) 13. Romarks: Complete Mechanical Assembly with No Welded Joints. (Where and how)	
Although A Differential Pressure Exists on each side of the Internal Piston	
Although A Differential Pressure Exists on each side of the Internal Piston, the Accumulator Cylinder is Hydrostatically tested with the Piston removed.	
The Hydro Test pressure is based on the higher design pressure	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and that all details of design, myterial, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section YIII, Division 1.	
To kind is in this vestor comorni to the course color in the same	
Date 11-15-77 SignedGeneral Electric Co. by January	
(N'anufacturer) (Representative)	
(Atanufacturer) (Representative)	
(N'anufacturer) (Representative)	
"U" Certificate of Authorization No10.572	
"U" Certificate of Authorization No10.572 expiresJune_10	
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PEG PKG NO. 050209-ABF490HG0 **PAGE 17 OF 36**

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS (Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by General Flecttis Company, P.O. Box 780, Wilnington, N.C. 2. Manufactured for Serg. As Above 2. Location of Installation (1) 300 3. Location of Installation (1) 300 4. Type Medical Company (1) (200) 5. The chemical and physical proposities of all parts meet the requirements of material specifications of the ASME GULER AND PRESULOUS (1) per design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1974, and Addends to S. 75 5. The chemical and shylicide (1) per design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1974, and Addends to S. 75 5. The Company of the Part of the Pa												
2. Manufactured for Serve October 1973 Continued for Installation Mily Continued for No. Continued for Installation Mily Continued for	1. Manufactured by	_Genera	11 Elect	ric Con	pany,	P.O.	Box 78	80, Wil:	ningto	N.C.		
4. Type Vertical Wilson Service Servic			Sanc	as Abov	€							
Final cryst Land (Marging Special No) (CNN) (Description No)			·									
5. The chemical and physical proposities of all parts meet the requirements of matchet specifications of the ASME SCILET NATIONAL PRESENTED ST. The design, construction, and workmanship conform to ASME MELS, Section 11, 1974, and Addends to	4. Typo _Vertic	a <u>l </u>	U.3/0/		CDAD					(Year	Euil:) _] 97.8	3
AND PRESSURE VESSEL CODE. The design, construction, and workmaship conform to ASME Rules, Section VIII, Division 1 1974, and Addends to 5.75 and Code Case Nots. — 1974 1974 1975 1975 1975 1975 1975 1975 1975 1975					-	roquire				•	SME BOILER	
1974, and Addends toST_5and Code Case Nos												
Special Service per UG-120(d) As Per This Data Report - See Remarks Below			5'75	_ and Code	Case N	los						
Manuscurers' Partial Data Reports properly Identified and signed by Commissioned Inspectors have been furnished for the following items of the report: NA	(Year)						Panari	- 500	Pamari	ce Relo	7.7	
the following items of the report: MA												
6. Shell: MettSA=106_Cr_BThk55. in. Allow in. Diam					ied and	signed	by Commi	essioned Ins	pectors t	neve been	furnished for	
8. Heads: (a) Material Sa-182-F304 (b) Material Sa-182-F304 (contect in the state of put) Sa-182-F304 (content in	(Sou	. No., Gradel	<u>B</u> ·Thk		Corr. Allow	·	_in. Diam	8.70	_in. Lgth.	_3_ft_	2.38 in.	
8. Heads: (a) Material Sa-182-F304 (b) Material Sa-182-F304 (contect in the state of put) Sa-182-F304 (content in	7. Saams: Long.	N/A Sear Ided, DEI, Sng	less_R.	T. N/A	Full) El	Hictory	/ 	% H.T. Tem	-			
E. Heads: (a) Material Sa-182-F304 (Spec. No. Grado) Sa-182-F304 (Spec. No. Grado) Spec. No. Grado) Spec. No. Grado)	Ginh No Weld		<u> </u>				_ R.T			o, of Cours	es	
Constituted for max. allowable working pressure 2100 psi st max. temp. Ann.	8. Heads: (a) Mate					11				304		
Top 2.5" Top	0. 1.0000, (c,					,,	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(Spac.	No , Grado)		
(a) Top 2.5" (b) Bottom 2.5" (c) Bottom 2.5" (d) Finished It removable, boits used (describe other festenings) (e) Solution 2.5" (for the provided of th												
Supports: Skir No. Lugs Complete Mechanical Assembly with No Welded Joints.	01								7 2			
If removable, bolts used (describe other festenings)	Dana a									10		
See Constructed for max, allowable working pressure 2100 psi at max temp. 400 F. Min. tomp. (when less than -20 F) — F. Hydrostatic, preumatic, or combination test pressure 3200 psi. 0. Selay Valve Outlets: Number Nonefise — Location. ————————————————————————————————————	,-,-						P-14A	CME-CAI	02-07			(4)
9. Constructed for max. allowable working pressure 2100 psi at max. temp. 400 F. Min. tamp. (when less than -20F) — F. Hydrostatic, preumatic, or combination test pressure 2200 psi. 9. Safety Valve Outlets: Number Nontifize — Location — Loca	it removable, bolt	s usod (desc	cribe other t	lestenings)	50	0=13	Materia	I Spor No	Gr Sire	Nol	IIC Fian	ges (4,
less than -20 F) F. Hydrostatic, preumatic, or combination test pressure \$200	9. Constructed for m	ax. allowabl	le working i	nressure	210	0					tamp, (when	
O. Selety Valve Outlets: Number NonGize —— Location. I. Nozzlss and Inspection Openings: **Port 1 . 75" Split Flng. 30455 1.060 Nane Rains (4) Rottom. **Gas Port 1 . 75" Split Flng. 30455 1.060 Nane Rolts (4) Rottom. **Water Port 1 . 97" Split Flng. 30455 1.300 None Rolts (4) Ton **Water Port 1 . 97" Split Flng. 30455 1.300 None Rolts (4) Ton **Supports: Skin No. Lups (No.) Complete Mechanical Assembly with No Welded Joints. **Supports: Skin No. Lups (No.) Complete Mechanical Assembly with No Welded Joints. **Although A Differential Pressure Exists on each side of the Internal Piston, the Accumulator Cylinder is Hydrostatically tested with the Piston removed. The Hydro Test pressure is based on the higher design pressure. **CERTIFICATE OF COMPLIANCE** **We certify that the statements made in this report are correct and that all details of the pressure of the ASME Code for Pressure Vessels, Seption Nill Division 1. **Octoor 1/9/78** Signed General Electric Co. by (Representative) (Re					umatic,					_		
Supports: Skin No. Lugs Legs Other Attached None Rollis (4) Rollis Rollis (4) Rollis (4)											·	
Supports: Skirt No. Lugs Split Fing. 30455 1.060 None Rolfs (4) Rolfon.	 Nozzles and Inspetit 	ction Openir	ngs:									
Gas Port 1 .75" Split Fing. 30455 1.060 None Roles (4) Rottom. Water Port 1 .97" Split Fing. 30455 1.300 None Bolts (4) Top Supports: Skin No Lugs Other Attached (Petering) Remarks: Complete Mechanical Assembly with No Welded Joints. Although A Differential Pressure Exists on each side of the Internal Piston, the Accumulator Cylinder is Hydrostatically tested with the Piston removed. The Hydro Jest pressure is based on the higher design pressure. CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that all details of the pressure description of the ASME Code for Pressure Vessels, Seriol Vill Division 1. Date 15/18 Signed General Electric Co. by Minimization No. 10,572 expires June 10. 19.81. CERTIFICATE OF SHOP INSPECTION Vessel training General Electric Co. at Wilmington, N. C. 19.7 and employed by Dept Of Labor have inspected the pressure vessel described in this Manulacturers to made in this pressure vessel in accordance with SME Code, Section Vill, Division 1. By signing this certificate on the state of report or made in the Manulacture. The Inspector nor his employer makes any warranty, we reseased testing of implied, concerning the pressure vessel described in the Manulacture. The Inspector nor his employer makes any warranty, we reseased testing implied, concerning the pressure vessel described in the Manulacture. The Inspector nor his employer makes any warranty, the Inspector per implied, concerning the pressure vessel described in the Manulacture. The Inspector ror his employer makes any warranty, the Inspector per implied, concerning the pressure vessel described in the Manulacturer of the pressure vessel in accordance with the Inspector per lipide, concerning the pressure vessel described in the Manulacturer of the pressure vessel in accordance with the Inspector per lipide, concerning the pressure vessel described in the Manulacturer of the pressure vessel described in the Manulacturer of the pressure vessel described in the Manulacturer of the pre			_									
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Although A Differential Pressure Exists on each side of the Internal Piston, the Accumulator Cylinder is Hydrostatically tested with the Piston removed. The Hydro Test pressure is based on the higher design pressure. CERTIFICATE OF COMPLIANCE We confly that the statements made in this report are correct and that all details of Advisor related, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section Vill Division 1. Date 1/5/78 Signed General Electric Co. by (Manufacturer) (Manufacturer) (Manufacturer) (Representative) TU" Certificate of Authorization No. 10,572 expires June 10, 19.81. CERTIFICATE OF SHOP INSPECTION Vessel manufacturer in the Association issued by the National Board of Boiler and Pressure Vessel Inspectors bandor the State or Province of	. Supports: Skirt	NO Lugs .	Legs	Oth	er	(De	eccibal	Attach	cq	(Where en	d bowl	
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CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that all details of the pressure is described for Pressure Vessels, Section Vill Division 1. Date 1/5/78 Signed General Electric Co. by (Representative) "U" Certificate of Authorization No. 10,572 expires June 10, 19.8]. CERTIFICATE OF SHOP INSPECTION Vessel materia; General Electric Co. at Wilmington, N. C. CERTIFICATE OF SHOP INSPECTION Vessel materia; General Electric Co. at Wilmington, N. C. the undersigned, holding a solid memorission issued by the National Board of Boiler and Pressure Vessel Inspectors and on the State or Province of	<u> Although Al</u>	<u>Diffcren</u>	<u>tial Pr</u>	essure	<u>Exist</u>	s on	each si	de of t	he_Int	ernall	iston,	
CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that all details of public managerial, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII Division 1. Date	<u>the Accumula</u>	ator Cyl	<u>inder i</u>	s Hydro	statio	cally	tested	with t	he Pis	ton rer	noved.	
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII. Division 1. Date 7/5/78 Signed General Electric Co. by (Representative) [Manufacturer] (Representative) [Continued of Authorization No. 10,572 expires June 10, 15_8]. CERTIFICATE OF SHOP INSPECTION Vessel materials of Authorization No. 10,572 expires June 10, 15_8]. CERTIFICATE OF SHOP INSPECTION Vessel materials of Province of No. 10,572 expires June 10, 15_8]. The understanded, holding a valid provinciation issued by the National Board of Boiler and Pressure Vessel Inspectors and on the State or Province of No. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	_The_Hydro_Te	<u>est pres</u>	<u>sure is</u>	<u>based</u>	on th	<u>c hie</u>	her des	zgn pre	ssure.			
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FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS (Alternate Form for Single Chamber, Completely Shop-Febricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

	. Manufectured by	General Genera	Electr I Elect	TIC CO	pany.	P.O. B	0x / 60	NEBCY	ngcon	N.C.		-
_	. Manufactured for . Location of Installati			<u>`</u>	· <u>) </u>	<u> </u>	<u> </u>					-
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	AND PRESSURE VE	SSEL CODE.	The design	, constru	ction, and	workment	hip confi	orm to ASM	E Rules	Section V	II, Division	ì
	1974 and Addens		75 Datel	and Code	e Case No	<u> </u>						_
	Special Service per			As Per	This	Data R	eport	- See R	lemark	s Belov	,	_
	Manufacturers' Part	ral Data Rep	orts prope	rly identif	fied and s	igned by (Commiss	ioned Inspe	ctors h	eve been f	urnished fo	r
	the following items	of the repo	rt: Nom.	N/A_	-		 .		_			•
	. Shell: MetlSA_] (Spec. N	io Gradal	Thk		Corr. Allow	in.	Diam	<u>8.70</u> ;	n. Lgth	3_n_	2.38 in	• .
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	(b) Bortom	2,5"							7.23		rhead_	
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J.								np4 preseure32		. r.	emp. (when	
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11.	Nozdee and Inspecti	•	7:									
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FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

1. Owner Tennessee	Valley Authority (TVA)			Date June 7, 2005	-	:	£'
1101 Mark	et Street	*				, , ,	
Chattanood	ga, TN 37402-2801			. Sheet 1. of	4	ومعاسب سوا	
· •	Address						
2. Plant Browns Fe	rry Nuclear Plant (BFN) 	- ·	Unit 2			
 	Name	_	 . 	Work Order (WO) 04	-720767-00	0,	
P. O. Box 2	2000, Decatur, AL 356 Address	509-2000		Design Change Notice	(DCN) S18	3883A In P.O. No., Job No.,	ic .
3. Work Performed by	TVA-RFN			Type Code Symbol Sta	amp NV	γΔ	
· •	Name	500-2000		-	VA	<u> </u>	
F. O. Box 2	2000, Decatur, AL 356 Address		-				
				Expiration Date N	A .		
4. Identification of System	m System 085, Conf	trol Rod Drive (CRI	D) System (/	SME Code Class 1 equiva	alent)		
-	<u>, </u>						
5. (a) Applicable Constr	uction Code ASME S	ection III 19	74 Edition	, Winter 1975 Adde	nda,N	1207,1361-2	Code Case
				·			
(b) Applicable Edition	of Section XI Utilized fo	r Repairs or Replac	ements 19	95 Edition, 1996 Addenda	<u> </u>		
e tree		•					
6. Identification of Comp	onents				,e .e.		
	T	T				,	т
		[ASME
	.}	}	National			Corrected.	Code Stamped
Name of	Name of	Manufacturer	Board	Other	Year	Removed, or	(Yes
Component _	Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)
Control Rod Drive	General Electric	A4737	. N/A	2-CRDM-085-42-15	1996	Removed	Yes
Mechanism 42-15	Nuclear Energy	74/5/		2-ONDIVI-003-42-13	1550	Memoved	163
Control Rod Drive Mechanism 42-15	General Electric Nuclear Energy	A5417	N/A	2-CRDM-085-42-15	1992	Installed	Yes
Control Rod Drive	General Electric	A5712	N/A	2-CRDM-085-42-47	1996	Removed	Yes
Mechanism 42-47 Control Rod Drive	Nuclear Energy General Electric	A4176	N/A	2-CRDM-085-42-47	1992	Installed	Yes
Mechanism 42-47	Nuclear Energy	A4176	1 1 1 1	2-0HDIVI-003-42-47	1992	Installed	6
Control Rod Drive	General Electric	A5646	N/A	2-CRDM-085-10-39	1996	Removed	Yes
Mechanism 10-39 Control Rod Drive	Nuclear Energy General Electric	A8993	N/A	2-CRDM-085-10-39	1992	Installed	Yes
Mechanism 10-39	Nuclear Energy					<u> </u>	<u> </u>
1,	<u></u>	dentification of Com	ponents con	inued on Page 2	· · ·	· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·		altica i				lie s	
7. Description of Work	Replaced 20 Control I	Rod Drives (CRD) v	with refurbish	ed BWR/6 CRDs.			
							
8. Tests Conducted:	Hydrostatic 🔲 😘 I	Pneumatic	Nominal	Operating Pressure	Exempt		
	Other [7]	ouro N/A -	.i T-	at Town N/A or		6.4496	1
	Other Pres	sure <u>N/A</u> p	si Te	st Temp. N/A °F			
					- • -		

NOTE: Supplemental Sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

W	D: <u>04-720767-000</u>
9.	Remarks Replaced 20 Control Rod Drives (CRD) with refurbished BWR/6 CRDs previously installed at BFN.
	Applicable Manufacturer's Data Reports to be attached
	Transfer of the state of the st
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	CERTIFICATE OF COMPLIANCE
	I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp - N/A
	Type code Symbol Stamp ** 147.
	Certificate of Authorization No. N/A Expiration Date N/A
	Signed Stark (1) // // System Engineer Date 6-15 20 05
	Owner of Owrier's Designed Title
•	
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
•	or Province of Tennessee and employed by HSBCT of Connecticut have inspected the components described
•	in this Owner's Report during the period 3/25/05 to 6/16/05 and state that
	to the best of my knowledge and belief, the Owner has performed examinations and takeh corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
	examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Commissions TN 4011
,	Inspector's Signature Commissions / V 7011 National Board, State, Province, and Endorsements
	Date6/16 20 05
<u>`</u>	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY SUPPLEMENTAL SHEET

Owner _Tennessee \	Valley Authority (TVA)	<u> </u>	<u>.</u>	Date <u>June 7, 2005</u>			
1101 Marke	Name et Street # 하다	·	_	\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Chattanoog	a. TN 37402-2801		_	Sheet 2 of	4	·	
	Address rv Nuclear Plant (BFN)	<u> </u>		Unit , _2		**	
z. Han <u>Diotribi ci</u>	Name				20707 00	· ······	
P. O. Box 2	000 Decatur AL 356	09-2000		Work Order (WO) 04-72 Design Change Notice (I	CNI STE	RRRAD	• ,
3. Work Performed by _	Address		_	Repair/Replacement Type Code Symbol Stam	Organizatio	n P.O No . Job No . e	tc
· -	Name	09-2000	-				
P. O. B0X 2	000 Decatur AL 356 Address	09-2000	-	Authorization No N/A			``
4. Identification of System	n System 085, Cont	rol Röd Drive Syster	n (ASME	Expiration Date <u>NA</u> Code Class 1 equivalent)			
·						1007 4004 6 6	
	iction Code ASMES of Section XI Utilized for					1207 1361-2 C	ode Case
6. Identification of Compo		ricpans of ricpiace		20, 1000 Adderida			
					<u> </u>	i	ASME
	ه دهی شدیدست		4	. we so some an emergence of			Code
Name of	· · · · Name of · · ·	[™] Manufacturer [™]	National Board	Other	Year	Corrected, Removed, or	Stamped (Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)
Control Rod Drive	General Electric	A4702	NA	2-CRDM-085-14-43	1996	Removed	Yes
Mechanism -14-43	·Nuclear Energy -			, ~ ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Control Rod Drive	General Electric	A5322	NA	2-CRDM-085-14-43	1992	Installed ·	Yes
Mechanism 14-43	Nuclear Energy						
Control Rod Drive	General Electric Nuclear Energy	· · · A4141 ~ ~~	- N/A -	2-CRDM-085-22-1	1996	Removed	Yes
Control Rod Drive	General Electric	A4786	. N/A	-2-CRDM-085-22-1	1992	Installed	Yes
Mechanism 22-1	Nuclear Energy	, ,,					
Control Rod Drive	General Electric	A4846	nutN/A his	2-CRDM-085-22-43	1996	Removed	· Yes,
	Nuclear Energy	4505					
Jontrol Rod Drive Mechanism 22-43	General Electric Nuclear Energy	A3924	.NA	2-CRDM-085-22-43	1992	Installed	Yes
Control Rod Drive	General Electric	A3978	N/A	- 2-CRDM-085-38-59	1996	Removed	Yes
Mechanism 38-59	Nuclear Energy		,				
Control Rod Drive	General Electric	A3976	_N/A	2-CRDM-085-38-59	1992	Installed	Yes
Mechanism 38-59	Nuclear Energy	AFCCO	N/A	2-CRDM-085-38-35	4000		- V
Control Rod Drive Mechanism 38-35	General Electric Nuclear Energy	A5660	N/A	2-CHUM-085-38-35	1996	Removed	Yes
Control Rod Drive	General Electric	A5429	· ·N/A · · ·	2-CRDM-085-38-35	1992	Installed	Yes
Mechanism 38-35	Nuclear Energy				Ĺ	l	
	ld	lentification of Comp	onents cont	inued on Page 3			
7. Description of Work	Replaced 20 Control F	Rod Drives (CRD) w	ith refurbish	ed BWR/6 CRDs.		•	
				· · · · · · · · · · · · · · · · · · ·			
8. Tests Conducted:t	Hydrostatic · L_J · F	neumatic	Nominal (Operating Pressure	Exempt	Ц	
	Other Pressure NA psi Test Temp. NA *F						
·						•	• ,-
						• •	

			·		FORM NIS-2, SUPPLEMENTAL SHEET (Back)	
WID:	04-72	0767-00	0			
•	Remarks	See	back of	sheet	1	
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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY SUPPLEMENTAL SHEET

Owner <u>Tennessee</u>	-	Date	June 7, 2005					
1101 Marke	1101 Market Street							
Chattanoog	a TN 37402-2801		_	Sheet	_3 of	4		
2. Plant Browns Fer	Address rv Nuclear Plant (BFN))		Unit	2			
	Name .		-		Order (WO) 04-72	20767-006	· · · · · · · · · · · · · · · · · · ·	
P. O. Box 2	000 Decatur AL 356	09-2000	_		Change Notice (I	OCN) 518	1883A	
3. Work Performed by	TVA-BFN Address			Type C	Repair/Replacement ode Symbol Stam	Organization	n P.O. NoJob No. e	te
	Name	609-2000	-	• •	zation No N/A			
	Address		_		ion DateN/A_	\ 		
4. Identification of System	System 085, Cont	rol Rod Drive System	m (ASMÈ					
5. (a) Applicable Constru	ction Code ASMES	ection III 19 7	4 Edition	Wint	er_1975 Adden	ida N	1207 1361-2 C	ode Case
	of Section XI Utilized for							
6. Identification of Compo	pnents							
								ASME
			National			} "	Corrected.	Code Stamped
Name of	Name of	Manufacturer	Board	•	Other	Year	Removed, or	(Yes
Component	- Manufacturer	Serial No.	No	. Ide	entification	_Built_	Installed	_or No)
Control Rod Drive	General Electric	A4538	NA	2-CRE	M-085-46-11	1996	Removed	Yes
Mechanism 46-11	Nuclear Energy	AFAFF	NI/A	0.005	11.005.40.44	4000	1=-4-111	-
Control Rod Drive Mechanism 46-11	General Electric Nuclear Energy	A5155	, , , , , , , , , , , , , , , , , , ,	2-CHL)M-085-46-11	1992	_ Installed	Yes
Control Rod Drive	General Electric	A3931 -	··· NA····	2-CRE	M-085-50-35	1996	- Removed ··	- Yes
Mechanism 50-35	Nuclear Energy				· ·	<u> </u>		
Control Rod Drive	General Electric	A4447	N/A	2-CR	M-085-50-35	1992	Installed	Yes
Mechanism 50-35	Nuclear Energy General Electric	A5624	N/A	2-CBI	DM-085-54-43	1996	Removed	Yes
echanism 54-43	Nuclear Energy	~=- x · · · · · · · · · · · · · · · · · ·			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Hemoved	
ontrol Rod Drive	General Electric	A4820	N/A	2-CRE	M-D85-54-43	1992	_ Installed	Yes
Mechanism 54-43	Nuclear Energy							
Control Rod Drive Mechanism 58-39	General Electric Nuclear Energy	A5629	N/A	2-CHL	DM-085-58-39	1996	Removed	Yes
Control Rod Drive	General Electric	A4790	N/A	2-CR	M-085-58-39	1992	Installed	Yes ·
Mechanism 58-39	Nuclear Energy	<u> </u>	<u> </u>		<u></u>	<u> </u>	<u> </u>	<u> </u>
Control Rod Drive	General Electric	A4091	NA	2-CRE	OM-085-02-27	1996	Removed	Yes
Mechanism 02-27 Control Rod Drive	Nuclear Energy General Electric	A4376	N/A	2.000	OM-085-02-27	1992	Installed	Yes
Mechanism 02-27	Nuclear Energy	, A4570	187	2-Uni	JIVI-065-02-27	1992	Installed	165
	lc	lentification of Comp	onents cont	inued on P	age 4			
7. Description of Work	Replaced 20 Control F	Rod Drives (CRD) w	ith refurbish	ed BWR/6	CRDs.			··
8. Tests Conducted:	8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt							
C	Other Pres	sure <u>N/A</u> ps	si Te	est Temp.	N/A °F			

FORM NIS-2, SUPPLEMENTAL SHEET (Back)

WID: - 04-720767-					
Remarks Se	be back of sheet 1.				
					
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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY SUPPLEMENTAL SHEET

Owner <u>Tennessee</u>	Valley Authority_(TVA)_		_	Date <u>June 7, 2005</u>			
1101 Marke	et Street Name	.'	_				
	a TN 37402-2801			Sheet _4 of _	4		
	Address	·	-	 -			
2. Plant Browns Fer	ry Nuclear Plant (BFN)		-	Unit _2			
D.O. David	•	no none	.` .`	Work Order (WO) 04-72			
	000 Decatur AL 356 Address	09-2000	_	Design Change Notice (C Recair/Replacement	Organizatio	n P.O. No . Job No . e	tc
3. Work Performed by _	TVA-BFN Name		_	Type Code Symbol Stam	P _N/		
P. O. Box 2	000 Decatur, AL 356	09-2000		Authorization NoNA	<u> </u>		
	Address			Expiration Date N/A			
4. Identification of System	n "System 085, Cont	rol Rod Drive System	n (ASME	Code Class 1 equivalent)			
5. (a) Applicable Constru	ection Code : ASME S	ection III " 19 ' 7	'4" Edition	Winter 1975 Adden	da N	1207 1361-2 C	ode Case
	of Section XI Utilized for				uu,		· ·
6. Identification of Compo		, repaire or viopiasi	_	00, 1000 / 1000/100			
<u> </u>	, , ,					<u> </u>	ASME
						• • • • • •	Code
			National			Corrected.	Stamped
Name of	Name of	Manufacturer	- Board ·	Other 1	Year	Removed, or	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)
Control Rod Drive	General Electric	A4307	N/A	2-CRDM-085-06-15	1996	Removed	Yes
Mechanism_06-15	Nuclear Energy		*****	gradient of the second of the second of the		· · · · · ·	<u> </u>
Control Rod Drive	General Electric	A3834	NA	2-CRDM-085-06-15	1992	Installed	Yes
Mechanism 06-15	Nuclear Energy			the second of th			<u> </u>
Control Rod Drive	General Electric	A4688	NA	2-CRDM-085-10-43	1996	Removed -	Yes
Mechanism 10-43	Nuclear Energy						
Control Rod Drive	General Electric	A5312 ~	~'NA***	****2-CRDM-085-10-43	1996	Installed	Yes
Mechanism 10-43	Nuclear Energy				· ·	·_	
"ontrol Rod Drive !"	General Electric	A3819	N/A	2-CRDM-085-22-07	1996	Removed	Yes
chanism 22-07	Nuclear Energy	40077	A1(A	0.00011.000.00.07	4000	1 -1-11-4	- 3/
Jontrol Rod Drive Mechanism 22-07	General Electric Nuclear Energy	A3877	N/A	2-CRDM-085-22-07	1992	Installed	. Yes
Control Rod Drive	General Electric	A5234	N/A	2-CRDM-085-26-07	1996	Removed	Yes
Mechanism 26-07	Nuclear Energy	A3234	1 1 1	2-Chbivi-065-20-07	1550	Heilioved	'ఏ
Control Rod Drive	General Electric	A3707	N/A	2-CRDM-085-26-07	1992	Installed	Yes
Mechanism 26-07	Nuclear Energy	7,0707	107	2 01 1510 000 20 07	, ,,,,,	# ISILATOG	1
Control Rod Drive	General Electric	A4814	N/A	2-CRDM-085-30-35	1996	Removed	Yes
Mechanism 30-35	Nuclear Energy		,,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1
Control Rod Drive	General Electric	A5450	N/A	2-CRDM-085-30-35	1996	Installed	Yes.
Mechanism 30-35	Nuclear Energy						
Control Rod Drive	General Electric	A4842	NA	2-CRDM-085-34-59	1996	Removed	Yes
Mechanism 34-59	Nuclear Energy			•			
Control Rod Drive	General Electric	A3987	NA	2-CRDM-085-34-59	1992	Installed	Yes
Mechanism 34-59	Nuclear Energy	A5444		0.00011.005.40.54	4000		\
Control Rod Drive	General Electric	A5111	N/A	2-CRDM-085-46-51	1996	Removed	Yes
Mechanism 46-51 Control Rod Drive	Nuclear Energy General Electric	A5036	N/A	2-CRDM-085-46-51	1992	Installed	Yes
Mechanism 46-51	Nuclear Energy	A3035	. "	2-010101-060-40-51	1332	Installed	1.65
7. Description of Work	Replaced 20 Control F	Rod Drives (CRD) w		ed BWR/6 CRDs.	<u> </u>		
•							
		neumatic		Operating Pressure 🛛	Exempt	L	
C	Other Pres	sure <u>N/A</u> ps	i Te	st Temp. N/A °F			
							•

04-720767-00 Remarks: See		, .
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ORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*
As required by the Provision of the ASKE Code Rules, Section III, Div. I

1. Hanufactured & Certified by : General Electric Company Nuclear Fuel & Components Man	ufacturina (GENF&CM)
2117 Castle Hayne Road, Wilmington, North Carolina 2840	
(b) Hamiltoniand for a TVA Chattanoore Tennasses 37402-2127	
(Name and Address of N Certificate Holder for completed nuclear	component)
. Identification - Certificate Holder's S/N of Part : <u>A5417</u> Natl Bd. No. <u>N</u>	<u>/A</u>
(a) Constructed According to Drawing No: 768E534G008 RBV 9 Dwg. Prepared by D.L.P.	- · · ·
(b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005	4.4
(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No.	N207 1361-2 Class 1
3. REMAKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psl. min.	
(Srief description of service for which component was designed)	•• • •
and the second of the second o	- •
	
	Sheet 1 of 2
Gate: 06/25/92 Signed GE-NEBG-NF & CM-QA By SC ON Ref (BPT Certificate Bolder) SC ON Ref Certificate of Authorization Expires: 6/18/93 Certification of Authorization No. : NPT	resentive) N - 1151
Certification of Design for Appurtenance	,
Design information on file atGE.Company. San Jose. California	
Stress analysis report on file at	
DC22A6253 Rev. 1 Design specification certified by <u>Biorn Haaberg</u> Prof. Eng. State <u>Calif</u> Reg. No. <u>15</u>	<u>570</u>
OC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>A</u>	1018646
Certification of Shop Inspection	
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure In State or Province of North Carolina and employed by Department of Labor of State of Notinspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has construe accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressionering the part described in the Partial Data Report. Furthermore, neither the Inspector shall be liable in any manner for any personal injury or property damages or a loss of any kin connected with this inspection. Solution Solution NC 1231, Ohio, WC 36	nth Carolina have 19, 1992. Ited this part in ressed or implied, nor his employer and arising from or
Date Inspector's Signature National Board, State, Pr	rovince And No

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

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FORM N-2 NPT CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES As required by the Provision of the ASHE Code Rules, Section III, Div. I

1.	Manufactured & Certified by :	General Electric Company Nuclear Fuel & Components Manufacturing	(GENF&CM)
		2117 Castle Havne Road, Wilmington, North Carolina 28401	•

(See and Address of NTT Certificate Bolder)

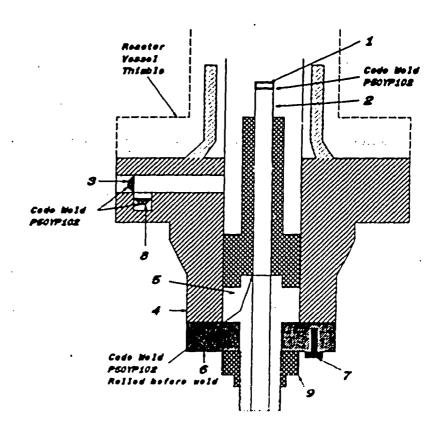
(b) Namufactured for a TVA Chattanooga, Tennessee 37402-2127

(Name and Address of N Cortificate Molder for completed muclear component)

- 2. Identification Certificate Holder's S/N of Part : A5417 Natl Bd. No. N/A
 - (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D.L. Polerson
 - (b) Description of Part Inspected: <u>Control Rod Drive</u>, <u>Model # 7RDB144FG005</u>
 - (c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1
- 3. REMAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.

 (Brief description of service for which component was designed)

- 1. Cap 16686274P001 SA182 - F304 3/8" Whick # 1 1/16" OD
- 2. Indicator Tube 18689313F001 SA312 - TP318 3/4" sch 40 - seamless pipe 0.113" well thickness 1.064" max. dis.
- 3. Plug 158A1176P001 SA182 - F304 1/4" thick it 0.812" OO
- 4. Flange \$180610F001 (710E474) \$A182 - F304 3.37 thick x \$ 5/8' OO
- 5. Base 137C5311P001 SA182 - F304 7/8" thick is 2.875" die.
- 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1' thick x 6.0' OD x 1.75' ID
- 7. Cap Screw 117C4516P002 SA193 - 88 6 ea. 1/2' dia. on 4 1/8' box circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia.
- 9 Nut 137C5934P001 XM - 19 SA479 1 30' thick # 2.62' dia



FORM N-2 MPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ASME Code Rules, Section III, Div. I

1. 19

1. Natural artifold by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
2117 Castle Havne Road, Wilmington, North Carolina 28401 (Name and Address of EPT Cartificate Solder)
(b) Manufactured for : TVA Chattanooca, Termessee 37402-2127 (Hemo and Address of # Cartificate Holder for completed Business component)
2. Sentification - Certificate Holder's S/N of Part : A4176 Nati Bd. No. N/A
Constructed According to Drawing No: 768F534G008 Rev 9 Dug. Prepared by D. L. Pelerson
(b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005
(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
3. REWARS: Standard part for use with Reactor, Hydrostatically tested at 1825 psl. min. (Brief description of service for which component was designed)
. Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report of the appurtenance is not included in the component Design Specification and Stress Report). Dete: 9/14/92 Signed GF-NFBG-NFB CM-QA By By Conference Conference of Authorization Expires: 6/18/93 Certification of Authorization No.: NPTN-1151
Certification of Design for Appurtenance
Design information on file atGE Company . San Jose . California
Stress analysis report on file atGE Company . San Jose . California
DC22A6253 Rev. 1 Design specification certified by <u>Blom Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>
OCZZA6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
Certification of Shop Inspection
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
Date Inspector's Signature National Board, State, Province and No.
Date Inspector's Signature National Board, State, Province And No

13/25/05

4.11

^{*}Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

FORM N-2 NPT CERTIFICATE HOLDERS DATA REMORTS OR NUCLEAR PART AND APPURTENANCES. As required by the Provision of the ARM Code Rules, Section III, Div. I

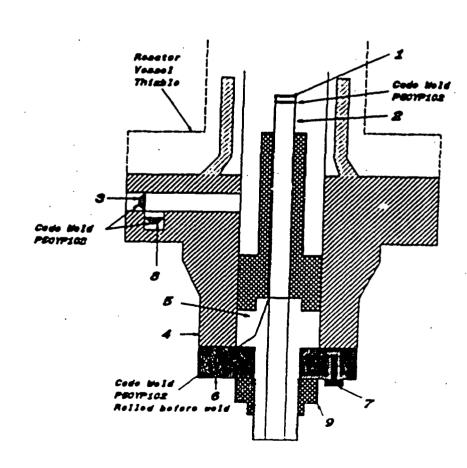
	and the second s			•	
ı.	Manufactured & Certified to	: Genera	l Electric Company Nuclear Fu	vel & Components Manufacturing (GE)	NF& CM)

2117 Castle Havne Road, Wilmington, North Caroline 28401

(b)	Hemefactured for	
	•	(Name and Address of H Cortificate Helder for completed purposet)

- 2. Identification Cortificate Molder's S/N of Part : M176 Nati Bd. No. N/A
 - (a) Constructed According to Drawing No: 7885534G008 Ray 9 Day. Prepared by D. L. Poterson
 - (b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005
 - (c) Applicable ASME Code: Section III . Edition 1974 . Addende Date W75 . Case No. N207 1361-2 Class 1
- 3. RDWKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.
 (Brief description of service for which component was designed)

- 1. Cap 16686274P001 8A182 - P304 3/8" skick x 1 1/16" CO
- 2. Indicator Tube 1668q313P001 SA312 - TP316 3/4' soft 40 - securiose pipe 0.113' unit thickness 1.065' mar. dis.
- 3. Phg 188A1178F001 SA182 - F304 1/4" shiot u 0.812" OD
- 4. Fiange 9190610P001 (719E474) SA122 - F304 3.37* Inick x 9 E/8* OD
- 8. Base 137CS311F001 SA182 - F304 7/8' shick is 2.873' dia.
- 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA162 - F304 1*shick x 5.0* OO x 1.75*10
- 7. Cap Screw 117C4518P002 SA193 - 86 6 et. 1/2' die. on 4 1/8' bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" die.
- 9. Nut 137C5934P001 XM - 19 SA479 1,30" thick # 2,62" dis.



a 1,2 9 7 4 3 0 0 0 0

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

1.	Hanufactured & Certified by : General Electric Comsany Nuclear Fuel & Components Manufacturing (GE NF & CM)				
	2117 Castle Hayne Road, Wilmington, North Carolina 28401				
	(Name and Address of NPT Certificate Holder)				
	(b) Hanufactured for : TVA Chattanooga, Tennessee 37402-2127 (Name and Address of N Certificate Holder for completed nuclear component)				
2.	Identification - Certificate Holder's S/N of Part : A8993 Nat'l Bd. No. N/A				
	(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Peterson				
	(b) Description of Part Inspected: <u>Control Rod Drive</u> , <u>Model # 7RDB144FG005</u>				
	(c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1				
3.	REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. (Brief description of service for which component was designed)				
	Sheet 1 of 2				
	We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPI Certificate Holder for parts. An NPI Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).				
	Date: 10/06/92 Signed GE-NEBG-NF & CM-QA By Scott Representive)				
	Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPT N - 1151				
	Certification of Design for Appurtenance				
	Design information on file atGE Company, San Jose, California				
	Stress analysis report on file at				
	DC22A6253 Rev. 1 Design specification certified by <u>Biorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>				
	DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>				
-					
	Certification of Shop Inspection				
	I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 7/83, 1972, and state that to the best of my knowledge and belief, the MPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.				
	Date 1972 Open Form NC 1231, Ohio, WC 3686 PA Inspector's Signature National Board, State, Province And No.				
	Date'				

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^{*}Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

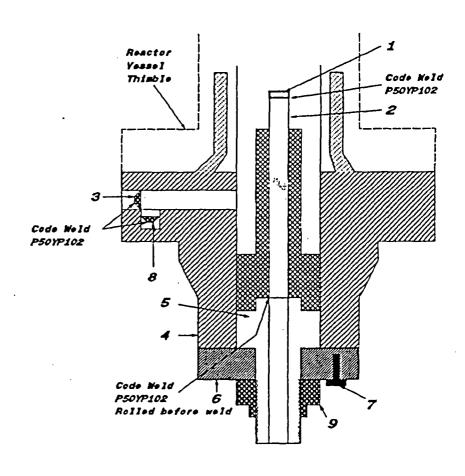
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FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

1.	Manufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
	2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of NFT Certificate Bolder)
	(b) Hanufactured for: TVA Chattanoogs, Tennessee 37402-2127
	(Name and Address of N Certificate Holder for completed nuclear component)
2.	Identification - Certificate Holder's S/N of Part : A8993 Nat'l Bd. No. N/A
	(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Peterson
	(b) Description of Part Inspected: <u>Control Rod Drive</u> , <u>Model # 7RDB144FG005</u>
	(c) Applicable ASME Code: Section III , Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
3.	REHARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.

(Brief description of service for which component was designed)

- 1. Cap 166B9274P001 SA182 - F304 3/8* thick x 1 1/16* OD
- 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.065" max. dia.
- 3. Plug 159A1176P001 SA182 - F304 1/4" thick x 0.812" OD
- 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD
- 5. Base 137C5311P001 \$A182 - F304 7/8" thick x 2.875" dia.
- 6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1° thick x 5.0° OD x 1.75° ID
- 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 \$A182 - F304 0.38° thick x 1.307° dia.
- 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.



FOR N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

1.	Manufactured & Certifier by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM) 2117 Castle Havne Road, Wilmington, North Caroline 28401 (Name and Address of EFT Castlitente Bolder)
	Manufactured for : TVA Chaffanooca, Ternessee 37402-2127 (Manufactured for : TVA Chaffanooca, Ternessee 37402-2127 (Manufactured for : TVA Chaffanooca, Ternessee 37402-2127
K	dentification - Certificate Holder's S/N of Part : A5322 Nati Bd. No. N/A
1	a) Constructed According to Drawing No: 768E534G008 Rev 9 Dug. Prepared by D.L. Peterson
	(b) Description of Part Inspected: <u>Control Rod Drive</u> , <u>Model # 7RDB144FG005</u>
	(c) Applicable ASME Code: Section III , Edition <u>1974</u> , Addends Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3	REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. (Brief description of service for which component was designed)
	Sheet 1 of 2
	We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. { The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report }. Date: 03/26/92 Signed GE-NEBG-NF&CM-OA By BC OM Representive } Certificate of Authorization Expires: 8/16/93 Certification of Authorization No.: NPTN-1151
	Certification of Design for Appurtenance
	Design information on file atGE Company . San Jose . California
	Stress analysis report on file atGE Company . San Jose . California
,	DC2ZA6253 Rev. 1 Design specification certified by <u>Blom Haaberg</u> Prof. Eng. State <u>Callf.</u> Reg. No. <u>15570</u>
	DC22A6254 Rev 1 Stress enalysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	· · · · · · · · · · · · · · · · · · ·
	Certification of Shop Inspection
	I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 3/20, 1992, and state that to the best of my knowledge and belief, the MPT Certificate Holder has constructed this part in accordance with the ASME Code Section III By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	Dete 1792 Jesome P Grove NC 1231 Ohio WC 3686 PA Dete National Soard, State, Province And No
	V improve a comment of the comment o

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

3/25/105

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ARK Code Rules; Section III, Div. I

ı.	Natural State of the State of t	& CHI
	2117 Castle Havne Road, Wilmington, North Caroline 28401	

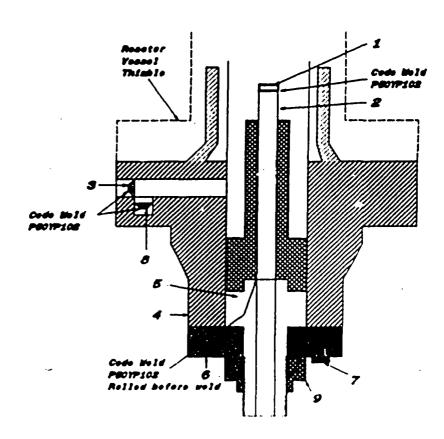
(Name and Address of NTT Cortificate Helder)

(b)	Hanufactured for :	TVA C	hettanooge, Tennesse	M 37402-2127	
		A Mars and Add.	sees of M Contificate !	Inlian for anniated males.	

- 2. Identification Certificate Neider's S/N of Part : _A5322 _____ Nat1 Bd. No. __ N/A
 - (a) Constructed According to Drawing No: 768E534G008 Rev. 9 Dug. Prepared by D.L. Peterson
 - (b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005
 - (c) Applicable ASPE Code: Section III . Edition 1974 . Addenda Data W75. Case No. N207.1361-2 Class 1
- 3. RIWKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min.

 (Brief description of service for which component was designed)

- 1, Cap 16689274F001 8A162 - F304 3/8" Sick x 1 1/16" 00
- 2. Indicator Tube 16688313P001 8A312 - TP316 3/4" sch 40 - seemises pipe 0.113" wall thickness 1.063" max. clis.
- 3. Plug 158A1178F001 8A182 - F304 1/4" Wick x 0.812" CO
- 4. Flange 919D610F001 (719E474) SA182 - F304 3.37* shick is 9 6/8* OD
- 5. Base 137C5311F001 = SA182 - F304 7/8" thick s 2.875" dla.
- 8. Ring Flange 11485123F002, F003 137C8181F001, F002 SA182 - F304 1" thick x 5.0" OD x 1.75" ID
- 7. Cap Screw 117C4518P002 SA193 - Bd 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" shick x 1,307" die.
- 9 Nut 137C5934P001 XM - 19 SA479 1 30° thick x 2 62° dia.



FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES*

As required by the Provision of the ASHE Gode Rules, Section III, Div. I

The Application of the Control of th	
Manufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & C	W)
2117 Castle Havne Road, Wilmington, North Carolina 28401	· · · · · · · · · · · · · · · · · · ·
(b) Natural for : TVA Chattanooga, Tennessee 37402-2127	
(Name and Address of N Certificate Solder for completed nuclear component)	
. Identification - Certificate Holder's S/N of Part : <u>A4786</u> Nat'l Bd. No. <u>N/A</u>	
(a) Constructed According to Drawing No: 768F534G008 Ray 9 Dwg. Prepared by D. L. Peterson	
(b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005	
(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1381-2 Class 1	<u>_</u>
3. REMARKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psi, min. (Brief description of service for which component was designed)	
Sheet 1 of 2	
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenant is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included it the component Design Specification and Stress Report). Date: <u>04/24/92</u> Signed <u>GE-NEBG-NF & CM-QA</u> (NPT Certificate Holder) Sc Or Representive) Certificate of Authorization Expires: <u>6/16/93</u> Certification of Authorization No.: <u>NPT N-1151</u>	is ices
Certification of Design for Appurtenance	
Design information on file at <u>GE Company, San Jose, California</u>	
Stress analysis report on file atGE Company . San Jose . California	
DC22A6253 Rev. 1 Design specification certified by <u>Blorn Heaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>	
OC22A8254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018648</u>	
Certification of Shop Inspection	-
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 1/0.1972, and state that to the best of my knowledge and Legist, the NPI Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspection on his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Ampoit. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal in any or connected with this inspection. NC 1231, Ohio, WC 3686 PA	
Date 1/34 1972 Inspector's Signature NC 1231, Ohio, WC 3686 PA Nettonal Buard, State, Province And No.	

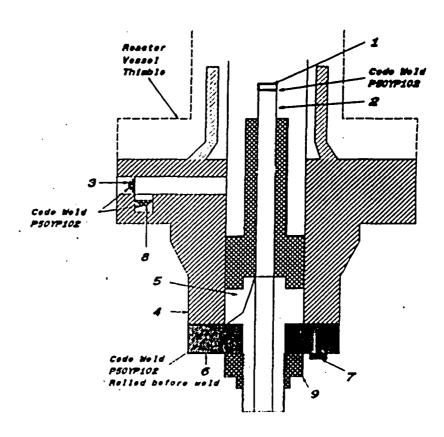
*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

(N3/25/25

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. As required by the Provision of the ASME Code Rules, Section III, Div. I

	Sheet 2 of 2
3.	REWAXS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min. (Brief description of service for which component was designed)
	(c) Applicable ASME Code: Section III . Edition 1974, Addenda Date W75. Case No. N207 1381-2 Class 1
	(b) Description of Part Inspected:Control Rod Drive . Model # 7RDB144FG005
	(a) Constructed According to Drawing No: 788E534G008 Ray 9 Dag. Prepared by D. L. Paterson
2.	Identification - Certificate Holder's S/N of Part : A4788 Nat'l Bd. No. N/A
	A Province of Bane and Address of F Certificate Solder for completed nuclear component)
	(b) Nerrefactured for : TVA Chattanooga, Tennessee 37402-2127
	(Hame and Address of MTT Certificate Bolder)
	2117 Castle Havne Road, Wilmington, North Carolina 28401
1.	Negulactured & Certified by a General Electric Company Nuclear Fuel & Components Manufacturing (GENE & CM)

- 1. Cap 18689274P001 SA182 - F304 3/8" shick x 1 1/18" OD
- 2. Indicator Tube 18689313F001 8A312 - TP318 3/4° solt 40 - seamless pipe 0.113° well thickness 1.005° mex. clis.
- 3. Phig 159A1178P001 8A182 - F304 1/4" Bhith x 0.812" QO
- 4. Flange \$190610P001 (719E474) \$A182 - F304 3.37' shick x \$ \$/8' OD
- 5. Base 137C3311P001 SA182 - F304 7/8" thick is 2.875" cts.
- 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1' thick x 5.0' OO x 1.75' ID
- 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" shick x 1.307" die.
- 9. Not 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.



FORMAN-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* La required by the Provision of the ASME Code Rules, Section III, Div. I

1. Hapfractured & Certified by: General Electric Company Nuclear Fuel & Components Manufacturing (GENFS CM) 2117 Casile Haves Road, Wilminston, North Carolina 28401 (Rean and Address of ET Cartificate Bulder) (B) Manufactured for: IVA Chettangoog, Ternesses 27400-2117 (Eleme and Address of ET Cartificate Bulder) (Continuous Ternesses 27400-2117 (Eleme and Address of Et Cartificate Bulder) (Address of ETT Cartificate Bulder) (Address of ETT Cartificate Bulder) (B) Description of Part Inspected: Control Road Date 9 by Prepared by D. L. Paterson. (C) Description of Part Inspected: Control Road Date 4 MOBBLE 4 TROB144FG005 (C) Applicable ASM Code: Section III. (dition 1974, Addenda Date WTS, Case No. N207 1361-2 Class 1 3. REMARKS: Standard part for use with Reactor. Hydrostatically instead at 1825 psj. min. (Exist description of particus of particus for which companies was designed) Sheet 1 of 2 We certify that the statements in this report are correct and this versal part or abountsoance as defined in the code conforms to the review of the AMM Code Section III. I the applicable Designed Sectification and Stress Report is not the related to the AMM Code Section III. I the applicable Designed Sectification and Stress Report is not be review as a section of the AMM Code Section III. I the applicable Designed Sectification and Stress Report (Cartification Sectification and Stress Report in the component Design Sectification and Stress Report if the appartance is not included in the component Design Sectification Express: \$/18/82. Certification and Stress Report if the appartance is not included in the component Design Sectification Express: \$/18/82. Certification and Stress Report in Cartification Cartification Cartification Cartification Authorization No.: NOTIN-1151 Certification of Depting for Appurtenance Design information on file at GE Company. San Jose, California Stress analysis report certified by Biom Headery Prof. Ing. State Calif. Rep. No. 15570 Certification of Shop Inspection of Book	
(B) Manufactured for: TVA Chattanoons Terrossees 37407-2127 (Bane and Address of F Cartificate Bulder of the component of th	1. New Tectured & Cert If led by : General Electric Company Nuclear Fuel & Components Manufacturing (GENE & CM)
Identification - Certificate Holder's S/N of Part: A3724 Nati Bd. No. N/A	
Identification - Certificate Holder's S/N of Part: A3724 Nati Bd. No. N/A	(b) Manufactured for : TVA Chattanooca Tennessee 37402-2127
(a) Constructed According to Drawing No: 188E534G008 Rev 9 Deg. Prepared by D. L. Peterson (b) Description of Part Inspected: Control Rod Drive. Model & TRDB144FG005 (c) Applicable ASKE Code: Section III. Edition 1974. Addends Date WT5. Case No. NZOT 1361-2 Class 1 3. REMARKS: Standard part for use with Reactor. Hadrostatically tested at 1825 pst. min. (a) Brief description of service for which component was designed.) Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtmenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the RPI Cartificate Nolder for parts. An RPI Cartification Holder for appurtmenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtmenance is not included in the component Design Specification and Stress Report.) Date: 03/26/82 Signed GE-NEBG-NFB CM-OA REF Cartificate Builder: Certificate of Authorization Expires: 5/15/93 Cartification of Authorization No.: NPTN-1151 Certification of Design for Appurtmenance Design information on file at GE Company. San Jose, California Stress analysis report on file at GE Company. San Jose, California DC22A8253 Rev. 1 Design specification certified by Biom Hasberg Prof. Eng. State Calif. Reg. No. 15570 CC22A8254 Rev. 1 DC22A8254 Rev. 1 Stress analysis report certified by Edward Yoshio. Prof. Eng. State Calif. Reg. No. MO18646. Certification of Shop Inspection 1, the understyped, holding a valid commission by the National Board of Bother and Pressure Inspectors and/or the State or Province of North Caroling. And employed by Description of Shop Inspection 1, the understyped, holding a valid commission by the National Board of Bother and Pressure Inspectors and/or the State or Province of North Caroling. And employed by Description of Shop Inspection 1, the understyped, holding a valid commission by the National Board	
(b) Description of Part Inspected: Control Rod Drive, Model # 7RDB144FG005 (c) Applicable ASM Code: Section III. Edition 1974. Addende Date W75. Case No. N207 1361-2. Class 1 3. REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. (Brief description of service for which component was designed) Sheet 1 of ? We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASM Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the MT cartificate Moder for parts. An MPI Certification folder for appurtenances in responsible for for health of the Price of Parts. An MPI Certification folder for appurtenances in responsible for for parts. An MPI certification folder for appurtenances in responsible for for health of the Price of Parts. Date: 03/26/P2 Signed GF. NEEG. NF & CM. OA. (Efficiential Section III. Certificate Moder) Certificate of Authorization Expires: 8/16/P3. Certification of Authorization No.: NPTN-1151 Certification of Design for Appurtenance Design information on file at GF. Composity. San Jose. Cellionia Stress analysis report on file at GF. Composity. San Jose. Cellionia DC22A8253 Rev. 1 Design specification certified by Blom Heaberg. Prof. Eng. State Celli. Reg. No. 15570 DC22A6254 Rev 1 Stress analysis report certified by Edward Yoshio. Prof. Eng. State Celli. Reg. No. MO18646 Certification of Shop Inspection 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Caroling. and semilored the part of a pressure vessel described in this Partial Data Report on State Of North Caroling have inspected the part of a pressure vessel described in this Partial Data Report on State Noblem has constructed this part in accordance with the SIMC Code Section III. accordance with the SIMC Code Section III. Editor of Province of	Identification - Certificate Holder's S/N of Part : _A3924 Nat1 Bd. NoN/A
(c) Applicable ASME Code: Section III. Edition 1974. Addends Date W75. Case No. N207 1361-2 Class 1 3. REMARKS: Standard part for use with Reactor. Androstatically tested at 1825 psj. min. (Brief description of service for which component was designed) Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPI Certificate Nolder for parts. An NPI Certification Nolder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report if the appurtenance is not included in the component Design Specification of Stress Report in Co. 2016 (RT Certificates Delder) Certificate of Authorization Expires: 6/16/92 Certification of Authorization No.: NPTN-1151 Certification of Design for Appurtenance Design information on file at GE Compony. San Jose. Cellionia Stress analysis report on file at GE Compony. San Jose. Cellionia Design specification certified by Blom Heaberg. Prof. Eng. State Celli. Reg. No. 15570 DC22A6254 Rev. 1 Stress analysis report certified by Edward Yoshio. Prof. Eng. State Celli. Reg. No. M018046 Certification of Shop Inspection 1. the understand. holding a valid commission by the National Search of Bother and Pressure Inspectors and/or the State or Province of Morth Carolina. Nave and state that to the best of special seasons and best his fartificate holder has constructed this part in accordance with the ASHC Code Section III. By signing this certificate, neither the Inspector nor his employer what any werenanty, expressed or inplied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspection or non-test wit	(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Paterson
Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ANK Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the API Cartificate Nolder for papers. An API Cartification Nolder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report are not the responsibility of the API Cartificate Nolder for papers. An API Cartification Nolder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.) Date: 03/26/82 Signed GF. NEBG. NF. & CM. OA By Cartification Stress Report in the appurtenance is not included in the component Design Specification of Stress Report on Authorization Expires: 6/18/23 Cartification of Authorization No.: NPT.N-1151 Certification of Design for Appurtenance Design information on file at GF. Company. San Jose, California Stress analysis report on file at GF. Company. San Jose, California Design specification certified by Biom Hasberg Prof. Eng. State Calif. Reg. No. 15570 DC22A6254 Rev. 1 Stress analysis report certified by Edward Yoshio Prof. Eng. State Calif. Reg. No. M018646 Certification of Shop Inspection 1, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the States or Prosince of Month Carolina have inspected them of the States of my knowledge and employed by Department of Labor of State Of North Carolina have inspected them of the State State Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property demages or a loss of any kind arising from	(b) Description of Part Inspected: Control Rod Drive , Model # 7RDB144FG005
Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ADM Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the ADM Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the ADM Code Section and Stress Report are not the responsibility of the ADM Code Section and Stress Report are not the responsibility of the ADM Code Section and Stress Report of the ADM Code of the Component Design Specification and Stress Report of the Code of the	(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ANE Code Section III. { The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report]. Date: 03/26/92 Signed GE-NEBG-NF3 CM-QA By (NFT Certificate of Authorization Expires: 6/16/93 Certification of Authorization No.: NPTN-1151 Certificate of Authorization Expires: 6/16/93 Certification of Authorization No.: NPTN-1151 Certification of Design for Appurtenance Design information on file at GE Company, San Jose, Cellifornia Stress analysis report on file at GE Company, San Jose, Cellifornia DC22A6253 Rev. 1 Design apportification certified by Biom Hasberg Prof. Eng. State Cellif. Reg. No. 15570 DC22A6254 Rev 1 Stress analysis report certified by Echward Yoshio Prof. Eng. State Cellif. Reg. No. M018646 Certification of Shop Inspection I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by December of State Report of a pressure vessel described in this Partial Data Report of and atate that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASM Code Section III. By signing this certificate, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. 3/26 1992 Quarter Province of North Carolina have concerning the part described in this inspection.	
conforms to the rules of construction of the ASK Code Section III. [The applicable Designed Specification and Stress Report are not the responsibility of the MPI Certificate Holder for parts. An MPI Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report of the appurtenance is not included in the component Design Specification and Stress Report]. Date: 03/26/92	Sheet 1 of 2
conforms to the rules of construction of the ASK Code Section III. [The applicable Designed Specification and Stress Report are not the responsibility of the MPI Certificate Holder for parts. An MPI Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report of the appurtenance is not included in the component Design Specification and Stress Report]. Date: 03/26/92	
Certificate of Authorization Expires: 8/18/23 Certification of Authorization No.: NPTN-1151 Certification of Design for Appurtenance Design information on file at GE Company. San Jose. California Stress analysis report on file at GE Company. San Jose. California DC22A8253 Rev. 1 Design specification certified by Blom Hasberg Prof. Eng. State Calif. Reg. No. 15570 DC22A6254 Rev 1 Stress analysis report certified by Edward Yoshio Prof. Eng. State Calif. Reg. No. M018646 Certification of Shop Inspection 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Caroling. And employed by Department of Labor of State of North Caroling. have inspected the part of a pressure vessel described in this Partial Data Report on 3/1/1992, and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASME Code Section [11]. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. 3/25. 1992 Quorus P	conforms to the rules of construction of the ASME Code Section III. [The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in
Design information on file at	Date: 03/28/92 Signed GE · NEBG · NF & CM · OA By C OA personative)
Design information on file at GE Company, San Jose, California Stress analysis report on file at GE Company, San Jose, California DC22A8253 Rev. 1 Design specification certified by Biom Hasberg Prof. Eng. State Calif. Reg. No. 15570 DC22A6254 Rev 1 Stress analysis report certified by Edward Yoshio Prof. Eng. State Calif. Reg. No. M018846 Certification of Shop Inspection 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina, and employed by Department of Labor of State of North Carolina, have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the MPT Certificate Holder has constructed this part in accordance with the ASM Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. 3/25 1992 Juone P	Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPTN - 1151
Stress analysis report on file at	Certification of Design for Appurtenance
DC22A6253 Rev. 1 Design specification certified by Biom Hasberg Prof. Eng. State Calif. Reg. No. 15570 DC22A6254 Rev 1 Stress analysis report certified by Faward Yashio Prof. Eng. State Calif. Reg. No. M018646 Certification of Shop Inspection 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASME Code Section [11. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. NC 1231, Ohio, WC 3686 PA	Design information on file atGE Company , San Jose , California
DC22A6253 Rev. 1 Design specification certified by Biom Hasberg Prof. Eng. State Calif. Reg. No. 15570 DC22A6254 Rev 1 Stress analysis report certified by Faward Yashio Prof. Eng. State Calif. Reg. No. M018646 Certification of Shop Inspection 1. the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASME Code Section [11. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. NC 1231, Ohio, WC 3686 PA	
Certification of Shop Inspection I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on a state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. NC 1231, Ohio, WC 3686 PA	DC22A8253 Rev. 1 Design specification certified by <u>Blorn Heabern</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina, and employed by Department of Labor of State of North Carolina, have inspected the part of a pressure vessel described in this Partial Data Report on 3/2, 1992, and state that to the best of my knowledge and belief, the RPI Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. NC 1231, Ohio, WC 3686 PA	
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina, and employed by Department of Labor of State of North Carolina, have inspected the part of a pressure vessel described in this Partial Data Report on 3/2, 1992, and state that to the best of my knowledge and belief, the RPI Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. NC 1231, Ohio, WC 3686 PA	
State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. 3/26, 1992 Prome Prome NC 1231, Ohio, WC 3686 PA	Certification of Shop Inspection
Date Inspector's Signature No. 1231, Unio, WC 3086 PA	State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 3/1, 1792, and state that to the best of my knowledge and belief, the RPI Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
	Date Inspector's Signature Wational Board, State, Province And No.

(X 3/25/05

^{*}Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 3-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ASME Code Rules, Section III, Div. I

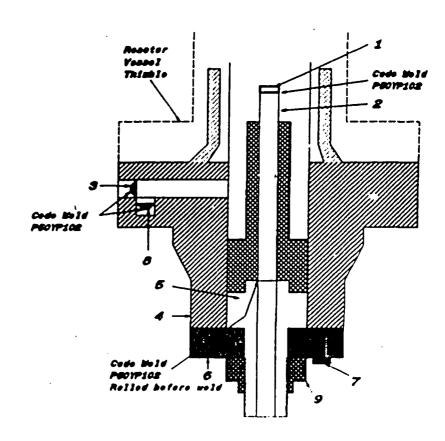
1.	Manufactured & Certified by :	General Electric Como	eny Nuclear Fu	1 & Components Manua	acturing (GENF&CM)
		2117 Castle Havne Ro	ed. Wilmington.	North Carolina 28401	

(Name and Address of MPT Cartificate Holder)

- (b) Hanufactured for : TVA Chaitanooca Tennessee \$7402-2127

 (Face and Address of F Cartificate Bulder for completed melear component)
- 2. Identification Certificate Holder's S/N of Part : A3924 Net1 Bd. No. N/A
 - (a) Constructed According to Drawing No: <u>788E534G008 Rev. 9</u> Dag. Prepared by <u>D. L. Peterson</u>
 - (b) Description of Part Inspected: ___Control Rod Drive . Model # 7RDB144FG005
 - (c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
- 3. REMAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.
 (Brief description of service for which component was designed)

- 1. Cap 16689274P001 \$A162 - F304 3/8" shick x 1 1/16" 00
- 2. Indicator Tube 16689313P001 \$A312 - TP316 3/4" sch 40 - seamless pipe 0.113" wall thickness 1.063" max. dis.
- 3. Pkg 159A1176P001 SA182 - F304 1/4" shick x 0.812" CO
- 4. Flange 9190610P001 (719E474) SA182 - F304 3.32* shick x 9 5/8* OO
- 5. Base 137C5311P001 SA182 - F304 7/8' thick x 2.875' dla.
- 6. Ring Flenge 114B5122P002, P003 137C8151P001, P002 SA182 • F304 1" thick x 5.0" OO x 1.75" ID
- 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8: Plug 175A7961P001 SA182 - F304 0.38" thick x 1,307" dia.
- 9 Not 137C5934P001 2M - 19 SA479 1 30° thick # 2 62° dia



FORM N- NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ASME Code Rules, Section III, Div. I

1. Manufactured & Certifiled by : General Electric Company Nuclear Fuel & Components (Manufacturing (GENF & CM)				
2117 Castle Havne Road, Wilmington, North Carolina, 28401				
(None and Address of HTT Cortificate Bolder)				
(Hame and Address of # Cartificate Bolder for completed puelear component)				
2. Mentification - Certificate Holder's S/N of Part :A3976Net'l Bd. NoN/A				
(a) Constructed According to Drawing No: <u>768E534G008 Ray 9</u> Dug. Prepared by <u>D. L. Paterson</u>				
(b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005				
(c) Applicable ASME Code: Section III., Edition 1974., Addenda Date W75., Case No. N207 1361-2. Class 1				
3. REMAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min. (Brief description of service for which component was designed)				
Sheet 1 of 2				
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report of the appurtenance is not included in the component Design Specification and Stress Report).				
Date: 9/14/92 Signed GE · NEBG · NF & CM - OA By Gepresentive)				
Lertificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPTN-1151				
Certification of Design for Appurtenance				
Design information on file atGE Company . San Jose . California				
Stress analysis report on file atGE Company . San Jose . California				
DC22A6253 Rev. 1 Design specification certified by <u>Blom Hamberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>				
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>				
·				
Certification of Shop Inspection				
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPI Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.				
Date Inspector's Signature National Board, State, Province And No				
Date (Inspector's Signature National Board, State, Province And No				

" Q 3(25/0)

^{*}Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

FORM N-2 NPT CERTIFICATE HOLDERS: DATA REPORTFOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ANNE Code Rules, Section III, Div. I

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1.	Newfactured & Certified by : General Electric Company Nuclear Fire! & Components Manufacturing	(GENE&CM)
	best di waxan hadiwa was	
	2117 Castle Havne Road. Wilmington. North Carolina 28401	
	of Home and Address of MTT Cortificate Helder)	•
	(b) Nasufactured for : TVA Chattanooca, Termessee 37402-2127	

		 the secretal has east	Cortificate Boldes	for completed me	lear component)
z.	Identification	older's S/S of Part		Nat'l Bd. No.	N/A

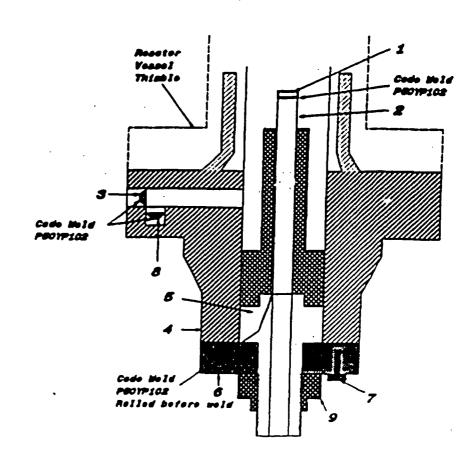
- (a) Constructed According to Brazing No: 768-534G008 Rev 9 Dag. Prepared by D. L. Poterson
- (b) Description of Part Inspectad: Control Rod Drive . Model # 7RDB144FG005
- (c) Applicable ASPE Code: Section III , Edition 1974 , Addende Date W775 , Case No. N207 1381-2 Class 1
- 3. REMAKES: Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.

 (Brief description of service for which component was designed)

Sheet 2 of Z

• • • • •

- 1. Cap 18689274P001 \$A182 - F304 3/8" Blok x 1 1/18" CO
- 2. Indicator Tube 16688313F001 8A312 - 17316 3/4' seh 40 - seamless pipe 0.113' wall thickness 1.065' max. dis.
- 3. Plug 159A1179P001 \$A182 - P304 1/4" Blick x 0.812" CO
- 4. Flange 9190610F001 (719E474) 8A182 - F304 3.37* stick x 9 E/8* OD
- 8. Base 137CS311F001 SA182 • F304 7/8" thick x 2.875" die.
- 6. Ring Flange 11485122F002, P003 137C8151F001, P002 SA182 - F304 1*thick x 5.0* OO x 1.75*1D
- 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" die.
- 9. Not 137C5934P001 XM - 19 SA479 1.30° thick x 2.62° dia.



FOR N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ASKE Code Rules, Section III, Div. I

1. Numeractured & Cent (fied by : General Electric Company Nuclear Firel & Components Manufacturing (GENF & CM)
2117 Castle Hayne Road, Wilmington, North Caroline 28401
(a) Namufactured for : TVA Chattenooga, Tennessee 37402-2127
(Name and Address of N Cortificate Melder for completed nuclear component)
2. Sentification - Certificate Holder's S/N of Part : <u>A5429</u> Nat'l Bd. No. <u>N/A</u>
Constructed According to Drawing No: 768E534G008 Ray 9 Dag. Prepared by D. L. Paterson
b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005
c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1
3. Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min. (Brist description of service for which component was designed)
Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).
Date: 03/13/92 Signed GE-NEBG-NF & CM-OA By CA Representive)
Certificate of Authorization Expires: 8/18/93 Certification of Authorization No. : NPTN-1151
Certification of Design for Appurtenance
Design information on file atGE Company San Jose California
Stress analysis report on file at
OC22A5253 Rev. 1 Design specification certified by <u>Blorn Haaberg</u> Prof. Eng. State <u>Calli.</u> Reg. No. <u>15570</u>
OC22A8254 Rev 1 Stress analysis report certified by <u>Edward Yoshlo</u> Pref. Eng. State <u>Callf.</u> Reg. No. <u>M018846</u>
Certification of Shop Inspection
I, the undersigned, holding a walid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Docarument of Labor of State of North Carolina have inspected the part of a pressure vessal described in this Partial Data Report on and state that to the best of my knowledge and belief, the MPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.
Dele Inspection. NC 1231, Ohio, WC 3686 PA Inspector's Signature Hational Board, State, Province And No.
Dece (/ Inspector's Signature Hational Board, State, Province And No.
*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

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FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ASME Code Rules, Section III, Div. I

	•	• • • • • • • • • • • • • • • • • • • •	
•	Manufactured & Contillad by a	Consul Florida Company Hydrox Cycl	& Components Manufacturing (GENF & CM)
١.	PANUTACINETE & LACETIFIED BY :		

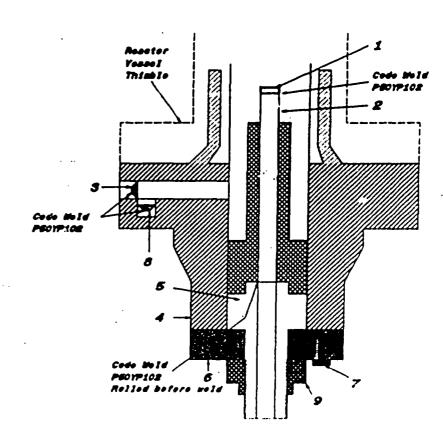
2117 Castle Havne Road. Wilminoton. North Carolina 28401 (Base and Address of EFT Castlesate Bolder)

- (b) Namefactured for : TVA Chaffancoom Tennessee 37402-2127

 (Hame and Address of B Cortificate Bolder for completed nuclear component)
- 2. Identification Certificate Holder's S/N of Part : A5429 Nat'l Bd. No. N/A
 - (a) Constructed According to Drawing No: 788E534G008 Roy 9 Dag. Prepared by D. L. Poterson
 - (b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005
 - (c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
- 3. REMAKS. Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min.

 (Brief description of service for which component was designed)

- 1. Cap 16080274P001 \$A162 - P304 3/8" shick ± 1 1/16" 00
- 2. Indicator Tube 18688313P001 8A313 - TP316 3/4' solt 40 - seamless pips 0.113' well thickness 1.083' max, dis.
- 1. Phig 188A1176P001 8A182 - F3O4 1/4' shick x 0.812' OO
- 4. Flange \$190610F001 (719E474) \$A162 - F304 3.37* Blick x \$ \$/8* OO
- 5. Base 137C5311F001 SA182 - F304 7/8' thick is 2.875' die.
- 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1" thick # 5.0" OO # 1.75" ID
- 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" die.
- 9. Not 137C5934P001 XM - 19 SA479 1,30° thick # 2,62° dia



FORM MY NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' required by the Provision of the ASKE Code Rules, Section III, Div. I

1. New Tectured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Hame and Address of BTT Cartificate Bolder)
(b) Manufactured for : TVA Chattanooga, Tennessee 37402-2127 (Home and Address of # Certificate Holder for completed nuclear component)
2. Identification - Certificate Holder's S/N of Part : _A5155 Nat'l Bd. No N/A
(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Peterson
(b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005
(c) Applicable ASHE Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1
3. REWARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. (Brief description of service for which component was designed)
Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NPT Certificate Holder for parts. An NPT Certification Holder for appurtenances is responsible for furnishing a separata Design Specification and Stress Report of the appurtenance is not included in the component Design Specification and Stress Report.).
Date: 07/29/92 Signed GE-NEBG-NF&CM-QA By SCOK Representive)
Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPT N - 1151
Certification of Design for Appurtenance
Design information on file atGE Company . San Jose . California
Stress analysis report on file atGE Company . San Jose . California
DC22A6253 Rev. 1 Design specification certified by <i>Bjorn Haaberg</i> Prof. Eng. State <i>Calif.</i> Reg. No. <u>15570</u>
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
Certification of Shop Inspection
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied,

Date | Property | NC 1231, Ohio, WC 3686 PA | National Board, State, Province And No.

connected with this inspection.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or

M-3/25105

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. As required by the Provision of the ASHE Code Rules, Section III, Div. I

1. Naturactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF&CM)

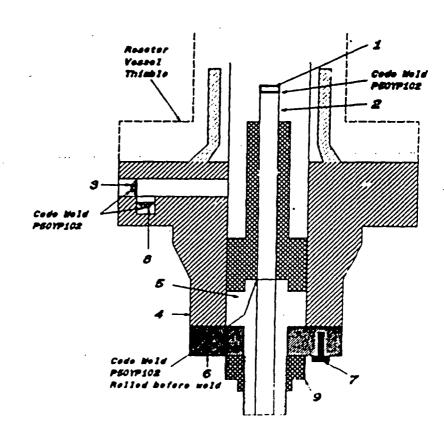
2117 Castle Havne Road, Wilmington, North Carolina 28401 (Have and Address of EFF Cartificate Bolder)

(b) Manufactured for :	TVA Chattanooca, Tennessee 37402-2127
•	(Name and Address of M Cartificate Moldar for completed mediesr component

- 2. Identification Certificate Holder's S/N of Part : A5155 Natl Bd. No. N/A
 - (a) Constructed According to Drawing No: <u>768E534G008 Rev. 9</u> Dug. Prepared by <u>D. L. Peterson</u>
 - (b) Description of Part Inspected: ______Control Rod Drive . Model # 7RDB 144FG005 ____
 - (c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
- 3. REMAKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psi, min.

 (Brief description of service for which component was designed)

- 1. Cap 16689274P001 SA182 - F304 3/W thick x 1 1/16" OD
- 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" well thickness 1.065" max. dia.
- 3. Phig 159A1176P001 SA182 - F304 1/4" thick x 0.812" OO
- 4. Flange \$190610F001 (719E474) SA182 - F304 3.37" shick x \$ 5/8" OO
- 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" die.
- 8. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1"thick ± 5.0" OO ± 1.75" ID
- 7. Cap Screw 117C4516P002 SA193 - 86 6 ea. 1/2" die. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0 38° thick x 1,307° dia.
- 9 Nut 137C5934P001 XM - 19 SA479 1 30° thick # 2.62° dia



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FOR A N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES As required by the Provision of the ASKE Code Rules, Section III, Div. I

1. Henry ctured & Certified by : General Flectric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
2117 Castle Hayne Road, Wilmington, North Carolina 28401
(b) Manufactured for : TVA Chaffanooga Tennessee 37402-2127 (See and Address of B Certificate Bolder for completed mudlear component)
2. Identification - Certificate Holder's S/N of Part : A4447 Nat'l Bd. No. N/A
(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dug. Prepared by D.L. Pelerson
Description of Part Inspected: Control Rod Drive , Model # 7RDB144FG005
(c) Applicable ASNE Code: Section III , Edition 1974 , Addenda Data W75 , Case No. N207 1381-2 Class 1
3. RDWRXS: Standard part for use with Reactor. Hydrostatically tested at 1825 psl. min. (Brief description of service for which component was designed)
· Sheet 1 of 2
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASNE Code Section III. { The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report }.
Date: 08/25/92 Signed GE-NEBG-NF & CM-OA By CC OR Representive)
Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPT N - 1151
Certification of Design for Appurtenance
Design information on file atGE Company , San Jose , California
Stress analysis report on file atGE Company . San Josa . California
DC22A8253 Rev. 1 Design specification certified by <u>Biorn Haaberry</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>
DC22A8254 Rev Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
Certification of Shop Inspection
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arizing from or connected with this inspection.
Det Inspector's Signature NC 1231, Ohio, WC 3886 PA Inspector's Signature Hattonal Board, State, Province And No.
Daté // Inspector's Signature Hational Board, State, Province And No.

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^{*}Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

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FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Frovision of the ASME Code Rules, Section III, Div. I

_		Control Florido Compositivados Frail & Compositiva Manufacturias / CENER C	4/1
1.	Manufactured & Certified by :	General Electric Company Nuclear Fuel & Components Manufacturing (GENF & C	10.1

2117 Castle Havne Road, Wilmington, North Carolina 28401

(b) Nanufactured for : TVA Chattanoogs, Tennessee 37402-2127
(Base and Address of B Cartificate Balder for completed publicar component)

2. Identification - Certificate Holder's S/N of Part : A4447 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 768E534G006 Rev 9 Dug. Prepared by D. L. Peterson

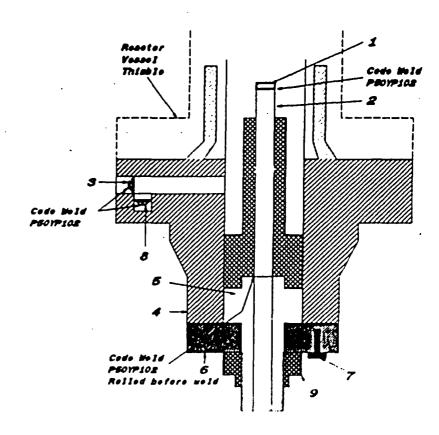
(b) Description of Part Inspected: Control Rod Drive . Model # TRDB144FG005

(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1

3. REMAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.

(Brief description of service for which component was designed)

- 1. Cap 16689274P001 \$A182 - F304 3/8" shick x 1 1/16" 00
- 2. Indicator Tube 16689313P001 SA312 - TP318 3/4' sch 40 - seamless pipe 0.113' well thickness 1.065' max. die.
- 3. Phg 159A1176P001 SA182-F304 1/4" thick x 0.812" 00
- 4. Flange 9190610P001 (719E474) \$A182 - F304 3.37" thick x 9 5/8" OO
- 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" die.
- 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1*thick x 5.0* OO x 1.75*10
- 7. Cap Screw 117C4516P002 SA193+B6 6 ea. 1/2*dia. on 4 1/8*bolt circle
- * 8. Plug 175A7961P001 SA182 + F304 0 38* thick # 1 307* dia.
- 9 Nut 137C5934P001 XM - 19 SA479 1 30" thick # 2 62" dia



FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ASHE Code Rules, Section III, Div. I

Natural Activities by : General Electric Company Nuclear Fuel & Components Manufacturing (GENE&CM).

	2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Hame and Address of NFT Cartificate Bolder)	
1	(b) Manufactured for : TVA Chambanooga Tennessee 37402-2127 (Hame and Address of B Certificate Bolder for completed nuclear component)	-
2.	. Identification - Certificate Holder's S/N of Part :	
	(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Pelerson	
	(b) Description of Part Inspected: Control Rod Drive , Model # 7RDB144FG005	
	(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1	
3.	REPURES: Standard part for use with Reactor, Hydrostatically tested at 1825 psi, min. (Exief description of service for which component was designed)	
	Sheet 1 of 2	
	We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASHE Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the MPI Certificate Holder for parts. An MPI Certification Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report). Date: O4/24/92 Signed GE-NEBG-NF & CM-OA By SC Q Representive) Certificate of Authorization Expires: 6/16/93 Certification of Authorization No.: NPT N-1151	s Ces
	Certification of Design for Appurtenance	\neg
,	Design information on file atGE Company . San Jose . California	
	Stress analysis report on file atGE Company San Jose California	-
	DC22A8253 Rev. 1 Design specification certified by <u>Bjorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>	
	DCZZASZ54 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>	
	Certification of Shop Inspection	
	I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 4/9. 292 and state that to the best of my knowledge and belief, the hPI Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or	

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

Date Inspector's Signature

W3(25/05

NC 1231, Ohio, WC 3686 PA
National Board, State, Province And No.

FORM N-2 NPT CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. As required by the Provision of the ASHE Code Rules, Section III, Div. I

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1.	Nanufactured 8	Cen	tific	by:	Ge	neral Electric Company	Nuc	lear Fuel &	Con	ponents	Manuf	acturin	<u>a_(G</u>	ENE	<u>8 C/</u>	<u>11</u>

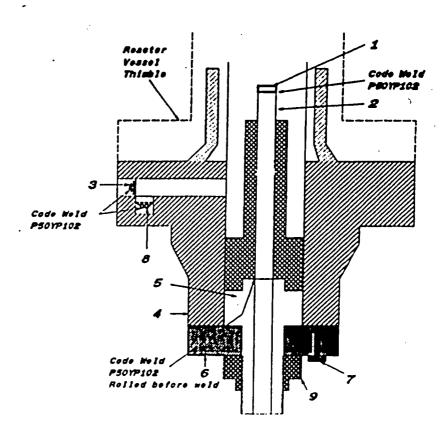
2117 Castle Havne Road, Wilmington, North Carolina 28401

- (b) Nanufactured for : TVA Chattanooga Tennessee 37402-2127

 (Same and Address of # Certificate Holder for completed nuclear component)
- 2. Identification Certificate Holder's S/N of Part : A4820 Nat'l Bd. No. N/A
 - (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dag. Prepared by D. L. Peterson
 - (b) Description of Part Inspected: <u>Control Rod Drive</u>, <u>Model # 7RDB144FG005</u>
 - (c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
- 3. REWAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.

 (Brief description of service for which component was designed)

- 1. Cap 16659274P001 SA182 - F304 3/8" shick x 1 1/18" QO
- 2. Indicator Tube 18689313P001 SA312 - TP318 3/4' solt 40 - seemiess pipe 0.113' well thickness 1.083' max. dis.
- 2. Pkg 159A1176P001 8A182 - F304 1/4" Blok x 0.812" QD
- 4. Flange 919D610P001 (719E474) 8A182 - P304 3.37* shick x 9 8/8* 00
- 5. Base 137C3311P001 SA182 - F304 7/8" thich x 2.875" da.
- 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1*shick x 5.0" OO x 1.75*10
- 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" die.
- 9. Nut 137C5934P001 XM - 19 SA479 1.30" thick x 2.62" dia



FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES As required by the Provision of the ASHE Code Rules, Section III, Div. I

_	
1.	Manufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
	2117 Castle Hayne Road, Wilminoton, North Carolina 28401 (Hame and Address of Err Cartificate Solder)
	(b) Manufactured for : TVA Chaffarooom. Termessee 37402-2127 (Hame and Address of H Cartificate Helder for completed nuclear component)
2.	Identification - Certificate Holder's S/N of Part :
	(a) Constructed According to Drawing No: <u>788E534G008 Ray 9</u> Dug. Prepared by <u>D. L. Paterson</u>
	(b) Description of Part Inspected: Control Rod Drive , Model # 7RDB144FG005
V	(c) Applicable ASME Code: Section III , Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No. <u>N207 1361-2</u> Class <u>1</u>
3.	REMAKS: <u>Standard part for use with Fleactor</u> , <u>Hydrostatically tested at 1825 psi, min.</u> (Brief description of service for which component was designed)
	Sheet 1 of 2
	We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the NFT Certificate Holder for parts. An NFT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report). Date: 06/25/92 Signed GF-NEBG-NF&CM-OA By SC OF Representive) Certificate of Authorization Expires: 6/16/93 Certification of Authorization No.: NPTN-1151
Γ-	Certification of Design for Appurtenance
	Design information on file atGE Company San Jose California
	Stress analysis report on file at
	DC22A5253 Rev. 1 Design specification certified by <u>Biorn Haaberg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>
	DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>
	Certification of Shop Inspection
	I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on State of North Carolina have inspected that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or

Inspector's Signature

connected with this inspection.

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Inspec

(17/10)

NC 1231, Ohio, WC 3686 PA
Mational Board, State, Province And No.

^{*}Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

5521,5528

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

1.	Manufactured & Certified by :	General Electric Compa	my Nuclear Fuel &	Components Ma	nufacturing (GE	NF & CM)
		•				

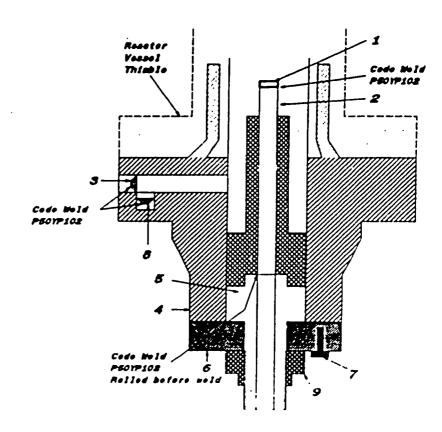
2117 Castle Havne Road, Wilmington, North Carolina 28401 (Base and Address of EFT Cartificate Bolder)

- (b) Manufactured for : TVA Challanooga, Tennessee 37402-2127

 (Face and Address of B Certificate Bolder for completed melear component)
- 2. Identification Certificate Holder's S/N of Part : A4790 NaI'l Bd. No. N/A
 - (a) Constructed According to Drawing No: 768E534G008 Rev 9 Dag. Prepared by D. L. Palarson
 - (b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005
 - (c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
- 3. REMARKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psi, min.

 (Brief description of service for which component was designed)

- 1. Cap 16689274P001 \$A182 - F304 3/8" thick x 1 1/16" OO
- 2. Indicator Tube 16689313P001 SA312 - TP318 3/4" sch 40 - seamless pipe 0.113" well thickness 1.065" max. dia.
- 3. Plug 159A1176P001 \$A182 - F304 1/4" thick tt 0.812" OO
- 4. Flange 9190610P001 (719E474) SA162 - F304 3.37* thick x 9 5/8* OO
- 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" dia.
- 6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 • F304 1"thick x 5.0" OO x 1.75" ID
- 7. Cap Screw 117C4516P002 SA193 - 86 6 ea. 1/2 dia. on 4 1/8' bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" dia:
- 9 Nut 137C5934P001 XM - 19 SA479 1 30° thick x 2 62° dia



BONG - 1190:

ORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES As required by the Provision of the ASMS Code Rules, Section III, Div. I

1. Manufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)							
2117 Castle Havne Road, Wilmington, North Carolina 28401 (Base and Address of BIT Cartificate Bolder)							
(b) Manufactured for : TVA Chattanoora, Tennessee 37402-2127							
(Name and Address of B Certificate Bolder for completed nuclear component)							
Identification - Certificate Holder's S/N of Part : Nat'l Bd. No							
(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dag. Prepared by D. L. Pelerson							
(b) Description of Part Inspected: <u>Control Rod Drive</u> , <u>Model # 7RDB144FG005</u>							
(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1							
3. REMARKS: <u>Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.</u> (Brief description of service for which component was designed)							
Sheet 1 of 2							
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the APT Certificate Holder for parts. An APT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report.).							
Cate: 08/25/92 Signed GE-NEBG-NF & CM-OA By SCOA Representive)							
Certificate of Authorization Expires: 6/18/93 Certification of Authorization No. : NPT N - 1151							
Certification of Design for Appurtenance							
Design information on file atGE Company, San Jose, California							
Stress analysis report on file atGE Company , San Jose , California							
DC2ZA6253 Rev. 1 Design specification certified by <u>Bjorn Hambara</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>							
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>							
Certification of Shop Inspection							
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.							
Date 1992 Our Portion NC 1231, Ohlo, WC 3686 PA Date Inspector's Signature National Board, State, Province And No.							

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

""" C/->125(05

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FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES.

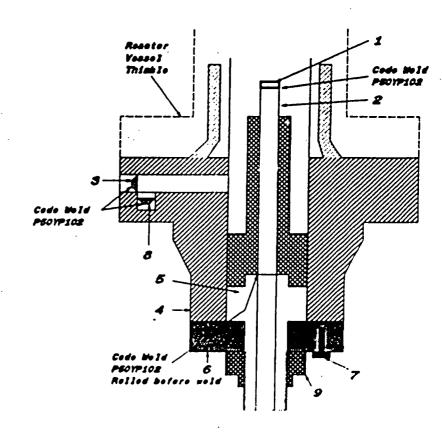
As required by the Provision of the ASHE Code Rules, Section III; Div, I

1.	Manufactured & Certified by	Genera	l Electric Compan	y Nuclear Fuel &	Components Ma	nufacturina (GENE & CM)
	a filologica de la companya de la c La companya de la co	2117	astle Hayne Road	. Wilmington, N	orth Carolina 28	401	
٠.	선명 장민이 있는 그 사람들	1 150	. (Home and Address	of MIT Caralfie	ate Bolder)		

- (b) Nemufactured for: TVA Challanooga Tennessee 37402-2127
 (Fame and Address of B Certificate Bolder for completed nuclear component)
- 2. Identification Certificate Holder's \$/# of Part : A4378 Nat'l Bd. No. N/A
 - (a) Constructed According to Drawing No: 768E534G008 Rev. 9 Dug. Prepared by D. L. Poterson
 - (b) Description of Part Inspected: Control Rod Drive , Model # 7RDB144FG005
 - (c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
- 3. REMAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.

 (Brief description of service for which component was designed)

- 1. Cap 16689274P001 \$A182 - F304 3/8" thick x 1 1/16" OO
- 2. Indicator Tube 16689313P001 8A312 - TP316 3/4° ach 40 - seamless pipe 0.113° well thickness 1.065° max. dis.
- 3. Phg 159A1176P001 8A182 • F304 1/4" shick x 0.812" 00
- 4. Flange 9190610P001 (719E474) 8A182 - F304 3.37" thick x 9 5/8" OO
- B. Base 137C5311P001 \$A182 • F304 7/8" thick x 2.875" die.
- 8. Ring Flange 11485122P002, P003 137C8151P001, P002 \$A182 • F304 1" thick x 5.0" OO x 1.75" ID
- 7. Cap Screw 117C4516P002 SA183 - 88 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 \$A182 - F304 0.38" thick x 1.307" die.
- 9. Nut 137C5934P001 XM - 19 SA479 1.30* thick = 2 62* dia



ORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES® As required by the Provision of the ASHE Code Rules, Section III, Div. I

1. Planufactured & Certified by: General Electric Company Nuclear Fuel & Components Manufacturing (GENF & 2117 Castle Havne Road, Wilmington, North Carolina 28401 (Base and Address of BTT Certificate Bolder)	CMI
(b) Manufactured for : TVA Chattanooga, Tennessee 37402-2127	
(Name and Address of N Cartificate Holder for completed nuclear component)	
Identification - Certificate Holder's S/N of Part : A3834 Natl Bd. No. N/A	
(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dwg. Prepared by D. L. Pelerson	
(b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005	
(c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class	1
3 REMARKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psi, min. (Brief description of service for which component was designed)	
Sheet 1 of	2
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the co- conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Str Report are not the responsibility of the RPT Certificate Holder for parts. An RPT Certification Holder for appurter is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included the component Design Specification and Stress Report }. Date: 03/13/92 Signed GE-NEBG-NF&CM-OA By Corresponding to the Corresponding	ress nances
Certification of Design for Appurtenance	
Design information on file atGE Company, San Jose, California	
Stress analysis report on file at <u>GE Company</u> , San Jose, California	
DC22A6253 Rev. 1 Design specification certified by <u>Blom Haaberd</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>	
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshlo</u> Prof. Eng. State <u>Calif.</u> Reg. No <u>M018646</u>	

Certification of Shop Inspection

1. the undersigned, holding a valid commission by the Mational Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.

Date | Inspector's Signature | NC 1231, Ohio, WC 3686 PA |

| Date | Inspector's Signature | Hattonal Board, State, Province And No.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and turber of sheets is recorded in Item 3. "REMARKS".

1-13/25/05

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASNE Gode Rules, Section III, Div. I

1.	Nanufactured & Certified by :	General Electric	Company Nuclea	r Fuel & Componer	nts Manufacturing	(GENE & CM)

2117 Castle Havne Road, Wilminoton, North Carolina 28401
(Same and Address of STT Cartificate Solder)

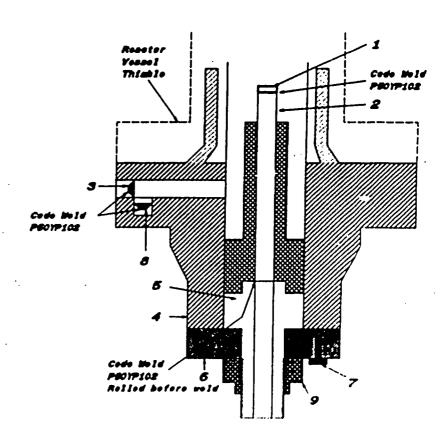
(b)	Manufactured for :	TVA Ch	itanocca, Tennes	eee 37402-2127	· :
		f Home and Addre	as of M Cartificate	Helder for semilate	d mustaer comment

- 2. Identification Certificate Holder's S/N of Part : A3834 Nat7 Bd. No. N/A
 - (a) Constructed According to Drawing No: 768E534G008 Ray 9 Dag. Prepared by D. L. Peterson
 - (b) Description of Part Inspected: Control Rod Drive , Model # 7RDB144FG005
 - (c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
- 3. REMAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min.

 (Brief description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 19689274P001 SA182 - F304 3/8" thick x 1 1/16" OD
- 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" sch 40 - seamless pipo 0.113" well thickness 1.063" max, dis.
- 3. Plug 159A1176P001 SA182 - F304 1/4" Inich x 0.812" 00
- 4. Flange \$190610F001 (719E474) \$A182 - F304 3.37* shick x \$ \$/8* OO
- 5. Base 137C5311P001 SA182 - F304 7/8' thick s 2.875' die.
- 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1" trick x 5.0" OO x 1.75" ID
- 7. Cap Screw 117C4516P002 SA193 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7981P001 SA182 - F304 0.38" thick is 1.307" die.
- 9. Nut 137C5934P001 XM - 19 SA479 1 30" thick # 2 62" dia.



FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

	Manufactured & Certified by: General Electric Company Nuclear Energy (GE-NE) (02676 3901 Castle Havne Road, Wilmington, North Carolina 28401 (Fame and Address of RTT Certificate Bolder)
	(b) Manufactured for : TVA DECATUR AL 35809-2000 (Rame and Address of E Cartificate Bolder for completed suclear component)
2.	Identification - Certificate Holder's S/R of Part : A5312 Nati Bd. No. N/A
	(a) Constructed According to Drawing No: 7685534G008 Ray 9 Dag. Prepared by D. L. Polarson
	(b) Description of Part Inspected: Control Rod Drive Model # 7RDB144FG005
	(c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1
3.	REHARKS: Sandard part for use with Reactor, Hydrostatically tested at 1825 psi min (Brief description of service for which component was designed)
	Sheet 1 of 2
	We certify that the statements in this report are correct and this vessel part or appurtanence as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the API Certificate Holder for parts. An BPI Certification holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).
	Date: 10/08/96 Signed GE-NE By Clfragett (SC OA Representive)
)	Certificate of Authorization Expires: 6/16/99 Certification of Authorization No. : NPT N - 1151
	Certification of Design for Appurtenance
	Design information on file atGE Company San Jose California
	Stress analysis report on file atGE Company , San Josa , California
·	DC22A6253 Rev. 2 Design specification certified by <u>B.N. Sridhar</u> Prof. Eng. State <u>Calli</u> Reg. No. <u>18345</u>
	Stress analysis report certified by <u>Foward Yoshio</u> Prof. Eng. State <u>Cail.</u> Reg. No. <u>MotReas</u>
	Certification of Shop Inspection
٠	I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Dopartment of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on 421.2796, and state that to the best of my knowledge and belief, the MFT Certificate Holder has constructed this part in accordance with the ASHE Code Section III. By signing this certificate, neither the Inspector nor his amployer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. 10/9, 996
Si Pi	upplemental sheets in form of lists, sketches or drawing may be used rovided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data eport is included on each sheet, and (3) each sheet is numbered and upple of sheets is recorded in Item 3 RFHARKS".

(A3/24/05

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

ı.	Natural State of Secretarian State of Secretarian State of Secretarian Secre	00267	rj
	Nanufactured & Certified by : General Electric Company Nuclear Energy (GE-NE) 3901 Castle Havne Road, Wilmington, North Carolina (Research Address of NT Carolificate Bolder)	28-01	•

(b) Manufactured for : TVA DECATUR AL 35609-2000 |

(Bame and Address of B Cartificate Bolder for completed suclear component)

2. Identification - Certificate Holder's S/N of Part : A5312 Rati Bd. No. N/A

(a) Constructed According to Drawing No: 768E534G008 Rev 9 Dag. Prepared by D.L. Palarson

(b) Description of Part Inspected: ______Control Rod Drive . Model # 7RDB144FG005____

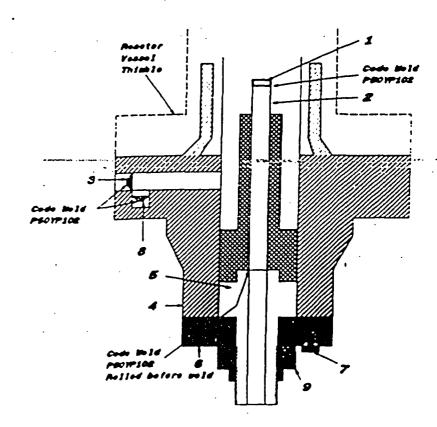
(c) Applicable ASME Code: Section III , Edition 1974 , Addende Date W75 , Case No. N207 1361-2 Class 1

3. REMARKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psi, min.

(Brief description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 18680274P001 SA182 - F318 3/8" shick x 1 1/16" CO
- 2. Indicator Tube 166B9313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" well trickness 1.065" max, die.
- 3. Phip 158A1178P001 SA182 • F304 1/4" thick ± 0.812" 00
- 4. Flange 9190610F001 (7196474) SA182 + F304 3.37* Mick x 9 5/8* 00
- 5. Been 137CS311P001 SA182 - F304 7/8' thick x 2.875' die.
 - 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1" Blok # 5.0" OD # 1.75" ID
 - 7. Cap Screw 117C4316P002 SA183 - B6 6 ea. 1/2" dia. on 4 1/8" bolt circle
 - 8. Ph.g 175A7961P001 SA182 - F304 0.38" shick z 1,307" dla.
 - 9. Mar 137C5934P001 XM - 19 SA479 1.30' thick is 2.62' die.



FORM N-2 T CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As equired by the Provision of the ASME Code Rules, Section III, Div. I

	2117 Castle Havne Road, Wilmington, North Carolina 284	21_
(b) Panufactured for : _	TVA Chattarrooms, Termessee 37402-2127	
	(Name and Address of M Cartificate Melder for completed nuclear	•
	ate Holder's S/R of Part : <u>A3877</u> Nat1 Bd. No. <u>h</u>	
) Constructed According	g to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D.L.F</u>	Peterson_
(b) Description of Part 1	Inspected: Control Rod Drive Model # 7RDB144FG005	
(c) Applicable ASME Code:	: Section III , Edition <u>1974</u> , Addenda Date <u>W75</u> , Case No.	N207 1361-2 Class 1
	or use with Reactor. Hydrostatically tested at 1825 psl. min.	
, 53.02	The second secon	
conforms to the rules of co Report are not the responsi is responsible for furnishi	ents in this report are correct and this vessel part or appurtenance instruction of the ASME Code Section III. (The applicable Designed libility of the MPT Certificate Holder for parts. An MPT Certificating a saparate Design Specification and Stress Report if the appurtation and Stress Report).	Specification and Stress on Holder for appurtenan
conforms to the rules of co Report are not the responsi is responsible for furnishi	enstruction of the ASME Code Section III. (The applicable Designed Billity of the MPT Certificate Holdor for parts. An MPT Certification and Stress Report if the appuris	e as defined in the code Specification and Stres on Holder for appurtenan enance is not included i
conforms to the rules of co Report are not the responsi is responsible for furnishi the component Design Specifi Date: 03/26/92	enstruction of the ASME Code Section III. (The applicable Designed billity of the MPT Certificate Holdon for parts. An MPT Certificating a separate Design Specification and Stress Report if the appuritication and Stress Report).	e as defined in the code Specification and Stres on Holder for appurtenan enance is not included to presentive)
conforms to the rules of co Report are not the responsi is responsible for furnishi the component Design Specif Date: 03/26/92 Certificate of Authorizatio	enstruction of the ASME Code Section III. (The applicable Designed ibility of the MPT Certificate Holder for parts. An MPT Certificating a separate Design Specification and Stress Report if the appuration and Stress Report). Signed <u>GE-NEBG-NF&CM-OA</u> (MPT Certificate Bolder)	e as defined in the code Specification and Stres on Holder for appurtenan enance is not included to presentive)
conforms to the rules of co Report are not the responsi Is responsible for furnishi the component Design Specif Date: 03/26/92 Certificate of Authorizatio	enstruction of the ASME Code Section III. (The applicable Designed Ibility of the MPT Certificate Holder for parts. An MPT Certificating a separate Design Specification and Stress Report if the appuritication and Stress Report). Signed <u>GE-NEBG-NF&CM-OA</u> (MPT Certification of Authorization No.: <u>NPT</u> on Expires: 6/16/93 Certification of Authorization No.: <u>NPT</u>	e as defined in the code Specification and Stres on Holder for appurtenan enance is not included to presentive)
conforms to the rules of co Report are not the responsi is responsible for furnishi the component Design Specif Date: 03/26/92 Certificate of Authorizatio Ce Design information on file	enstruction of the ASME Code Section III. (The applicable Designed ibility of the MPT Certificate Holder for parts. An MPT Certification in a separate Design Specification and Stress Report if the appuritication and Stress Report). Signed <u>GF-NEBG-NF&CM-OA</u> (MPT Certificate Bolder) BY BC ON Appuriting the Expires: 6/16/93 Certification of Authorization No.: NPT Destification of Design for Appurtenance	e as defined in the code Specification and Stres on Holder for appurtenan enance is not included to presentive)
conforms to the rules of co Report are not the responsi is responsible for furnishi the component Design Specifi Date: 03/26/92 Certificate of Authorizatio Ce Design information on file Stress analysis report on DC22A6253 Rev. 1	enstruction of the ASME Code Section III. (The applicable Designed ibility of the NPT Certificate Holder for parts. An NPT Certificating a separate Design Specification and Stress Report if the appuritication and Stress Report). Signed <u>GE-NEBG-NF&CM-OA</u> (HPT Certification of Authorization No. : <u>NPT</u>) entification of Design for Appurtenance at <u>GE-Company</u> , San Jose, California	e as defined in the code Specification and Stres on Holder for appurtenan enance is not included to presentive) N-1151
conforms to the rules of co Report are not the responsi is responsible for furnishi the component Design Specifi Date: <u>03/26/92</u> Certificate of Authorization Certificate of Authorizat	enstruction of the ASME Code Section III. (The applicable Designed ibility of the MPT Certificate Holder for parts. An MPT Certification as a separate Design Specification and Stress Report if the appurishment of the separation and Stress Report.) Signed <u>GE-NEBG-NF&CM-OA</u> (MPT Certification of Authorization No.: NPT extification of Design for Appurtenance at <u>GE Company. San Jose. California</u> file at <u>GE Company. San Jose. California</u>	s as defined in the code Specification and Stres on Holder for appurtenan enance is not included in presentive) N-1151

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.

Date 1992 Quara Para NC 1231, Ohio, WC 3686 PA

Inspector's Signature National Board, State, Province And No.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

(M3/25/05

高い高度、空間15 FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES® As required by the Provision of the ASKE Code Rules, Section III, Div. I

1.	Natural State of Stat
	2117 Castle Havne Road, Wilmington, North Caroline, 28401
	(None and Address of SPT Cartificate Salder)

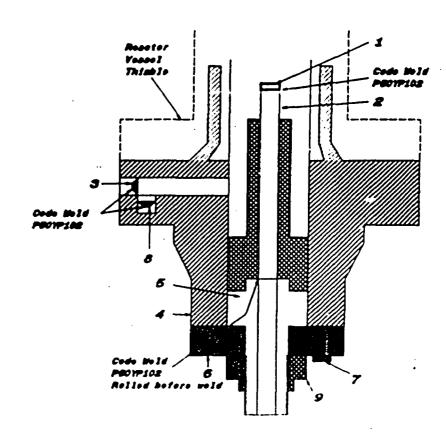
(6)	Manufactured for :	_TYA	Chett	7000a.	Tennessee Si	7402-2127		
		(June	and Address	of # Cot	Lifteste Bolde	s for comple	ted muclear empenent	

- 2. Identification Certificate Holder's S/N of Part : ASS77 Nat'l Bd. No. __N/A___
 - (a) Constructed According to Drawing No: 7685534G008 Ray 9 Dag. Prepared by D.L. Poterson
 - (b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005
 - (c) Applicable ASPE Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207.1361-2 Class 1
- 3. REWAKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psi, min.

 (Brief description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 16589274P001 \$A182 - F304 3/5" thick ± 1 1/16" CO
- 2. Indicator Tube 16629313P001 SA312 - TP316 3/1' sch do - seemises pipe 0.113' well thickness 1.063' max. dis.
- 3. Phy 158A1176P001 SA182 - F304 1/4" shick x 0.812" OD
- 4. Flange 9190610F001 (719E474) SA182 - F304 3.37 shick x 9 5/8* OO
- 5. Base 137C\$311P001 \$A182 - F304 7/8" thick x 2.875" dia.
- 6 Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1*thick # 5.0" OO # 1.75" ID
- 7. Cap Screw 117C4516P002 SA193 - B6 6 ea 1/2" dia. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" die.
- 9 Nut 137C5934P001 XM - 19 SA479 1 30' thick # 2 62' dia



.

FOR N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASME Code Rules, Section III, Div. I

1. New actured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & Co. 2117 Cestie Hayne Road, Wilmington, North Carolina 28401 (Same and Address of EFT Certificate Bolder)
Manufactured for : TVA Chattanoogs, Tennessee 37402-2127
(Name and Address of F Cortificate Helder for completed muclear component)
2 Intification - Certificate Holder's S/N of Part : _A3707 Nat'l Bd. NoN/A
Constructed According to Drawing No: 768E534G008 Rev. 9 Dug. Prepared by D. L. Pelerson
(b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005
(c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 . Case No. N207 1361-2 Class 1
3. REWAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. (Brief description of service for which component was designed)
Sheet 1 of 2
conforms to the rules of construction of the ASME Code Section III. (The applicable Dasigned Specification and Stres Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtenant is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report). Date: 11/19/92
Certification of Design for Appurtenance
Design information on file at
Stress analysis report on file atGE.Company. San Jose . California
OC22A6253 Rev. 1 Design specification certified by <u>Blorn Haaborg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>
OC22A8254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018648</u>
Certification of Shop Inspection
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on AMMIC Code Section 11.

By signing this certificate, neither the Inspector nor his amployer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.

1//9 .1992 June Politic NC 1231. Ohlo. WC 3686 PA
Date NC 1231. Ohlo. WC 3686 PA
Inspector's Signature Retional Board, State, Province And No

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

5022.1734

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES' As required by the Provision of the ANE Code Rules, Section III, Div. I

.Nanufactured & Certified by :		

2117 Castle Havne Road. Wilmhoton. North Carolina 28401.

(b) Henufactured for : TVA Chattanooca, Terrespee 37402-2127

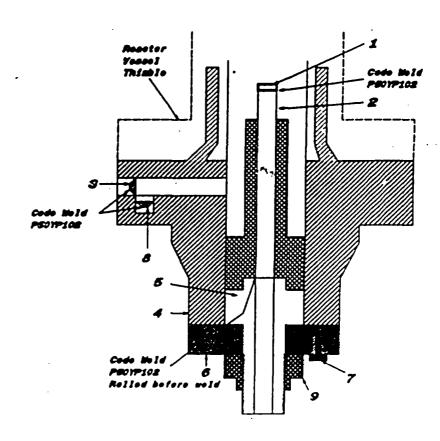
(Rame and Address of B Cartificate Bolder for completed melear component)

1. 4

- 2. Identification Certificate Holder's \$/N of Part : A5707 ____ Ner'l Bd. No. __N/A_
 - (a) Constructed According to Drawing No: 788534G008 Rev 9 Dag. Prepared by D.L. Polorson
 - (b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005
 - (c) Applicable ASME Code: Section III , Edition 1974 , Addenda Data W75 , Case No. N207 1381-2 Class 1
- 3. REWAXS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.
 (Brist description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 10000274P001 SA182 - F304 3/8 8kt x 1 1/16 00
- 2. Indicator Tube 10082313P001 3A312-TP316 3/4" sch 40 - seamless pips 0.113" well thickness 1.065° mex. die.
- 2. Plug 159A1178P001 SA182 - F304 1/4" thick x 0.812" 00
- 4. Range 9190610P001 (719E474) SA182 F304 3.37 shick x 9 6/8' 00
- 5. Base 137C5311P001 SA182-F304 7/8" thick # 2.875" die.
- 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1' thick x 5.0' 00 x 1.75' 10
- 7. Cap Screw 117C4516F002 SA193 - B6 8 ea. 1/2' die. on 4 1/8' bolt circle
- 8. Plug 175A7961P001 SA182-F304 0.38" thick x 1.307" die.
- 9. Not 137C5934P001 XM - 19 SA479 1 30° thick x 2.62° dia.



FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I 1. Mani actured & Certified by : <u>General Electric Company Nuclear Fuel & Components Manufacturing (GE NF & CM)</u> 2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Name and Address of MPT Certificate Holder) Hanufactured for : TVA Chattanooga, Tennessee 37402-2127 (Name and Address of M Certificate Holder for completed nuclear component) 2. Ide ification - Certificate Holder's S/N of Part : A5450 _ Nat'l Bd. No. ___N/A Constructed According to Drawing No: <u>768E534G008 Rev 9</u> Dwg. Prepared by <u>D. L. Peferson</u> Description of Part Inspected: <u>Control Rod Drive</u>. <u>Model # 7RDB144FG005</u> Applicable ASME Code: Section III. Edition 1974. Addenda Date W75. Case No. N207 1361-2 Class 1 iks: <u>Standard part for use with Reactor, Hydrostatically tested at 1825 psi, min.</u> (Brief description of service for which component was designed) Sheet 1 of 2 We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code

conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the MPT Certificate Holder for parts. An MPT Certification Holder for appurtenances is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report).

Date: 10/06/92

Signed GE - NEBG - NF & CM - QA (NPT Certificate Bolder)

Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPT N - 1151

Certification of Design for Appurtenance				
Design information on file at	GE Company , San Jose , California			
Stress analysis report on file at	GE Company . San Jose . California			
DC22A6253 Rev. 1 Design specification certified by	Bjorn Haaberg Prof. Eng. State Calif. Reg. No. 15570			
DC22A6254 Rev 1 Stress analysis report certified-b	y <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>			

Certification of Shop Inspection

accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection.

	o. WC 3686 P	
Date / [Inspector's Signature National Board, S	State, Provin	ice And No.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

[07/90]

FORM N-2 (back)

Ite	ms 4-8 Incl. to be co	mpleted for sir	igle wall ve	essels, jacke	ts vessels, o	r shells of heat	exchangers.	
4.	Shell: Material(Kondas	T.S.	Nominal Thickness ge SpecMed)	in. A	orrosion llowance	in. Dia f	t in. L	ength ft
5	Seams: Long		н.т		R.T.		Efficie	ncy
	Girth	·	н.т.'		R.T.		No. of (Courses
6.	Heads: (a) Material			T.S	(b) F	laterial	T.:	s
(a)	Location (Top Bottom, Ends) This	Crown kness Radius		Elliptical Ratio	Concial Apex Angle	Hemispherical Radius		Side to Press. (conv. or conc.)
(b)	If removable, bolts				Other faste	ning		
7.	Jacket Closure:	(Malen	M. Spec. No , T.S.	. Size Number J			Describe or affach sa	erch }
	Jacket Closure:					Charp	impact	ft-1b
8.	Design pressure	1250	ps	i at	575	F at ter	np of	°F
Ite	ms 9 and 10 to be comp	leted for tube	sections		-			
	Tube Sheets: Station Floatin Tubes: Material							
	ms 11 - 14 incl. to be					 		(Sir er U)
	Shell: Material (Kind & Sp. Seams: Long	ec. No.) (Mirt, of Heng	H.T.	in. Al	R.T.		Efficient	cy
				·			•	ourses
13.	Heads: (a) Material							
(a)	Location Thic Top.bottom.ends Channel							Side to Press. (conv. or conc.)
(0)	If removable, bolts u	sed (a)	(b)	(c)	Other	fastening	/Decade	Or altach startch)
	2				. •	•	ight	ft-lb
	Design pressure			si at		Fat temp		
	ns below to be complete			``				
	Safety Valve Outlets:	Number		Size .		Locatio		,
16	ROZZ Tes: Purpose (Inlet, Outlet, Orain)	Number	Disk or Size	Type	Material	Thickness	Reinforcemen Malenal	how Attached
17	Inspection Manholes, Openings: Handholes, Threaded,	No No No		Size Size	. Le	ocation		
la		Lugs	(Number)	Legs	Otl	(Describe)	Attache	d {Where & How }

R Postweld Heat Treated

 $[\]mathcal{E}_{-k,S}$ (line) interns on externs pressure with coincident temperature when applicable

BURE 1067

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I

1.	Manufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & CM)
	2117 Castle Hayne Road, Wilmington, North Carolina 28401
	(Name and Address of MPT Certificate Holder)

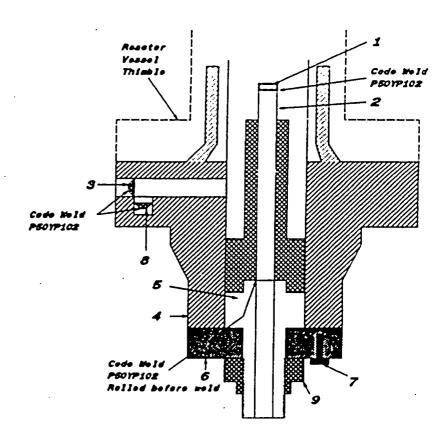
- (b) Manufactured for : TVA Chattanooga Tennessee 37402-2127

 (Hame and Address of M Certificate Bolder for completed nuclear component)
- 2. Identification Certificate Holder's S/N of Part : A5450 Natl Bd. No. N/A
 - (a) Constructed According to Drawing No: 768E534G008 Rev. 9 Dwg. Prepared by D. L. Peterson
 - (b) Description of Part Inspected: <u>Control Rod Drive</u>, Model # 7RDB144FG005
 - (c) Applicable ASME Code: Section III , Edition 1974 , Addenda Date W75 , Case No. N207 1361-2 Class 1
- 3. REMARKS: Standard part for use with Reactor, Hydrostatically tested at 1825 psl. min.

 (Brief description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 16689274P001 SA182 - F304 3/8" thick x 1 1/16" OD
- 2. Indicator Tube 16689313P001 SA312 - TP316 3/4" sch 40 - seamless pipe 0.113" well thickness 1.065" max. die.
- 3. Plug 159A1176P001 SA182-F304 1/4" thick x 0.812" OD
- 4. Flange 919D610P001 (719E474) SA182 - F304 3.37" thick x 9 5/8" OD
- 5. Base 137C5311P001 SA182 • F304 7/8" thick x 2.875" dia.
- 6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1"thick x 5.0" OD x 1.75" ID
- 7. Cap Screw 117C4516P002 SA193 - R6 6 ea. 1/2" die. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 SA182 - F304 0.38" thick x 1.307" die.
- 9. Nut 137C5934P001 XM - 19 SA479 1,30° thick x 2,62° die.



9011.SSC3

As required by the Provision of the ASHE Code Rules, Section III, Div. I Manufactured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GENF & Components Company Nuclear Fuel & Components Manufacturing (GENF & Components Company Nuclear Fuel & Components Manufacturing (GENF & Components Company Nuclear Fuel & Company Nuclear Fu	
2117 Castle Hayne Road. Wilmington. North Carolina 28401 (Name and Address of MTT Cartificate Bolder)	;
(b) Manufactured for : TVA Challenooga Tennessee 37402-2127 (Base and Address of B Certificate Bolder for completed nuclear component)	<u>.</u> .
Identification - Certificate Holder's S/N of Part: A3987 Nat'l Bd. No. N/A (a) Constructed According to Drawing No: 768E534G008 Rev. 9 Deg. Prepared by D. L. Pelerson (b) Description of Part Inspected: Control Rod Drive. Model # 7RDB144FG005 (c) Applicable ASME Code: Section III., Edition 1974., Addenda Date W75., Case No. N207.1361-2 Class 1 REMARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min. (Brief description of service for which component was designed)	
Sheet 1 of 2	
We certify that the statements in this report are correct and this vessel part or appurtenance as defined in the code conforms to the rules of construction of the ASME Code Section III. (The applicable Designed Specification and Stress Report are not the responsibility of the RPT Certificate Molder for parts. An RPT Certification Holder for appurtenance is responsible for furnishing a separate Design Specification and Stress Report if the appurtenance is not included in the component Design Specification and Stress Report). Date: 10/06/92 Signed GE-NEBG-NF&CM-OA By BC OA Representive) Certificate of Authorization Expires: 6/16/93 Certification of Authorization No. : NPTN-1151	:01

Certification of Design for Appurtenance Design information on file at _____GE Company, San Jose, California Stress analysis report on file at ___GE Company. San Jose. California Design specification certified by <u>Blorn Haabara</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u> Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018648</u>

Certification of Shop Inspection

I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damages or a loss of any kind arising from or connected with this inspection. connected with this inspection.

10/6 . 1992 June P. F. Mure NC 1231, Ohlo. WC 3686 PA

Inspector's Signature Metional Board, State, Province And No.

*Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

6022.1111

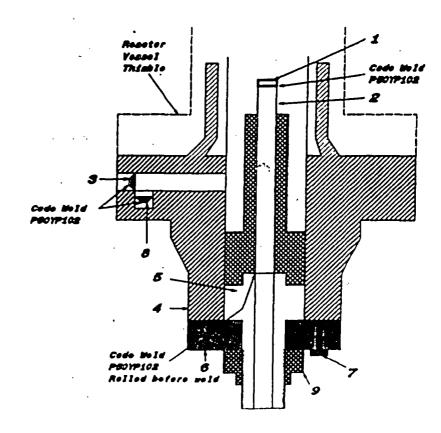
FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* As required by the Provision of the ASHE Code Rules, Section III, Div. I

1.	Natural State of the State of t	CMU
	2117 Castle Havne Road, Wilmington, North Carolina 28401	
•	A Home and Administration and the Control of the Marian and Marian	

- (b) Hanufactured for : TVA Chattanooga, Terrossee 37402-2127
 (Same and Address of R Cartificate Bolder for completed medical component)
- 2. Identification Certificate Holder's S/N of Part : A3967 Natl Bd. No. N/A
 - (a) Constructed According to Drawing No: <u>768E534G008 Ray 9</u> Dug. Prepared by <u>D. L. Peterson</u>
 - (b) Description of Part Inspected: __Control Rod Drive . Model # 7RDB144FG005_
 - (c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1
- 3. REWAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 pst. min.
 (Brief description of service for which component was designed)

Sheet 2 of 2

- 1. Cap 18680274P001 SA182 - F304 3/8" shick x 1 1/16" OD
- 2. Indicator Tube 18589313F001 SA312 - TP318 3/4" sch 40 - seamless pips 0.113" well thickness 1.085" max. dia.
- 3. Pkg 159A1176P001 SA182-F304 1/4" shick x 0.812" 00
- 4. Flange 9190610P001 (7196474) \$A162 - F304 3.37* thick x 9 5/8* CO
- 5. Base 137C5311P001 SA182 - F304 7/8" thick x 2.875" die.
- 6. Ring Flange 114B5122P002, P003 137C8151P001, P002 SA182 - F304 1' thick x 5.0' OO x 1.75' IO
- 7. Cap Screw 117C4518P002 SA193 - B6 8 et. 1/2" die. on 4 1/8" bolt circle
- 8. Plug 175A7961P001 \$A182 - F304 0.38" thick x 1.307" dis.
- 9. Nut 137C5934P001 XM - 19 SA479 1.30° thick x 2 62° dia.



FOR THE R-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES* is required by the Provision of the ASME Code Rules, Section III, Div. I

1. New Sectured & Certified by : General Electric Company Nuclear Fuel & Components Manufacturing (GE Ni	F& CMJ
2117 Castle Hayne Road, Wilmington, North Carolina 28401 (Hame and Address of E77 Cartificate Rolder)	
Nanufactured for : TVA Chattanooga, Tennessee 37402-2127	
(Hame and Address of F Cartificate Belder for completed nuclear component)	
2. dentification - Certificate Holder's S/R of Part : <u>A5038</u> Nat'l Bd. No. <u>N/A</u>	
(a) Constructed According to Drawing No: 768E534G008 Ray 9 Dag. Prepared by D. L. Palarson	
(b) Description of Part Inspected: Control Rod Drive , Model # 7RDB144FG005	
(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1381-2 Cla	22 1
3. REWARKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi, min. (Brief description of service for which component was designed)	
Sheet 1	of 2
the component Design Specification and Stress Report). Date: 03/26/92 Signed GE-NEBG-NF&CM-QA By Configuration (MFT Certificate Bolder) Certificate of Authorization Expires: 6/16/93 Certification of Authorization No.: NPTN-1151	
Certification of Design for Appurtenance	
Design information on file atGE Company , San Jose , California	
Stress analysis report on file at	
OC22A6253 Rev. 1 Design specification certified by <u>Biorn Haabarg</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>15570</u>	
DC22A6254 Rev 1 Stress analysis report certified by <u>Edward Yoshio</u> Prof. Eng. State <u>Calif.</u> Reg. No. <u>M018646</u>	
Certification of Shop Inspection	
I, the undersigned, holding a valid commission by the National Board of Boiler and Pressure Inspectors and/or the State or Province of North Carolina and employed by Department of Labor of State of North Carolina have inspected the part of a pressure vessel described in this Partial Data Report on and state that to the best of my knowledge and belief, the NPT Certificate Holder has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in the Partial Data Report. Furthermore, neither the Inspector nor his employer.	•

NC 1231, Ohio, WC 3686 PA

National Buard, State, Province And No.

Inspector's Signature

connected with this inspection

M3126105

^{*}Supplemental sheets in form of lists, sketches or drawing may be used provided (1) size is 8-1/2" x 11", (2) information in 1-2 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in Item 3. "REMARKS".

FORM N-2 NPT CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PART AND APPURTENANCES. As required by the Provision of the ASME Code Rules, Section III, Div. I

1.	Manufactured & Certified by :	Seneral Electric Company Nuclear Firel & Components Manufacturing	(GENF&CM)
	_	2117 Castle Havne Road, Wilmington, North Caroline, 28401	

2117 Castle Havne Road. Wilminoton. North Caroline 28401
(Been and Address of E77 Cartificate Bolder)

(b) Natural for : TVA Chattanooga Tennessee 37402-2127

(Name and Address of # Cortificate Holder for completed muclear component)

2. Identification - Certificate Holder's \$/N of Part : A5036 Nat'l Bd. No. N/A

(a) Constructed According to Drawing No: 768E534G008 Rev. 9 Dag. Prepared by D. L. Paterson

(b) Description of Part Inspected: Control Rod Drive . Model # 7RDB144FG005

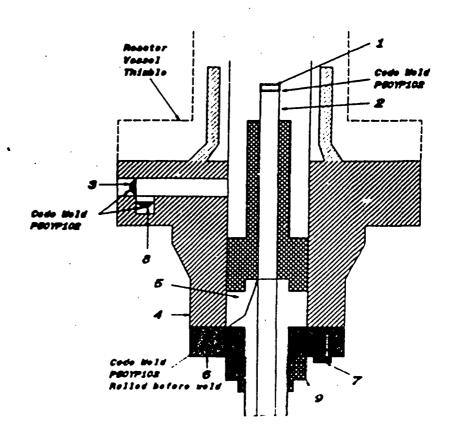
(c) Applicable ASME Code: Section III . Edition 1974 . Addenda Date W75 . Case No. N207 1361-2 Class 1

3. REMAKS: Standard part for use with Reactor. Hydrostatically tested at 1825 psi. min.

(Brief description of pervise for which component was designed)

Sheet 2 of 2

- 1. Cap 18689274P001 \$A182 - F304 3/8" shick x 1 1/16" OD
- 2. Indicator Tube 18680313P001 8A312 - TP318 3/4' sch 40 - seamises pipe 0,113' well thickness 1,053' max. dis.
- 3. Phg 159A1176P001 SA182 - F304 1/4" thick x 0.812" 00
- 4. Flange 9190610P001 (719E474) SA152 - F304 3.37 Blick x 9 5/8* OO
- 5. Base 137C5311F001 SA182 - F304 7/8' thick is 2.875' die.
- 6. Ring Flange 11485122P002, P003 137C8151P001, P002 SA182 - F304 1' thick x 5.0' OO x 1.75' ID
- 7, Cap Screw 117C4516P002 SA193 - B6 6 ee. 1/2" die. on 4 1/8" bolt circle
- 8 Piug 175A7961P001 SA182 - F304 0.38* thick x 1.307* dia.
- 9 Nut 137C5934P001 XM - 19 SA479 1 30°thick = 2 62° die



FORM NIS-2 OWNER'S REPORT FOR REPAIR/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

1.	Owner Tennessee	Valley Authority (TVA)			Date	June 9, 2005	2		
	1101 Mark	Name et Street		-	_				
•		ja, TN 37402-2801	· ·	T	Sheet	1 of	4		
•	Onattanoog	Address		· ·	Oncer _		•		
2.	Plant - Browns Fe	rry Nuclear Plant (BFN	السنت (Unit _	2	- ,* ;	<u> </u>	· .
	P. O. Box 2	Name 2000, Decatur, AL 356	609-2000	· · · · · · · · · · · · · · · · · · ·				00 through 04-71	
	- *****	Address				Repair/Replacement	Organizatio	P.O No. Job No., e	1c
3.	Work Performed by		<u></u>		Type Co	de Symbol Stam	p <u>N</u>	Α	·
	P. O. Box 2	Name 2000, Decatur, AL 356	609-2000 ·		Authoriza	ation No. N/A	١		
		Address		-	Expiratio	n Date N/A	• • •		
									
4.	Identification of System	n - System 001, Main	Steam System _ (A	SME Code C	class 1 and	2 equivalent)			
5. (a	·	of Section XI Utilized for		19 67	Edition	n, N/A		da, <u>N/A</u> C	Code Case
6.	Identification of Compo	onents	enne e e e e e			<u></u>			
	Name of	Name of	Manufacturer	National Board		Other	Year .	Corrected, Removed, or	ASME Code Stamped (Yes
•	Component · ·	Manufacturer	Serial No.	_No	Iden	tification	Built	Installed	or No)
•	pport (Snubber) 7B2401-30	Pacific Scientific	475	N/A	2-SNU	3-001-5025	NA	Removed	No
•	port (Snubber) 7B2401-30	Pacific Scientific	6550	N/A	2-SNU	3-001-5025	1980	Installed	Yes
	pport (Snubber) 7B400S0201	Pacific Scientific	479	N/A	2-SNU	3-001-5043	NA	Removed	No
	port (Snubber) 7B400S0201	Pacific Scientific	6549	N/A	2-SNU	3-001-5043	1980	Installed	Yes
	port (Snubber) 7B400S0201	Pacific Scientific	503	NA	2-SNU	3-001-5042	NA	Removed	No
	port (Snubber) 7B400S0201	Pacific Scientific	6548	N/A	2-SNUE	3-001-5042	1980	Installed	Yes
7.	Description of Work	Replaced snubbers w	ith new snubbers.	elekti,	· .		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		

NOTE: Supplemental Sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. X 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

^{*}as amended by additional quality assurance requirements found in Contract 68C37-91602 and Design Criteria BFN-50-7001 and BFN-50-C-7105.

FORM NIS-2 (Back)

CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp NA Certificate of Authorization No. NA Signed System Engineer Date NA Signed System Engineer Date NA Signed System Engineer Date NB System Engineer Date NB State or Province of Tennessee and employed by HSB CT of Province of Tennessee And employed by HSB CT of the Nave inspector and the State in the best of my knowledge and belief, the Owner's Report during the period 2.1/1/9.5 to 1/15/2. and state that to the best of my knowledge and belief, the Owner has phorhoad examinations and taked corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By significant to expect the components described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. Examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspection ror his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions N. 4.1/15 2.0.2.	9.	Remarks The existing snubbers were removed and discarded. New snubbers were functionally tested per 2-SI-4.6.H-2A and installed. Applicable Manufacturer's Data Records to be attached
CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed System Engineer Date 2005 Certificate of Authorization No. IVA Expiration Date N/A Signed System Engineer Date 0.2005 Certificate of Authorization No. IVA Expiration Date N/A Signed System Engineer Date 0.2005 Certificate of Authorization No. IVA Expiration Date N/A I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by have inspected the components described in this Owner's Report during the period 2.2.1/4.0.5 to 6.1.5.1.5.1.2. and state that to the best of my knowledge and belief, the Owner has performed examinations and attach corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspection or his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions National Board, State, Province, and Endorsements National Board, State, Province, and Endorsements		Applicable Manufacturer's Data reports to be attached
CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed System Engineer Date 2005 Certificate of Authorization No. IVA Expiration Date N/A Signed System Engineer Date 0.2005 Certificate of Authorization No. IVA Expiration Date N/A Signed System Engineer Date 0.2005 Certificate of Authorization No. IVA Expiration Date N/A I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by have inspected the components described in this Owner's Report during the period 2.2.1/4.0.5 to 6.1.5.1.5.1.2. and state that to the best of my knowledge and belief, the Owner has performed examinations and attach corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspection or his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions National Board, State, Province, and Endorsements National Board, State, Province, and Endorsements	•	
CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed System Engineer Date 2005 Certificate of Authorization No. IVA Expiration Date N/A Signed System Engineer Date 0.2005 Certificate of Authorization No. IVA Expiration Date N/A Signed System Engineer Date 0.2005 Certificate of Authorization No. IVA Expiration Date N/A I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by have inspected the components described in this Owner's Report during the period 2.2.1/4.0.5 to 6.1.5.1.5.1.2. and state that to the best of my knowledge and belief, the Owner has performed examinations and attach corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspection or his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions National Board, State, Province, and Endorsements National Board, State, Province, and Endorsements	•	
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Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Signed Light Light System Engineer Date N/A Certificate of Authorization No. N/A Signed Light Light System Engineer Date N/A Certificate of Authorization No. N/A Signed Light Light System Engineer Date N/A Certificate of Authorization No. N/A Signed Light Light System Engineer Date N/A Certificate of Authorization No. N/A Certificate of Authorization No. N/A Signed Light System Engineer Date N/A Certificate of Authorization No. N/A Certificate of Authorization No. N/A Certificate of Authorization No. N/A Expiration Date N/A Certificate of Authorization No. N/A Certificate of Authorization No. N/A Certificate of Authorization No. N/A Certificate of Authorization Date N/A Light System Engineer Date N/A Certificate of Authorization Date N/A Light System Engineer Date N/A Expiration Date N/A Light System Engineer		
Certificate of Authorization No. NA Expiration Date N/A Signed Connecticut System Engineer Date Co		CERTIFICATE OF COMPLIANCE
Certificate of Authorization No. NA Expiration Date N/A Signed Connecticut System Engineer Date Co		A COURT OF THE STATE OF THE STA
CERTIFICATE OF INSERVICE INSPECTION 1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Tennessee and employed by HSB CT of Asve inspected the components described in this Owner's Report during the period 2-/14/05 to 6/15/05 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions TW40// National Board, State, Province, and Endorsements		I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
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Signed System Engineer Date Certificate OF Inservice Inspection I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB CT of Connecticut have inspected the components described in this Owner's Report during the period 2 / 14 / 5 to 6 / 15 / 6 cm and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions TN 4011 National Board, State, Province, and Endorsements		
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CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB CT of have inspected the components described in this Owner's Report during the period 2-/14/05 to 6-/15/05 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. National Board, State, Province, and Endorsements		
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examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions TW 40// National Board, State, Province, and Endorsements		Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector por his employer makes any warranty expressed or implied, concerning the
Commissions TN 4011 Inspector's Signature Commissions IN 4011 National Board, State, Province, and Endorsements		examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in
	:	any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
		to the contract of the contrac
		Vil III
		Inspector's Signature National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY SUPPLEMENTAL SHEET

1.	Owner <u>Tennessee</u>	Valley Authority (TVA)	.:	-	Date : June 9, 2005			
	1101 Marke	et Street Name	Ser a calle	_			•	
	Chattanooo	a. TN 37402-2801		_	Sheet _2 of _	4 .	·	
2.	Plant Browns Fer	rv Nuclear Plant (BFN)	<u> M. J. J. </u>	<u>.</u>	Unit 2			
	P. O. Box 2	Name 2000 Decatur AL 356	09-2000	_	Work Orders (WO) 04-7	18533-00	X) through 04-718	3533-019
3.	Work Performed by _	TVA-BFN Address		_	Type Code Symbol Stam		A	
,	P. O. Box 2	Name 2000 Decatur AL 356	09-2000		Authorization No. N/A		· · · · · · · · · · · · · · · · · ·	
		Address			Expiration DateN/A_			<u> </u>
4.	Identification of System			-	Class 1 and 2 equivalent)		·	
_ ,	· · · · · · · · · · · · · · · · · · ·	•	•	•	dition, Summer 1977 Addend		ala NIA C	
-	a)Applicable Constr.b) Applicable Edition	of Section XI Utilized for	ys) USAS B31.1.0 Repairs or Replace		7 Edition, WA	- Adden	da, <u>NA</u> C	ode Case
6.	Identification of Compo		·				• • •	
Γ	e, we	· · ·						ASME
				National			Corrected.	Code Stamped
	Name of	Name of	Manufacturer	Board	Other	Year	Removed, or	(Yes
	Component	Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)
	oport (Snubber) 78400S0116	Pacific Scientific	426	N/A	2-SNUB-001-5045	N /A .	_Removed	No
	pport (Snubber)	Pacific Scientific	6497	N/A	2-SNUB-001-5045	1979	Installed "	Yes
	7B400S0116	Desite Colonitie	404	AVA	2-SNUB-001-5001	24/0	Domend	N.
	pport (Snubber) 7B2401-2	Pacific Scientific	421	N/A	2-5NUB-001-5001	N/A	Removed	No
	pport (Snubber) 7B2401-2	Pacific Scientific	6825	N/A	2-SNUB-001-5001	1980	Installed	Yes
	pport (Snubber) 7B2401-2	Pacific Scientific	397	N/A	2-SNUB-001-5002	N/A	Removed	No
	oport (Snubber) 7B2401-2	Pacific Scientific	10498	N/A	2-SNUB-001-5002	1981	Installed	Yes
	oport (Snubber) 7B2401-3	Pacific Scientific	414	N/A	2-SNUB-001-5003	N/A ··	Removed	No
	oport (Snubber) 7B2401-3	Pacific Scientific	6469	N/A	2-SNUB-001-5003	1979	Installed	Yes
	oport (Snubber) 7B2401-3	Pacific Scientific	109	NA.	2-SNUB-001-5004	N/A	Removed	No .
Sur 2-4	oport (Snubber) 782401-3	Pacific Scientific	7260	N/A	2-SNUB-001-5004	1980	Installed	Yes
	oport (Snubber) 7B2401-6	Pacific Scientific	400	N/A	2-SNUB-001-5005	N/A	Removed	No
	oport (Snubber) 7B2401-6	Pacific Scientific	7274	NA	2-SNUB-001-5005	1980	Installed	Yes
		<u> </u>	· 		<u> </u>			
7.	Description of Work	Replaced snubbers wi	th new snubbers.					
8.	•		neumatic	Nominal (Operating Pressure	Exempt		
				: _	•			7
		Other 🛛 ** Press	sure <u>N/A</u> ps		st Temp. N/A °F	_	** - See F	remarks

FORM NIS-2, SUPPLEMENTAL SHEET (Back)

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FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY SUPPLEMENTAL SHEET

1.	Owner Tennessee			_	DateJune 9, 2005			
	1101 Marke	t Street Name	·- <u>-</u>	_				
	Chattanoog	a TN 37402-2801	<u> </u>		Sheet 3 of	4		
2.	Plant Browns Fer	Address rv Nuclear Plant (BFN)	1	_	Unit 2	·		
		Name 000 Decatur, AL 356		=	Work Orders (WO) 04-7	18533-00	00 through 04-71	8533-019
3.	Work Performed by	Address		-	Receir/Reclacement C Type Code Symbol Stamp	Organization N/	P.O. No., Job No., e	lc.
	· · · · · · · · · · · · · · · · · · ·	Name 000 Decatur AL 356	09-2000	<u>.</u> ` .	Authorization No. N/A	_	e in the Alexandry	
	e er u una		****	-	Expiration Date N/A			
4.	Identification of System	nSystem 001 Main	Steam System (A	SME Code	Class 1 and 2 equivalent)			
		(snubber) ASME Section III,	NF, 1977 E	dition, Summer 1977 Addenda	i .		
5. (a) Applicable Constru	ction Code (piping s	ys) USAS B31.1.0	19 6	7 Edition, ··· N/A	Adden	da, N/AC	ode Case
(b) Applicable Edition of	of Section XI Utilized for	Repairs or Replace	ments 19	95, 1996 Addenda	-		
6.	Identification of Compo	onents	·- ·					, <u> </u>
	** ** ** ** ** .							ASME Code
				National	· ••		Corrected.	Stamped
	Name of	Name of	Manufacturer	Board ·	Other	-Year	Removed, or	. (Yes
	Component	Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)
	port (Snubber)	Pacific Scientific	110	N/A	2-SNUB-001-5006	NA	Removed	No 1
	7B2401-6			* * * * *				
	pport (Snubber)	Pacific Scientific	7261	NA	2-SNUB-001-5006	. 1980	Installed	Yes
Sug	pport (Snubber)	Pacific Scientific	403	N/A	2-SNUB-001-5007	N/A	Removed	No
	7B2401-9	e se serve e se			***		7.	
	pport (Snubber)7B2401-9	Pacific Scientific	5501	NA	2-SNUB-001-5007	1979	Installed	Yes
	pport (Snubber) · · · · · · · · · · · · · · · · · · ·	Pacific Scientific	401	." N/A :	2-SNUB-001-5008	N/A	Removed	. No
	oport (Snubber) 7B2401-9	Pacific Scientific	7271	N/A	2-SNUB-001-5008	1980	Installed	Yes
	oport (Snubber) 7B2401-10	Pacific Scientific	409	N/A	2-SNUB-001-5009	N/A	Removed	No
•	pport (Snubber) 7B2401-10	Pacific Scientific	6516	N/A	2-SNUB-001-5009	1979	Installed	Yes
	pport (Snubber) 7B2401-10	Pacific Scientific	405	N/A	2-SNUB-001-5010	N/A	Removed	No
	pport (Snubber) 7B2401-10	Pacific Scientific	5513	N/A	2-SNUB-001-5010	1979	Installed	Yes
•	pport (Snubber) - 7B2401-13	Pacific Scientific	404	N⁄A	2-SNUB-001-5011	N⁄Α	Removed	No
	pport (Snubber) 7B2401-13	Pacific Scientific	10479	N/A	2-SNUB-001-5011	1981	Installed	Yes
7.	Description of Work	Replaced snubbers wi	th new snubbers.					
8.	Tests Conducted: H	lydrostatic P	neumatic	Nominal	Operating Pressure	Exempt		
	c	Other 🔯 ** Press	sure <u>N/A</u> ps	i Te	st Temp. N/A °F		** - See I	Remarks

FORM NIS-2, SUPPLEMENTAL SHEET (Back)

Remarks The existing sn	ubbers were removed an	d discarded. New s	nubbers were	function	ally tested	per 2-SI-4.6	H-2A and in	nstalled.	
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<u>.</u>				*** * 3.					

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY SUPPLEMENTAL SHEET

1. Owner <u>Tennessee</u>		· -	_	Date June 9, 2005
1101 Marke	t Street Name	<u>, </u>	_	
Chattanoog	a.TN 37402-2801			Sheet 4 of 4
2. Plant Browns Fer	Address rv Nuclear Plant (BFN)		<u>.</u>	Unit _2
P.O. Box 2	Name 000, Decatur, AL 356	09-2000		Work Orders (WO) 04-718533-000 through 04-718533-019
3. Work Performed by	Aridress		-	Repair/Replacement Organization P.O. No., Job No., etc., Type Code Symbol Stamp N/A
	Name	09-2000		Authorization No. N/A
	Address	09-2000	- , : .,	Expiration Date N/A
4. Identification of System	System 001 Main	Steam System (A	SMF Code	Class 1 and 2 equivalent)
• •	(snubber) ASME Section III.	NF. 1977 E	dition, Summer 1977 Addenda
5. (a) Applicable Constru	•	/s) USAS B31.1.0		7 * Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition	of Section XI Utilized for	Repairs or Replace	ments 19	95, 1996 Addenda
6. Identification of Compo	nents			and the same of th
				ASME
			National	Code Corrected, Stamper
Name of	Name of	Manufacturer	Board	Other Year Removed, or (Yes
Component	Manufacturer	Serial No.	No.	Built Installed or No
Support (Snubber) 2-47B2401-13	Pacific Scientific	417	N/A _	2-SNUB-001-5012 N/A Removed No
Support (Snubber) 2-47B2401-13	Pacific Scientific	6496	N/A	2-SNUB-001-5012 1979 Installed Yes
Support (Snubber) 2-47B2401-14	Pacific Scientific	411	N/A	2-SNUB-001-5013 N/A Removed No
Support (Snubber) - 2-47B2401-14	Pacific Scientific	5515	N/A	2-SNUB-001-5013 1979 Installed Yes
Support (Snubber) 2-47B2401-14	Pacific Scientific	418	N/A	2-SNUB-001-5014 "N/A" Removed No
Support (Snubber) 2-47B2401-14	Pacific Scientific .	7279	N/A	2-SNUB-001-5014 1980 Installed Yes
Support (Snubber) 2-4782401-17	Pacific Scientific	412	N/A	2-SNUB-001-5015 N/A Removed No
Support (Snubber) 2-47B2401-17	Pacific Scientific	6537	N/A	2-SNUB-001-5015 1980 Installed Yes
Support (Snubber) 2-47B2401-17	Pacific Scientific	415	N/A	2-SNUB-001-5016 N/A Removed No
Support (Snubber) 2-47B2401-17	Pacific Scientific	6517	N/A	2-SNUB-001-5016 1981 Installed Yes
7. Description of Work	Replaced snubbers wi	th new snubbers.		
8. Tests Conducted: H	fydrostatic 🔲 F	Pneumatic	Nominal	Operating Pressure
·	Other 🛛 ** Pres	sure <u>N/A</u> ps	i Te	st Temp. NA °F ** - See Remarks

FORM NIS-2, SUPPLEMENTAL SHEET (Back)

Remarks The existing snubbers were removed and discarded. New snubbers were functionally tested per 2-SI-4.6.H-2A and installed	•		• *	2000 through 04-718533-019	arded New enumbers we	are functionally tested per 2-51-4.6 k	4-2A and installed
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	have just pected the company of Supports described in this Date	10 Report on
	19 80 and state that to the best of my knowledge and belief the total Cortificate Menter has comparable that ASME Code for Nuclear Power Plant Components	pructed these component supports in accordance
	By signing this corollicate, neither the Inspector nor his amploye: makes any nerranty, and supports described in this Dara Report. Furthermore, neither the Inspector nor his ampersonal injury or preperty demage or a loss of any kind arising from or connected	oployer shall be liable in any manner for an
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FORM NF-1 (Back)

	CERTIFICATE OF SHOP INSPECTION
	I, the undersigned, holding a valid commission issued by the Rational Board of Boiler and Pressure Vestal Impactors and the State Province of RPV YORK and employed by RSRISI CO of HATTFOND CT. Down inspected the component supports directiond in this Data Report on 12/20
٠	By syring this consticute, no the Impoctor nor his simployer makes any warranty, expressed or implied, concurring the componer supports described in this Data Report. Furthermore, neither the Inspector nor his employer shall be hable in any manner for an personal injury or property damage or a loss of any lund arrang from or connected with this inspection. Dere 1420/19 Speed William J. May Commission 1.4. Commission #2710 [Not 184. Store Prov., and No.)
4	CERTIFICATION OF FIELD AISPECTION
^	I, the underspred Hong a valid commission record by the National Board of Boller and Freezie Vessel Impectors and the State or
M	Province of
7	that the parts referred to as data dems
œ	ance with the ASME Code for Nuclear Power Plant Compenents
0	By signing this car's ficase norther the Inspector nor his employer makes any warranty, expressed or implied, concerning the component success are the first
0	theory or presently demager or a loss of any bind arround from or connected with this inspection
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FORM NE'S NET CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS. As Required by the Provisions of the ASME Code Rules, Section III, Division 1

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By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component

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FORM NF-1 (Back)

	CERTIFICATE OF SHOP INSPECTION
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Bupport: persona	ng this contribute, neither the Inspector nor his propherer makes any worranty, expressed or implied, concurring the component a described in this Data Report. Furthermore, neither the Inspector nor his employer shall be Eable in any manner for any I injury or property damage or a loss of any kind prising from or connected with this inspection.
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CERTIFICATE OF SHOP INSPECTION 1. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State L. Province of California and employed by HSBIGI CO. of Hartford, CT have Inspected the component supports described in this Data Report of the Part Inspector and belief the NPT Certificate Holder has constructed the employers with the ASME Code for Nuclear Power Plant Components. By signing this certificate, meither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component supports described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any macriner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date 4/26/80 Signed Commissions Cartificate. Prov., and No. 1 CERTIFICATION OF FIELD INSPECTION 1. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspector and the State or

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Sheet 11

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I, the undersigned, holding a valid commission issued by the National Board of Borler and Pressure Vessel Inspectors and preSignal Province of New York and employed by HSBT&T Co. of Partford CT
have inspected the component supports described in this Data Report on
19 If and state that to the best of my knowledge and belief the NPT Certificate Holder has constructed these component supports in accordance with the ASME Codo for Nuclear Power Plant Components.
with the MSMC Coop for its clear rower risks Composition.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component
supports described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any
personal injury or property damage or a loss of any kind arising from or connected with this inspection
12/20/76
Date 12/20/17
Signed William S. Muye Commissions N. 4. Commission \$2770
(Net 18d , State Prov. and No.)
CERTIFICATION OF FIELD INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or
Province of of of
have compared the statements in this Data Report with the described component supports and state
that the parts referred to as data items, not included in the certificate of shop inspection. have been
inspected by me and that to the Dest of my knowledge and belief the NPT Certificate Holder has constructed these component supports in according
ance with the ASME Code for Nuclear Power Plant Components
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the component
supports described in this Data Report. Furthermore, neither the inspector for his employer shall be liable in any manner for any personal
supports described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or properly damage or a loss of any kind arising from or connected with this inspection.

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	Commissions
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	Chatte	nooga, TN 37402-2801 Address		-	Street 1 of		·	
2.	Plant Brown	s Ferry Nuclear Plant (BFI	N)		Unit 2			
	P. O.	Box 2000, Decatur, AL 35	5609-2000	-	Work Orders (WO) 04	1-718528-0	00 .	
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4.	Identification of S	ystem System 003, Fee	edwater System (AS	SME Code C	lass 1 equivalent)			
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5. ((a) Applicable Co	onstruction Code (piping	system) USAS B31.1	1.0 19	67 * Edition, N/A	Adder	nda, NA	Code Case
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^{*}as amended by additional quality assurance requirements found in Contract 68C37-91602 and Design Criteria BFN-50-7003 and BFN-50-C-7105.

9. Remarks <u>WO 04-718528-000 - (2-SNUB-003-</u>	oplicable Manufacturer's Data Reports to be attached
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	CERTIFICATE OF COMPLIANCE
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	And the second s
Type Code Symbol Stamp N/A	William Date N/A
Signed , State of Authorization No. N/A Signed , State of Authorization No. N/A Owner or Owner's Destance. 1	System Engineer Date Le-9 2005
CER	TIFICATE OF INSERVICE INSPECTION
or Province of Tennessee	issued by the National Board of Boiler and Pressure Vessel Inspectors and the State and employed by HSB CT of
in this Owner's Report during the period	have inspected the components described and state that
to the best of my knowledge and belief, the Owner hat Report in accordance with the requirements of the AB By signing this certificate neither the Inspector examinations and corrective measures described in the second sec	as performed examinations and taken corrective measures described in this Owner's
Land Havel	Commissions TN 4011
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March 21, 1980

Pacific Scientific

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1.	Owner	Tennessee	Valley Authority (TVA)			Date	June 14,	2005 .		
	!	1101 Mark	et Street		-					·
-		Chattanooc	ga, TN 37402-2801		_	Sheet	1	of 1		
-	Address				-			· , · · · · · · · · · · · · · · · · · ·	·····	,
2.	Plant	Browns Fe	rry Nuclear Plant (BFN))	. · . <u>-</u>	· Unit	2	·	-	
	•		Name	· · · · · · ·				03-022883-00		
-		P. O. Box 2	2000 Decatur, AL 356 Address	609-2000	-	Engine	ering Docum Recair/Reciad	nent Changes (EDC) 60410 a P.O No., Job No	nd 63374 etc.
3.	Work Pe	rformed by	TVA-BFN	•	, · · · · ·	Туре С	ode Symbol	Stamp N/	4	
	. ,	P. O. Box 2	Name 2000, Decatur, AL 356	509-2000	-	Authori	zation No.	NA		
			Address		_	Expirat	ion Date	N/A		
	1.4	£1 O 1	- Oustan 040 Baile	- Danis a and Manta	and Discussion	(DD9\/9	BD\ 0	/ASME Onde	Olean Oleania	-11
4.	Identifica	ition of Syster	m System U10, Boile	r Drains and Vents	and Blowdo	MD (BD&V&	(BD) System	(ASME Code	Class 2 equiv	alent)
- 4				24.4.0	67 t Edi	:a:	N/A	6	AVA	Ondo Onno
5. (a	а) Арріі	cable Constr	uction Code USAS B	31.1.0 19	67 Ed	ition,	N/A	Addenda,	- N/A	Code Case
(t	o) Appli	cable Edition	of Section XI Utilized for	Repairs or Replace	ements 19	95 Edition,	1996 Adde	nda		
				٠.		•				
6.	Identifica	ition of Comp	onents	۰ ۱۰ استان			,	•	••••	
			 			<u> </u>				
]`		[]	•	 		ASME Code
	Nam	a of	Name of	Manufacturer	National Board]	Other ·	Year	Corrected, Removed, or	Stamped (Yes
	Compo		Manufacturer	Serial No.	No.	Ide	entification	Built	Installed	or No)
DP\	/ Head Ve	ent to	Handcock	unknown	N/A	2-VT	V-010-0502	N/A	Removed	No
	n Steam		riandcock ,	unklowii					Ticinoved	.,,
	/ Head Ve n Steam	nt to	Flowserve 1-2V-906	38AYH	N/A	2-VT	V-010-0502	2004	Installed	No
pipir	ng	-, -	unknown	N/A	· N/A ·		N/A	N/A	Removed	No
pipir	ng		Consolidated Power Supply	N/A	N/A	7. 1	NA		Installed	No
	. 			N. 20 Jan. 1867				:	· · · · · · · ·	
		.,					•			
7.	Descript	ion of Work	Replaced valve and so	me associated pipir	ng.	·		<u>.</u>		
	•	- 		· •• ·				• • • • •		
8.	Tests Co	onducted: I	Hydrostatic P	neumatic	Nominal	Operating F	ressure 🗵	** Exempt		
		(Other Press	sure N/A ps	i Te	st Temp.	N/A	°F **-re	f. Code Case f	N-416-2
			· 	 '		• ,				

^{*}as amended by additional quality assurance requirements found in Design Criteria BFN-50-7010 and BFN-50-C-7105.

WID: Work Orders (WO) 03-022883-000 and 03-022883-002

9.	Remarks Replaced va	lve and some associated piping]. ble Manufacturer's Data Reports to be attached	
		Addicad	DIE MANUACUTETS DATA MEDORS TO DE ATTACNED	.c.,
		•		•

		CER	RTIFICATE OF COMPLIANCE	
	I certify that the statements	~	and this conforms to the rules of the ASME Code, Section XI.	e
	and the second			
	Type Code Symbol Stamp	N/A		
	Certificate of Authorization	No. N/A	Expiration Date N/A	·
: .	Signed Juliu	Owner or Owner's Designee, Title	system Engineer Date 6-/4	20 05
,	1001 1			
	1			
	•	CERTIFIC	CATE OF INSERVICE INSPECTION	* ,
: •	I, the undersigned, h or Province of	olding a valid commission issue Tennessee and	ed by the National Board of Boiler and Pressure Vessel Inspectors I employed by	<u> of</u>
-		Connecticut	have inspected the compone	
	to the best of my knowledge Report in accordance with By signing this certifi examinations and corrective	e and belief, the Owner has per the requirements of the ASME (icate neither the Inspector nor h e measures described in this O	formed examinations and taken corrective measures described in t	the ~
ز ر	Inspector	Lizzel 's Signature	Commissions 7/40/1 National Board, State, Province, and Endors	sementa
	Date 6/28	20 05	and the second s	<u> </u>

1.	Owner	Tennessee	Valley Authority (TVA)	,		Date Junr 14, 2	2005	· · · · · · · · · · · · · · · · · · ·	
	•	1101 Mark	Name		-	•		· · · · · · · · · · · · · · · · · · ·	
•			ga, TN 37402-2801	`	- . : ·	Sheet 1	of 1		
		Chattanoo	Address	· · · · · · · · · · · · · · · · · · ·		Officer	·		
2.	Plant	Browns Fe	rry Nuclear Plant (BFN		. •	Unit 2		S. 74 F.	500 200
			Name 2000, Decatur, AL 350	·	-	Work Orders (WO	\ 04-716165-00	0 and 04.7461	\$5.001 · · ·
			· · ·			Engineering Docum	nentation Chang	e (EDC) 61548	3
		· ••	Address	•	: *		cement Organization	P.O. No., Job No.	, etc.
3.	Work Pe	rformed by	TVA-BFN Name		~	Type Code Symbol	Stamp N/	\ ····································	
		P.O.Box	2000, Decatur, AL 356	509-2000		Authorization No.	NA		
			Address			Expiration Date	.N/A ,,		<u> </u>
	Idontifion	tion of System	m Svetom 073 High	Pressure Codent le	-	CI) System (ASME Co	via Class 2 equ	ivalent)	
4.	Identifica	tion of Syster	ii System 075, rjigii	Pressure Coolant II	injection (FIF	Cit System (ASME Co		ivalent)	
				•	•	1995/1996, Class 2 (no	• • •		
5. (8	a) Appli	cable Constr	uction Code (piping)	USAS B31.1.0	19 _67*	Edition, N/A	Addenda	a, <u>N/A</u>	Code Case
(1	b) Appli	cable Edition	of Section XI Utilized fo	r Repairs or Replace	ements 19	95 Edition, 1996 Adde	nda		*117 -
		•	• • • • • • •		er jar erem				
6.	Identifica	tion of Comp	onents	**************************************	Passion				
					a A =	angeren jan en en a			40145
						, , , ,	- · · · · · · ·		ASME Code
	Name	o of	Name of	Manufacturer :	National Board :	Other	Year	Corrected, Removed, or	Stamped (Yes
	Compo		Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)
			 	N	178 S W 1	0.000.000			
	CI/RCIC A in Check \		Hancock	N/A	N/A	2-CKV-073-0629	N/A	Removed	No
	CVRCIC A		Flowserve	99BAP	N/A	2-CKV-073-0629	1982	Installed	No
	in Check \	/alve	unknown	, N/A	N/A	NA STATE	N/A	Removed	No
pipii	iig		dimiowii	March Broke	5	सिंहर है और		Nemoved	
pipii	ng		Consolidated Power	NA	N/A	N/A		Installed	, No
	·		Supply			·		1 34 1 1	
		· ·			<u> </u>	;;			
							****		_
7.	Descript	on of Work	Replaced valve and so	ome associated pipir	ng.	<u> </u>	· · · · · · · · · · · · · · · · · · ·	,	
-		**							
8.	Tests Co	onducted: F	Hydrostatic F	neumatic	Nominal (Operating Pressure	₫•• Exempt	П	·
			. –				** - Ref. Code	Case N-416-2	
		C	Other 🔲 . Pres	sure <u>N/A</u> ps	si Te	st Temp. NA	°F		

^{*}as amended by additional quality assurance requirements found in Contract 68C37-91602 and Design Criteria BFN-50-7073 and BFN-50-C-7105.

WID: Work Orders (WO) 04-716165-000 and 04-716165-001
9. Remarks Replaced valve and some associated piping.
Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. NA Expiration Date NA
Signed Styles A Market of Owner's Designee. Title Date
And the second of the second o
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB CT of
Connecticut have inspected the components described
in this Owner's Report during the period $1-19-05$ to $6-20-05$, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's
Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in
any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Commissions TN4011
Inspector's Signature National Board, State, Province, and Endorsements
Date 6/20 2005.

1. Owner Tennessee	Valley Authority (TVA)			Date June 14,	2005		
1101 Marke	Name et Street	•					
Chattanoog	a, TN 37402-2801		- -	'Sheet 1	of 1		
	Address		- ,				
2. Plant Browns Fer	ry Nuclear Plant (BFN)	·	Unit 2	1120 11 1		****
•	Name		• • •	Work Order (WO)			· 'A *
P. O. Box 2	000, Decatur, AL 356 Address	609-2000		Design Change No Receir/Reclar		529A in P.O. No . Job No.	. etc.
3. Work Performed by	TVA-BFN	* 45 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	_	Type Code Symbol	Stamp N	/A • • • • • • • • • • • • • • • • • • •	*****
P. O. Box 2	Name 000, Decatur, AL 356	509-2000	_ • • • • • •	Authorization No.	N/A		•
	Address			Expiration Date	N/A		
							
4. Identification of System	System 001, Main	Steam System (A	SME Code C	class 1 equivalent)	• •••		
	. •	÷	. ,	***		•	
5. (a) Applicable Constru	ction Code USAS B	31.1.0 19	67 * Edi	tion, N/A	Addenda,	- NA	Code Case
(b) Applicable Edition	of Section XI Utilized for	r Repairs or Replace	ements 19	95 Edition, 1996 Adde	nda	•	
•			* **** **** ********	The second second second			
6. Identification of Compo	onents ·			***			
	· · · · · · · · · · · · · · · · · · ·					<u>,</u>	_ -
· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •				•••		ASME
			National	Sheet is directly and the state of the state		Corrected,	Code Stamped
Name of	Name of	Manufacturer	Board	Other	Year	Removed, or	(Yes
Component	Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)
Main Steam Pipe Support	TVA	N/A	ı N/A	2-47B400S0006	N/A	Installed	No
				0.470.4000007	21/4		
Main Steam Pipe Support	TVA	NA	. N/A	2-47B400S0007	, NA	Installed	No
				12 14 15 15 15 15 15 15 15 15 15 15 15 15 15			
	2 20 30 30 See					 	
				er er er kommenter i er er Er er	· ·		
	·	• • • • • •				1	
		33,	L		· · · · · · · · · · · · · · · · · · ·	<u></u>	
7. Description of Work	Modified the connection	on between the 2" thi	ick curved si	paced plates and the st	ipportina rina c	on the supports.	· •
							.,
8. Tests Conducted: H	lydrostatic F	Pneumatic	Nominal	Operating Pressure] Exempt	· 127	
			•		_	· KN	
C	ther D Pres	sure <u>N/A</u> ps	i Te	st Temp. N/A	°F		
				•			

^{*}as amended by additional quality assurance requirements found in AISC and Design Criteria BFN-50-7001, BFN-50-C-7105 and BFN-50-C-7107.

9. Remarks Modified the connection between the 2" thick curved spaced plates and the supporting ring on the supports.
Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
A Company of the Comp
Certificate of Authorization No. NA Expiration Date NA
11 10, 1:11
Signed Steph C, (1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/
Owner of Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of Tennessee and employed by HSB CT. of
Connecticut have inspected the components described
in this Owner's Report during the period 2/7/05 to 6/29/05 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's
Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in
any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
San J Fland Commissions Tayor
Inspector's Signature National Board, State, Province, and Endorsements
1/24/ 2016
Date

1.	Owner Tenness	ee Valley Authority (TVA)		_ .	Date June 14, 2005			
	1101 M	arket Street	· · ·		**************************************			· :
,	Chattan	ooga, TN 37402-2801	1.	_: :	Sheet 1 of	.1. ^(*)		
•		Address		- 				
2.	Plant Browns	Ferry Nuclear Plant (BFN			Unit 2		Bricks M.	
		Name		-	Work Orders (WO) 04-7	18364-00	0	•
	P. O. B	x 2000, Decatur, AL 35	609-2000	<u> </u>	Design Change Notice (I	OCN) 512	95B	
		Address		٠.			1 P.U. NO . JOD NO	eic.
3.	Work Performed by	Name	 	_	Type Code Symbol Stam		Α	
	P. O. B	ox 2000, Decatur, AL 35	609-2000	<u>:</u>	Authorization No. N/A	• •		•
		Address .		e e	Expiration Date N/A			
4	Identification of Sys	stem System 068 Rea	ctor Water Recircula	ition System	(ASME Code Class 1 equi	valent)		W 200
٦.	identification of Cyc	Cysioin cos, no.			7,5,1,12,0000,01000,7,042,	valonty	131.17	
<i>- 1</i>	a) Analisable Com	struction Code (piping s	Hotom LICAS Dat 6	.0 10	67 * Edition. N/A	Adden	da, N/A	Code Case
5. (a) Applicable Con	struction code thiping s	system) USAS BS1.	1.0	67 Edition, N/A	- Adder	ua, IVA	Code Case
(b) Applicable Edit	on of Section XI Utilized fo	r Repairs or Replace	ements 19	95 Edition, 1996 Addenda			Lare Tellin
		Service of the servic		4.4	والمستناف المساود والمساو			
6.	Identification of Co	mponents	دری این میکند در	min at.	Miles I I I			 .*.
_			* * ** ***		e e defende e e e e e e e e e e e e e e e e e e			ASME
'	.,				1			Code
	Name of	Name of		National Board	Other	Year :	Corrected, Removed, or	Stamped (Yes
	Component ·	Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)
Sur	oport (Snubber)	Bergen-Patterson	TVA Serial #	N/A	2-SNUB-068-5009	N/A	Removed	Yes
2-4	7B408S006	5 27 N N N N	G003	• • •	na a maria de la composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición de la composición de la composición dela composic		<u> </u>	
	pport (Snubber) 7B408S006	Pacific Scientific	5557	N/A	2-SNUB-068-5009	1994	Installed	Yes
			the state of the					
		The state of the s	100 100 100 100 100	13.1	in emiliare of Distinct			-
	 		 	 			· · · · · · · · · · · · · · · · · · ·	
	<u> </u>						,	2.1.2
				, · · · · · · ·			,	
			····			·		
7.	Description of Wor	k Modified the support	and replaced the hyd	Iraulic snubb	er with a mechanical snubbe	r.		
								
8.	Tests Conducted:	Hydrostatic	Pneumatic [Nominal (Operating Pressure	Exempt	Ц	
		Other 2** Pres	ssure <u>N/A</u> ps	si Te	stTemp. N/A °F		** - See Re	emarks
			•					

^{*}as amended by additional quality assurance requirements found in Contracts 79KA2-825011 and 94N75-108205-000 and Design Criteria BFN-50-7068 and BFN-50-C-7105.

Modified the support and replaced the hydra				
The replacement snubber (5557) is a new s	nubber and was functional	y tested per 2-SI-4.6.H-2A p	prior to installation.	
	• •			
• • •				
	• •			
···- · · · · · · · · · · · · · · · · ·	CERTIFICATE O	FCOMPLIANCE		
	CENTIFICATEO	- CONFLIMINGE	·	
I certify that the statements made in the repo	ort are correct and this confo	orms to the rules of the ASN	TE Code, Section XI.	
en e			•	
			•	
Type Code Symbol Stamp N/A				
e ere u	• •		•	
Certificate of Authorization No. NA	-	Expiration Date _	<u>N/A</u>	
and Start ()	1.011)	D-4-	(a-12) an C	15
Signed Owner or Owner's D	System Engine	er Date	.20 =	_
	· · · · · · · · · · · · · · · · · · ·			
	CERTIFICATE OF INS	ERVICE INSPECTION	The second secon	
. I, the undersigned, holding a valid com			ssure Vessel Inspectors and the State	
or Province of Tennessee	and employed by	1	· · · · · · ·	of
	necticut		ve inspected the components described	
in this Owner's Report during the period to the best of my knowledge and belief, the C	3/23/05	to 6/20/		
Report in accordance with the requirements			Theasures described in this Owner's	
By signing this certificate neither the Ir	nspector nor his employer m	nakes any warranty, express	ed or implied, concerning the	
examinations and corrective measures descr any manner for any personal injury or proper	ibed in this Owner's Report	. Furthermore, neither the l	nspector nor his employer shall be liable	in
any manner for any personal injury or propen	ly damage or a loss of any i	and ansing from or connect	ed with this inspection.	
\bigcap A				
V. 170.	Commission	no TNYDII	•	
Inspector's Signature	Commission	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ard, State, Province, and Endorsements	
•			•	
Date 6/20 20 05			. •	

1. Owner Tennessee	Valley Authority (TVA)			Date	June 14, 2005			
1101 Mark	et Street	1	<u> </u>				1949 y 2	
Chattanoog	ga, TN 37402-2801		-	Sheet	1 of	1 .	e grand g	
	Address		· ·			·		, , ,
2. Plant Browns Fe	rry Nuclear Plant (BFN)		Unit	2			
P. O. Box 2	Name 2000, Decatur, AL 35	509-2000	• • • • •	Work C Design	Change Notice (DCN) 615	00 and 04-72005 29A	
3. Work Performed by	Address TVA-BFN	·· -		Туре С	ode Symbol Stan		n P.O No. Job No.	nc.
•	Name 2000, Decatur, AL 356	509-2000	= .		zation No. N/A	·		
	Address			•	on Date N/A	<u> </u>	<u> </u>	
							•	
4. Identification of System	n System 001, Mair	Steam System (A	SME Code (Class 1 equi	ivalent)			
•	(valve) A	SME Sec. III, Class	1, 1995 Edi	tion/1996 A	∵. ddenda (no N st	amp)	* 1 •	•
5. (a) Applicable Constru	uction Code (piping s	ys) USAS B31.1.0	<u> </u>	7 * Edi	tion, NA	Adden	da, NA C	Code Case
(b) Applicable Edition	of Section XI Utilized fo	Repairs or Replace	ments 19	95 Edition.	1996 Addenda		• // • • • • • • • • • • • • • • • • •	
(5)	_		-			•	•	
6. Identification of Comp	ononto		er erereken. G		A Table	· ·		
6. Identification of Compo	onenis				the second second second	• • • • •		••
		18 78 Calman	10 (4.4.4)	1	. 13.			ASME
				or the grant			1 1	Code
Name of	Name of	Manufacturer	National Board		Other	Year	Corrected, Removed, or	Stamped (Yes
Component	Manufacturer	Serial No.	No.	· · · · Ide	ntification	Built	Installed	or No)
Main Steam Line Drain	Velan Valve Corp.	932753	N/A	2 50	V-001-0056	1993	Parama	No
Outer Isolation Valve	B10-7144B-02AA	332733	- AWA	2-10	v-001-0050	1993	Removed	140
Main Steam Line Drain Outer Isolation Valve	Anchor Darling/ Flowserve	AX-376	N/A	2-FC	V-001-0056	2005	Installed	No
piping	unknown	N/A	N/A		N/A	NA	Removed	No
piping	Consolidated Power Supply	N/A	N/A		NA	N/A	Installed	No

		·				<u> </u>		- • .
7. Description of Work	Replaced valve and so	me associated pipe	•		•		, \	
• • • • • • • • • • • • • • • • • • • •								
8. Tests Conducted: H	Hydrostatic F	neumatic .	Nominal	Onerating P	ressure X**	Exempt	П	•
	· ·	. —		, -		•	_	
C	Other Pres	sure <u>N/A</u> ps	ı Te	st Temp.	NA °F	** • ref. (Code Case N-410	5-2

^{*}as amended by additional quality assurance requirements found in Contract 68C37-91602 and Design Criteria BFN-50-7001 and BFN-50-C-7105.

WID: 04-720057-0	00 and 04-720057-002
9. Remarks Rep	placed valve and some associated pipe.
	Applicable Manufacturer's Data Reports to be attached
. ;	
	Proc. Communication of the Com
	· · · · · · · · · · · · · · · · · · ·
• •	
	CERTIFICATE OF COMPLIANCE
•	
I certify that the sta	atements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
	•
Type Code Symbo	ol Stamp N/A
Certificate of Author	orization No. NA -rc. V. Expiration Date N/A
Signed Stu	Sh. C. William System Engineer Date G-24, 2005
	Owner or Owner's Designed, Title
	CERTIFICATE OF INSERVICE INSPECTION
I, the unders	signed, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of	Tennessee and employed by HSB CT of
, –	Connecticut have inspected the components described
in this Owner's Re	port during the period //24/05 to 6/24/05 , and state that
to the best of my k	nowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's
Heport in accordar	nce with the requirements of the ASME Code, Section XI.
examinations and o	corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in
any manner for any	y personal injury or property damage or a loss of any kind arising from or connected with this inspection.
0	
	af Flow Commissions TN4011
	Insdector's Signature National Board, State, Province, and Endorsements
Date	<u>6/29</u> 20 <u>05</u>

1 12/14

<u> </u>	Owner	Tennessee	Valley Authority (TVA)			Date June 14, 2	005					
••	• Times	1101 Mark	Name		-							
				 _	_	01						
		Chattanoog	ga, TN 37402-2801 Address		_	Sheet 1	of 1					
2.	Plant	Browns Fe	rry Nuclear Plant (BFN) ·		Unit 2						
	-		Name		-	Work Orders (WO)	04-720786-00	00 04-720786-0	002 and			
		' P. O. Box 2	2000, Decatur, AL 356	609-2000	- · · · ·	Work Orders (WO) 04-720786-000, 04-720786-002 and 04-720788-000 Design Change Notice (DCN) 63603						
	•		Address	· · · · · · · · · · · · · · · · · · ·	.	Recair/Replacement Organization P.O. No.: Job No. etc.						
3.	Work Pe	rformed by	TVA-BFN	· · .		Type Code Symbol Stamp N/A						
		P. O. Box 2	Name 2000, Decatur, AL 356	509-2000	_	Authorization No.	N/A					
•	Address					Expiration Date	N/A					
												
4.	Identifica	ition of System	m System 006, Heat	er Drains and Vents	System (A	SME Code Class 2 equ	iivalent)	<u>. 1863 - 18</u>	* * * * * * * * * * * * * * * * * * * 			
			(valves)	ASME Sec III, Class	s 2 (no N sta	mp)						
5. (a) Appli	cable Constr	uction Code · (piping s	ys) USAS B31.1.0	19	67 • . Edition,	N/A Adden	da, NA	Code Case			
1	b) Appli	icable Edition	of Section XI Utilized for	Repairs or Replace	ements 19	95 Edition, 1996 Adder	nda					
`		• • •	, , , , , , , , , , , , , , , , , , ,	•			 :					
;	lalantifias	 ation of Comp	and the second of	a 2	· weigh	Marie Commence						
<u>0.</u>	· Identilica	ation of Comp	onens,	· · · · · · · · · · · · · · · · · · ·	• • • · · · · · · · · · · · · · · · · ·	<u> </u>		<u> </u>				
					ł			}	ASME			
					Nastara	· · · · · · · · · · · · · · · · · · ·		Compated	Code			
	Nam	e of	Name of	Manufacturer	. National . Board	Other	Year	Corrected, Removed, or	Stamped (Yes			
	Comp	onent	Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)			
Ste	am to SJA	F Δ Drain	Handcock	N/A	N/A	2-FCV-006-0113	- N/A	Removed	No			
vah			5500W1XLM13	Control of Marketine								
Ste	am to SJA	E A Drain	Flowserve Anchor Darling	27BAC	N/A	2-FCV-006-0113	2005	Installed	No.			
	am to SJA	E B Drain	Handcock	, N/A	NA	2-FCV-006-0114	NA	Removed	No			
vah		E 0 0 '-	5500W1XLM13	26BAC	N/A	2-FCV-006-0114	2005	Installed	- No			
vah		E B Drain	Anchor Darling	20BAC	144	2-FCV-000-0114	2005	Installed	140			
pip	ing		unknown		N/A	N/A	N/A	Removed	No			
pip	ing		Consolidated and Dubose	N/A	N/A	N/A	N/A	Installed	No ·			
			*****	· · · · · · · · · · · · · · · · · · ·								
7.	Descrip	tion of Work	Replaced valves and	some associated pip	ing							
												
8.	Tests C	onducted.	Hydrostatic	Pneumatic	Nominal .	Operating Pressure	** Exempt					
			Other Pres	sure <u>N/A</u> ps	si Te	est Temp. N/A	°F ** - ref	. Code Case N-	416-2			
			I Sheets in form of lists, ort is included on each sl									

^{*}as amended by additional quality assurance requirements found in Contract 68C37-91602 and Design Criteria BFN-50-7006 and BFN-50-C-7105.

Homarke Honiacod val	vee and some associated	d pining		
nemarks <u>nepiaceu var</u>			ons to be attached	
	,			
ertify that the statements managed Code Symbol Stamp ertificate of Authorization No. gned Code Symbol Stamp I, the undersigned, holding Province of The Symbol Stamp This Owner's Report during the best of my knowledge are port in accordance with the By signing this certificate aminations and corrective meaning the symbol	in this Owner's Report during the period 3-27-05 to 6-2/-05 , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.			
	<u>•</u>	<u> </u>		
				
-	<u>:</u>			
	α	CERTIFICATE OF COM	PLIANCE	
certify that the statements	made in the report are co	orrect and this conforms to	the rules of the ASME Code, Section XI.	
	~			
ima Cada Cimbal Stamp	Al/A · ·			
ype Code Symbol Stamp	IVA			
Certificate of Authorization	No. N/A		Expiration Date N/A	
A	6 /11/	4		
Signed //www	CIN Willed	System Engineer	Date	20 03
Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed System Engineer Date N/A I, the undersigned, holding a valid commission issued by the National Board of Boilor and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB CT of New Inspected the components described in this Owner's Report during the period 3-27-05 to 6-21-05 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in				
• · · ·	,			
•		Section 1	:	
	•			
	CEF	RTIFICATE OF INSERVICE	INSPECTION	•
I, the undersigned, he	olding a valid commission	n issued by the National Box	ard of Boiler and Pressure Vessel Inspectors a	nd the State
	olding a valid commission Tennessee	n issued by the National Bo and employed by	rd of Boiler and Pressure Vessel Inspectors at HSB CT	c
r Province of	olding a valid commission Tennessee Connecticu	n issued by the National Boa and employed by	rd of Boiler and Pressure Vessel Inspectors at HSB CT have inspected the componer	its described
r Province of	olding a valid commission Tennessee Connecticu	n issued by the National Boa and employed by	rd of Boiler and Pressure Vessel Inspectors at HSB CT have inspected the componer	its described
r Province of this Owner's Report during the best of my knowledge	olding a valid commission Tennessee Connecticu ng the period a and belief, the Owner h	n issued by the National Boa and employed by it	rd of Boiler and Pressure Vessel Inspectors at HSB CT have inspected the componer	its described
r Province of n this Owner's Report during the best of my knowledge Report in accordance with to By signing this certific	olding a valid commission Tennessee Connecticut ng the period a and belief, the Owner he the requirements of the A cate neither the Inspecto	n issued by the National Boa and employed by it. 3-27-05 to as performed examinations ASME Code, Section XI. or nor his employer makes as	rd of Boilor and Pressure Vessel Inspectors at HSB CT have inspected the componer of 6-2/-05 and taken corrective measures described in the correction of the corre	nts described and state that is Owner's
r Province of this Owner's Report during the best of my knowledge Report in accordance with the By signing this certific xaminations and corrective	olding a valid commission Tennessee Connecticut ng the period a and belief, the Owner hather requirements of the A cate neither the Inspector measures described in	n issued by the National Boa and employed by at. 3-27-05 to as performed examinations ASME Code, Section XI. or nor his employer makes a this Owner's Report. Furth	And of Boilor and Pressure Vessel Inspectors at HSB CT have inspected the componer of 6-2/-05 and taken corrective measures described in the correction of the corr	nts described and state that is Owner's
r Province of this Owner's Report during the best of my knowledge Report in accordance with the By signing this certific xaminations and corrective	olding a valid commission Tennessee Connecticut ng the period a and belief, the Owner hather requirements of the A cate neither the Inspector measures described in	n issued by the National Boa and employed by at. 3-27-05 to as performed examinations ASME Code, Section XI. or nor his employer makes a this Owner's Report. Furth	And of Boilor and Pressure Vessel Inspectors at HSB CT have inspected the componer of 6-2/-05 and taken corrective measures described in the correction of the corr	nts described and state that is Owner's
or Province of In this Owner's Report during the best of my knowledge Report in accordance with the By signing this certific examinations and corrective	olding a valid commission Tennessee Connecticut ng the period a and belief, the Owner hather requirements of the A cate neither the Inspector measures described in	n issued by the National Boa and employed by at. 3-27-05 to as performed examinations ASME Code, Section XI. or nor his employer makes a this Owner's Report. Furth	And of Boilor and Pressure Vessel Inspectors at HSB CT have inspected the componer of 6-2/-05 and taken corrective measures described in the correction of the corr	nts described and state that is Owner's
or Province of In this Owner's Report during the best of my knowledge Report in accordance with the By signing this certific examinations and corrective	olding a valid commission Tennessee Connecticut ng the period a and belief, the Owner hather requirements of the A cate neither the Inspector measures described in	n issued by the National Boa and employed by at. 3-27-05 to as performed examinations ASME Code, Section XI. or nor his employer makes a this Owner's Report. Furth	And of Boilor and Pressure Vessel Inspectors at HSB CT have inspected the componer of 6-2/-05 and taken corrective measures described in the correction of the corr	nts described and state that is Owner's
or Province of In this Owner's Report during the best of my knowledge Report in accordance with the By signing this certific examinations and corrective	olding a valid commission Tennessee Connecticut ng the period a and belief, the Owner hather requirements of the A cate neither the Inspector measures described in	n Issued by the National Boa and employed by 11. 3-27-05 to las performed examinations ISME Code, Section XI. or nor his employer makes at this Owner's Report. Furth age or a loss of any kind aris	And of Boilor and Pressure Vessel Inspectors at HSB CT have inspected the componer	nts described and state that is Owner's
or Province of In this Owner's Report during the best of my knowledge Report in accordance with the By signing this certific examinations and corrective	olding a valid commission Tennessee Connecticut ng the period a and belief, the Owner hather requirements of the A cate neither the Inspector measures described in	n issued by the National Boa and employed by at. 3-27-05 to as performed examinations ASME Code, Section XI. or nor his employer makes a this Owner's Report. Furth	And of Boilor and Pressure Vessel Inspectors at HSB CT have inspected the componer of 6-2/-05 and taken corrective measures described in the correction of the corr	nts described and state that is Owner's he shall be liable in
n this Owner's Report during the best of my knowledge Report in accordance with the By signing this certific examinations and corrective my manner for any personal leaders.	olding a valid commission Tennessee Connecticut ng the period a and belief, the Owner hather requirements of the A cate neither the Inspector measures described in	n Issued by the National Boa and employed by 11. 3-27-05 to las performed examinations ISME Code, Section XI. or nor his employer makes at this Owner's Report. Furth age or a loss of any kind aris	And of Boilor and Pressure Vessel Inspectors at HSB CT have inspected the componer 6-2/-05 and taken corrective measures described in the correction of the correction	nts described and state that is Owner's he shall be liable in

	Ourse Topposes	/alley Authority (TVA)	ने 1	 	Date June 15, 200	5		•
١.	Owner Tennessee \	Name	18	-	<u></u>			<u> </u>
				-	Choot 4 of	4		
	Chattanoog	a, TN 37402-2801 Address		- .	Sheet 1 of	1		· · ·
2.	Plant Browns Fer	ry Nuclear Plant - (BFN) - <u>.</u> - , ,,		Unit 2	• ,		
٤.		000, Decatur, AL 356		- ',	Work Order (WO) 05	-71334D-DC	no .	
	P. U. B0X 2	Address		.			on P.O No. Job No., e	ic.
3.	Work Performed by	TVA-BFN			Type Code Symbol St	amp N	/A	· · · · · ·
٠.	_	000, Decatur, AL 356	509-2000 ~		Authorization No.: 1	VA		
		Address		-	Expiration Date N	Α		
		remen romania ja						· :. · .
4.	Identification of System				m (ASME Code Class 2	equivalent)		
					·	; ·	2.00	
5. ((a) Applicable Constru	uction Code USAS B	31.1.0 19	67 * Edi	tion, N/A	Addenda,	NA C	ode Case
	(b) Applicable Edition	of Section XI Utilized fo	r Repairs or Replace	ements 19	95 Edition, 1996 Addend	1	•	
,	(ε) γφρισασίο Σαιστίο	•						•
_	Identification of Compo	onents	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		المستنب أبدا المامة		• •	
6.	identification of Comp	S. Torrison	إخيرني ينان		The Porce	\ .	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·
·			1				7. 1	ASME
				National		1	Corrected,	Code Stamped
	Name of	Name of Manufacturer	Manufacturer Serial No ****	Board No.	Other	Year Built	Removed, or Installed	(Yes or No)
	Component	i i i	Serial No.	द्याप्रसिद्ध सम्ब		Jun		
RI	HR Systme I Supp Pool pray/Test Isol Valve	Walworth	N/A	N/A	2-FCV-074-0057	NA		No
-		The transfer of the fire	身- repl	aced valve	disc			
va	lve disc	Walworth	N/A	N/A	2-FCV-074-0057	N/A	Removed	- No
va	lve disc	Crane () ()	D1015 3	: NA	2-FCV-074-0057	NA	Installed	No
L	<u> </u>	to his to be a top top to	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 (11)	A Carlo Migraphy Const.		*	
							·	<u>l. ` </u>
_					193			2.3
7.	Description of Work	Replaced valve disc.			<u>:</u>			······································
					•	 -		
		·Σ _i ag = j ← i − i − i − i − i − i − i − i − i − i						
8.	Tests Conducted:	Hydrostatic	Pneumatic	Nominal	Operating Pressure	Exempl		•
8.	•	Hydrostatic 1	_			•		
8.	•	Hydrostatic 1	_			•	: □	

^{*}as amended by additional quality assurance requirements found in Contract 68C37-90744, GE P.O. 205-H0998, contract 16774 and Design Criteria BFN-50-7074 and BFN-50-C-7105.

WID: <u>05-713</u>	3340-000				
9. Remarks	Replaced valve disc.		•		
	78 100 s - 110	Applicable Manufacturer's D	ata Reports to be attached		
	·				
					
			 	·	
		•			
		CERTIFICATE OF	COMPLIANCE		
I certify that	the statements made in	the report are correct and this conform	ns to the rules of the ASME (Code, Section XI.	
	***	· · · · · · · · · · · · · · · · · · ·		•	
Type Code	Symbol Stamp N/A	ai e a sus		•	
1) po 0000					
Certificate of	of Authorization NoN	VA	Expiration DateNA	<u> </u>	
	at 111	. #//./)		1-71	~_
Signed	Sephel: ()	System Engineer or Owner's Desidede, Trile	Date	CP - CT , 20	(25)
	V Connected	· · · · · · · · · · · · · · · · · · ·		11	
* N.1					
		in the second		1	
		CERTIFICATE OF INSE	RVICE INSPECTION		
. 1. the	undersigned, holding a	valid commission issued by the Nation	al Board of Boiler and Pressu	ire Vessel Inspectors and the Stat	le
or Province	of Tenne	ssee and employed by	<u> </u>	ISB CT	_ of
	ada Danari during the pe	Connecticut		nspected the components describ and state the	
in this Own	ers Report during the pe of my knowledge and bel	eriod 3/28/05 lief, the Owner has performed examina	tions and taken corrective me		
Report in ac	cordance with the requi	rements of the ASME Code, Section >	(l	•	
By sign	gning this certificate neit	ther the Inspector nor his employer ma res described in this Owner's Report	kes any warranty, expressed Furthermore, neither the loss	or implied, concerning the vector nor his emphager shall be lie	hle in
any mannei	for any personal injury of	or property damage or a loss of any kir	d arising from or connected v	with this inspection.	DIO
•	\wedge	• • • •			
/	/ 11.				
	and the	Commission			
	Inspector's Stanisture	•	National Board	State, Province, and Endorsements	
Date	7/1	20 <i>0 5</i>	4		,
					

1. Owner Tennessee	Valley Authority (TVA)			Date	June 15,	2005			
1101 Marke	Name et Street			;					
Chattanoog	a, TN 37402-2801		-	Sheet	1	of			•
- -	Address		-	-					.4
2. Plant Browns Fer	ry Nuclear Plant (BFN)	····	Unit ·	2			The second of th	
P. O. Box 2	Name 000, Decatur, AL 356	509-2000			rder (WO)				
****** · · · · · · · · · · · · · · · ·	Address		 ` : • · · · ·				•••	n P.O. No., Job No., et	ic
3. Work Performed by	TVA-BFN Name	· · · · · · · · · · · · · · · · · · ·		Type Co	de Symbol	Stamp	<u>N</u>	A	<u> </u>
P. O. Box 2	000, Decatur, AL 356	509-2000	 	Authoriz	ation No.	N/A		····	<u></u>
	Address			Expiration	_	N/A			
Identification of System	n System 074, Resi	dual Heat Removal ((RHR) Syste	m (ASME		s 2 equi	valent)	* Product or document to see	· · · · · · · ·
		· .	d eres					••••	
5. (a) Applicable Constru	ection Code USAS B	31.1.0 19	67 * Edi	tion.	N/A	∴∷ Add	enda.	יונרי N/A Co	ode Case
		· · · · · · · · · · · · · · · · · · ·				_			
(b) Applicable Edition	of Section XI Utilized for	r Repairs or Replace	ements 19	95 Edition,	1996 Adde	enda.			
		;		Manager of the server				est of the	
6. Identification of Compo	onents	<u>. t</u> iste	رد العادية	. <u>१९५ ११ १९ ४ १९ ४</u>	ing	<u>N</u>			
	· · · · · · · · · · · · · · · · · · ·						,) , , , , , ,		ASME
		ŀ	National					Corrected,	Code Stamped
Name of .	Name of	Manufacturer	Board		Other	İ	Year	Removed, or	(Yes
Component	Manufacturer	Serial No.	No. 25	Idet	ntification		Built	Installed	or No)
Drywell Spray Header pipe nipple	unknown	N/A	NA,		NA		NA	Removed	No
Drywell Spray Header pipe nipple	Consolidated Power Supply	SULTANIA TAN OF INTALE	N/A :	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	NA		2002	Installed	No
44.0	to a second	grego (n. 17. o pros 1. o g Projekt (n. 18. o pros 1. o g)	12 M	5. 6	ik e sege	; `. (:		
	2.7 7 7 7 3.7 V Year	्षेत्रकार व्यवस्थानीय देख		(3,74)	3,500	•. •			
				<u> </u>					· · · · · · · · · · · · · · · · · · ·
		<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	<u> </u>				<u> </u>	
					to the second	•	• ``		
7. Description of Work	Replace threaded pipe	e nipple damaged du	iring disasse	embly					
	 ,					· .			•
8. Tests Conducted:	Hydrostatic 🔲 F	Pneumatic	Nominal	Operating P	ressure [] :	Exempl	\boxtimes	•
C	Other Pres	sure NA ps	зі Те	st Temp.	N/A	°F			
	_			•					

^{*}as amended by additional quality assurance requirements found in Design Criteria BFN-50-7064, BFN-50-7074 and BFN-50-C-7105.

WID: <u>05-7</u>	713699-000	
9. Remark		
	Applicable Manufacturer's Data Reports to be attached	
Applicable Manufacturer's Data Reports to be attached		
	•	
	CERTIFICATE OF COMPLIANCE	
I certify th		
Type Cod		
1,700 000	io dynibol dunip	
Certificate	e of Authorization No. N/A Expiration Date N/A	
	1.11	
Signed		<u>US</u>
	Owner or Owner's Designes, 1/1/8	
•		
	CEDTIFICATE OF INCEDVICE INCEDTION	
1. ti		te
	ce of and employed by HSB CT	of
	Connecticut have inspected the components describ	
Report in	accordance with the requirements of the ASME Code, Section XI.	•
Ву	signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the	
		able in
any mann	ier for any personal injury or property damage or a loss of any kind ansing from or connected with this inspection.	
	e de la companya de La companya de la co	
	17 Parl Commissions TN 4011	
	Offiniosis	
	1/10	
Date		

1.	Owner Tennessee V	alley Authority (TVA)			Date June 15, 2005			
	1101 Market	Street Name	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			_	•	
	Chattanooga	, TN 37402-2801			Sheet 1 of	1	•	
		Address		- .				51
2.	Plant Browns Fern	y Nuclear Plant (BFN)			Unit2		Management of the	·**
		Name 100, Decatur, AL 356		ener in de la companya de la company	- Work Order (WO) 01-0	04739-000)	
	P. O. Bux 20	Address	09-2000	-			P.O. No., Job No., et	c. · ·
3.	Work Performed by	TVA-BFN		•	Type Code Symbol Stan	ip N/	A	·
		Name 100, Decatur, AL 356	09-2000	-	Authorization No. N/A	. 		
		Address		-	Expiration Date N/A			. ,
					Expiration Date 1VA			
4.	Identification of System	System 074, Resid	lual Heat Removal (RHR) Syster	m (ASME Code Class 2 ec	uivalent)		
			* * * * * * * * * * * * * * * * * * * *					
5. (a) Applicable Construc	tion Code USAS B3	31.1.0 19 [^]	67 Edit	ion, N/A A	ddenda,	':N/A' Co	ode Case
				,		,		
((b) Applicable Edition of	f Section XI Utilized for	Repairs or Replace	rnents 19	95 Edition, 1996 Addenda		• • • • • • • • • • • • • • • • • • • •	•
				• • •		•		•
6.	Identification of Compor	nents						•
			ened :	9 (24 M) 50 M	Comment of the second		7. 7.	ASME
			· - · · ·		A Section of the sect			Code
	Name of	Name of	Manufacturer	National Board	Other	Year	Corrected, Removed, or	Stamped (Yes
	Component	Manufacturer	Serial No.	No.	Identification	Built	Installed	or No)
_								
	IR Pump D sch Ckeck Valve	Powell Valves 20" 3061WE	in the second second	a NA	2-CKV-074-0559D	NA	*	No
val	ve disc	Powell Valves	* - repla	N/A	· · · N/A	N/A	Removed	No
						· ·		· ·
val	ve disc	Powell Valves	order to grade	, N/A	NA CONTRACTOR	2002	Installed	No
-					The state of the s			
							<u> </u>	<u> </u>
_								
7.	Description of Work	Replaced valve disc						
	. -							
8.	Tests Conducted: H	ydrostatic P	neumatic 🔲	- Nominal	Operating Pressure	Exempl		•
	•	ther Press	sure NA ps	si Te	st Temp. N/A °F			
	U	niei [1] i tess	PS	10	1973			
						*		

^{*}as amended by additional quality assurance requirements found in Contract 68C37-91602 and Design Criteria BFIN-50-7074 and BFN-50-C-7105.

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€.	Remarks Replaced valve disc
	Applicable Manufacturer's Data Reports to be attached
-	
-	•
	;
_	CERTIFICATE OF COMPLIANCE
	I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp NA
	Certificate of Authorization No. N/A Expiration Date N/A
	Certificate of Authorization No.
	Signed Starburd Julian , System Engineer Date
	Owner or Owner Designee, Title
	• •
	i ,
	** · * * * * * * * * * * * * * * * * *
_	CERTIFICATE OF INSERVICE INSPECTION
_	1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
_	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB CT. of Connecticut
_	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Tennessee and employed by HSB CT. of have inspected the components described in this Owner's Report during the period 3/3/1/05 to 7/1/05.
-	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Tennessee and employed by HSB CT. of Connecticut have inspected the components described in this Owner's Report during the period 3/31/05 to 7/1/05. and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's
-	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Tennessee and employed by HSB CT. of Connecticut have inspected the components described in this Owner's Report during the period 3/3/05 to 7/1/05. and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
_	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by HSB CT. of Connecticut have inspected the components described in this Owner's Report during the period 3/3/05 to 7/1/05. and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in
_	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Tennessee and employed by HSB CT. of Connecticut have inspected the components described in this Owner's Report during the period 3/3/05 to 7/1/05. , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
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1. Owner Tennessee	Valley Authority (TVA)	•		Date	June 16, 2005			
1101 Marke	Name		- ,			,	·	
	a, TN 37402-2801		- .	Sheet	1 of	•		
Chattanoog	Address		- . '	Sneet				
O Dient Brown For	en Musica Diant (DEN	n		Limit		- 1 42		
2. Plant Browns Fer	rry Nuclear Plant (BFN) 		Unit	2			· · · ·
P.O. Roy	2000. Decatur. AL 35	eng-2000			rders (WO) 03-0 255-000 & 03-004		00 & 00-011219-0	001 and
F.O.Bux2	Address	009-2000	_	_00-00-4			n P.D No , Job No , e	tc
3. Work Performed by	TVA-BFN	•	*** * *	Type C	ode Symbol Stam	p* · -N/	A"	
P. O. Box 2	Name 1000, Decatur, AL 35	509-2000		Authori	ration No. N/A	••		
	Address	 	-	Expirati	on Date N/A			
			40 m	tester i				
4. Identification of System	n System 001, Mair	Steam System (A	SME Code (lass 1 equi	valent)			<u> : </u>
•	ASME S	ection III, Article 9,	1965 and		54 · 12		Company of the	kar© ⊕ .
5. (a) Applicable Constru	iction Code ASMES			tion, Su	mmer 1970 A	ldenda,	NA C	ode Case
,, , , , , , , , , , , , , , , , , , ,		ini		.oc Edw	4000 4444-			
(b) Applicable Edition	of Section XI Utilized fo	r Hepairs or Heplace	ements 19	95 Edition,	1996 Addenda	•	• . •	
•••	* ****	.*** <i>je</i> :	والمستدر والمساور	-	· · · · · · · · · · · · · · · · · · ·			. :
6. Identification of Compo	phents		·- £2.467	ાર્ટી છે લોક્ય છે.	180		, s*s	
	*** *********				The second with the second			r `
,		ļ <u>.</u>			,			ASME Code
			National -			· ·	Corrected,	Stamped
Name of Component	Name of Manufacturer	Manufacturer Serial No. 3: 44	- Board - No≋⊬≀		Other	Year Built	Removed, or Installed	(Yes or No)
Component	ivia juiacturei	Town and the long	Jason Dear	••	i di caucat	Dunt	installed ;	0, 110,
Main Steam Relief Valve	Target Rock Corp.	1026	NA		V-001-0179	1968	Removed	Yes
Main Steam Relief Valve	7567F-000-10	************	N/A	2 BC	V-001-0179	1968	Installed	Yes
Man Steam Relief Valve	Target Rock Corp	1015	I IVA	. 270	^-001-0179	1900	installed	168
Main Steam Relief Valve	Target Rock Corp.	1021	. N/A	, 2-PC	V-001-0005	1968	Removed	Yes
Main Steam Relief Valve	7567F-000-10	1070	•N/A	Prince Cornel BC	V-001-0005	1968	Installed	, Yes
Main Steam Relief Valve	Target Rock Corp. 7567F-000-10	1070		2.70	V;00 1:0003 -4:	1500	Installed	, 105
				*				
				-		, , ,	• •	,
7. Description of Work	Replaced Main Steam			, , , , , , , , , , , , , , , , , , ,		· · · · · ·		
•	Replaced one bolt and	12 spline nuts on t	ne tuto vaiv	e body	<u>: :</u>			
8. Tests Conducted: H	fydrostatic 🔲 F	Pneumatic 🔲	Nominal (Operating P	ressure 🛛	Exempt		
_	Other Pres	sure N/A ps	i Te	st Temp.	NA °F			
	, III	pa			•			
	٠.			•		. :		
NOTE: Supplemental	Sheets in form of lists,	sketches, or drawing	gs may be u	sed, provide	d (1) size is 8½ ir	. X 11 in.	, (2) information	in items 1
through 6 on this repor	t is included on each sh	eet, and (3) each sl	neet is numb	ered and th	e number of shee	is is reco	rded at the top of	this form.

^{*}as amended by additional quality assurance requirements found in GE P. O. 205AJ600, and Design Criteria BFN-50-7001 and BFN-50-C-7105.

9.	Remarks WOs 03-004268-000 & 00-011219-001 (2-PCV-001-0179)	
	Applicable Manufacturer's Data Reports to be attached The main valve body was replaced with rebuilt valve body previously used on Unit 2 (same manufacturer/model number).	
	As a part of the Tech Spec required valve inspections WO 03-004268-000 replaced 2-PCV-001-0179 with a rebuilt valve previously used	
	in BFN Unit 2 (2-PCV-001-0041, S/N 1015). The replacement valve was removed from Unit 2 by WO 00-011219-000 and refurbished by	
	WO 00-011219-001. Valve body 1015 had a bolt and 12 spline nuts replaced under the refurbishment WO 00-011219-001.	
	The bolt was replaced due to galling during disassembly and the nuts were replaced for ease of maintenance and ALARA considerations.	
	WOs 03-004255-000 & 03-004245-001 (2-PCV-001-0005)	
	The main valve body was replaced with rebuilt valve body previously used on Unit 3 (same manufacturer/model number).	
	As a part of the Tech Spec required valve inspections WO 03-004255-000 replaced 2-PCV-001-0179 with a rebuilt valve previously used	
	in BFN Unit 3 (3-PCV-001-0005, S/N 1070). The replacement valve was removed from Unit 3 by WO 03-004245-000 and refurbished by	
	WO 03-004245-001. Valve body 1070 had no replacements or repairs during the refurbishment of the valve.	
	CERTIFICATE OF COMPLIANCE	
	I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.	1
		1
,	Type Code Symbol Stamp N/A	
	Certificate of Authorization No. NA Expiration Date N/A	
	Signed States William System Engineer Date	
	Owner or Owner's Designed, Trile	
	· · · · · · · · · · · · · · · · · · ·	
	CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State	
	or Province of Tennessee and employed by HSB CT of	
•	in this Owner's Report during the period 4/30/57 to 6/28/05 and state that	
	to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the	
	examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind ansing from or connected with this inspection.	
	Last Floris Commissions TN4011	
-	Inspector's Signature Continues National Board, State, Province, and Endorsements	
	Date 6/23 20 05	
_		

1. Owner Tennessee	Valley Authority (TVA)			Date	June 17, 2005				
1101 Marke	Name et Street		- "Najapa	•,	:		1.1		
Chattanood	a, TN 37402-2801		-	Sheet	1 of	1		•	
	Address		-					1.2	
2. Plant Browns Fer	ry Nuclear Plant (BFN)		Unit	2 195-				
	Name		- 	Design	Change Notice (DCN) 516	44	1 %.	
P. O. Box 2	000 Decatur AL 350	509-2000		Work	Order (WO) 03-0	06432 -0 0	0	tc.	
3. Work Performed by				•	ode Symbol Stan			· · •	
	Name 1000, Decatur, AL 350	200 2000		٠٠,	ization No N/A	_			
P. U. Box 2	Address		-						
				Expira	tion Date N/A	G. 1	·		
4. Identification of System	System 073, High	Pressure Coolant I	njection (HP	CI) System	(ASME Code C	lass 2 equ	uivalent)		
				Jan Jan			11.52f = 115	te s	
5. (a) Applicable Constru	ction Code USAS B	31.1.0 19	67 * Edi	tion,	N/A A	ddenda,	NA C	ode Case	
(b) Applicable Edition	of Section XI Utilized fo	r Renairs or Renlace	ements 19	95 Edition	1996 Addenda	•	r rante		
(b) Applicable Editor				CO Editori	, 1000 / 1000 / 1000		•		
6. Identification of Compo	nonto.	. 	e de des de de	. 4.1.		-	* 4	• • •	
6. Identification of Compt		· 100 100 100 100 100 100 100 100 100 10	و المعالم المع				· · · · · ·	<u> </u>	
		, ,						ASME	
;			National				Corrected,	Code Stamped	
Name of	Name of	Manufacturer	Board		Other	Year	Removed, or	(Yes	
Component	Manufacturer	Serial No.	No.	lde	entification	Built	Installed	or No)	
HPCI Test Flow Valve	Crane	CV-09018-8-1	N/A	2-FC	V-073-0035	N/A	Removed	No	
HPCI Test Flow Valve	Crane " "	-CV-09018-9-1	N/A	. 2-FC	V-073-0035 -	N/A	Installed	No	
valve plug	Crane	, or NA see so	ŅA		V-073-0035	N/A	Removed	No	
valve plug	Crane	N/A	N/A	., 2-FC	V-073-0035	N/A	Installed	No	
	••••	1.00	ing.	is					
		# 7 m					Control of the control		
7. Description of Work	· · · · · · · · · · · · · · · · · · ·			nanufacturer and model), refurbished valve body and modified the trim.					
	Installed that valve into	Unit 2.						 	
8. Tests Conducted: }	lydrostatic	Pneumatic	Nominal	Operating I	Pressure 🖾**	Exempt			
	Other Pres	sure NA ps	∵an . si Te	st Temp.	N⁄A [™] °F	** - ref	Code Case N-41	6-2	
		po	10	, omp.		101.		- -	
							(m) 1		

^{*}as amended by additional quality assurance requirements found in GE P.O. 205-H0697, GE Spec 21A1047AK, Contract 68C37-91602 and Design Criteria BFN-50-7073 and BFN-50-C-7105.

9.	Remarks Removed Unit 1 valve 1-FCV-073-0035 (same application, manufacturer and model), refurbished valve body and modified the trim.
9.	Applicable Manufacturer's Data Reports to be attached
	Installed the refurbished Unit 1 valve into Unit 2.
	•

•	
	entre de la companya
	CERTIFICATE OF COMPLIANCE
	I certify that the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp N/A
	Type Code Symbol Stamp 144
	Certificate of Authorization No. NA Expiration Date NA
	(23)
	Signed Stylus System Engineer Date 0-65 , 20 05
	What of Owners Designed, Title
•	
	TO CHOOSE I
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
	or Province of Tennessee and employed by HSB CT of
-	in this Owner's Report during the period ////// to 6/33/25 , and state that
	in this Owner's Report during the period
	Report in accordance with the requirements of the ASME Code, Section XI.
	By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in
	any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	The state of the s
_	Saf Hul Commissions TN4011
	Inspector's Signature National Board, State, Province, and Endorsements
	Date 6/30 2005
	<u> </u>

Leader Committee to the second

			··						
1,	Owner Tennessee	Valley Authority (TVA)	· · · · · · · · · · · · · · · · · · ·	_	Date	June 17, 20	05		<u> </u>
	1101 Mari	Name (et Street	• .	<u>.</u>					
	Chattanoo	ga, TN 37402-2801			Sheet	_1 of	<u>i</u>		
_		Address							
2.		Prry Nuclear Plant (BFN Name		-	Unit	2	·	2 / 1	
,	P. O. Box	2000, Decatur, AL 35 Address	609-2000	- 1:	Work C	Order (WO) 04 Repair/Replacem		on P O No , Job No .	etc
3.	Work Performed by	TVA-BFN	·		Туре С	ode Symbol St	tamp N	<u> </u>	_ <u></u>
	P. O. Box	Name 2000, Decatur, AL 35	509-2000		Authori	zation No	WA	· · . • • · ·	
,		Address		-	Expirati	on Date N	/A		
A	Identification of Syste	m System 001 Mair	Steam System (A	SME Code (Class 2 equi	valent)			
٦.	identification of Cyste	- Cystem Cor, man				,			
5. (a) Applicable Constr	uction Code USAS B	•	-	tion,	N/A	Addenda,		Code Case
			- Donnier or Donlars		OF Edition	1006 Addand		•	•
(1	b) Applicable Edition	of Section XI Utilized fo	r Hepairs or Hepiace	ments 19	95 Edition,	1330 Yadeua	<u>a</u> :	· · · · · · · · · · · · · · · · · · ·	•
6.	Identification of Comp	onents		andres de la companya de la company La companya de la co			, , , , , , , , , , , , , , , , , , ,		
									ASME
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	i	Other ntification	Year Built	Corrected, Removed, or Installed	- Code Stamped (Yes or No)
2C I	RFPT HP Steam Stop		Tale and the second	N/A	2-FC\	/-001-0143	N/A	‡	No
			# - repla	ced valve	disc :				<u></u>
valv	e disc		N/A	NΑ		/-001-0143	NA	Removed	No
valv	e disc	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	elije NA i je go. Van in in din dan	N/A	2-FC\	/-001-0143	, N/A	installed	No
					ž	·			17.
7.	Description of Work	Replaced valve disc	311						.I
8.	B. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Script Pressure N/A psi Test Temp. N/A *F (1) 10 10 10 10 10 10 10								
	C	Other Press	sure <u>N/A</u> psi	Tes	st Temp.	N/A °F	واحدامهن	·/	

^{*}as amended by additional quality assurance requirements found in VTM G080-6870 and Design Cnteria BFN-50-7001 and BFN-50-C-7105.

WID: <u>04-711639-000</u>

9.	Remarks	Replaced valve disc
		Applicable Manufacturer's Data Recorts to be attached
•		
		•
-		
		CERTIFICATE OF COMPLIANCE
		CENTIFICATE OF COMPLIANCE
	Leertify that t	the statements made in the report are correct and this conforms to the rules of the ASME Code, Section XI.
	, com, and	"
	Type Code S	Symbol Stamp N/A
	Certificate of	Authorization No. N/A Expiration Date N/A
	_	W 1 c . 1/1/1/
	Signed	Lych Cild Illed . System Engineer Date 6-22 , 20 05
	 	Owner or Owner's Desymbol Title
		CERTIFICATE OF INSERVICE INSPECTION
	I, the u or Province o	undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Tennessee and employed byHSB CT
	or Province o	Connecticut have inspected the components described
-	in this Owner	r's Report during the period 3/24/0 5 to 6/23/05 and state that
٠.	to the best of	my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's
	Report in acc	cordance with the requirements of the ASME Code, Section XI. ning this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the
	by sign examinations	and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in
	any manner fo	or any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
		Xal Flare Commissions 70 4011
-		Value of the Commissions TO 4511 Inspector's Signature Commissions TO 4511 National Board: State, Province, and Endorsements
	Data	6/23 20.05
	Date	<u> </u>