WASHINGTON PUBLIC POWER SUPPLY SYSTEM

WNP-2 PROJECT

QUALITY VERIFICATION PROGRAM
OVERVIEW REPORT

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QUALITY VERIFICATION PROGRAM

PROGRAM OVERVIEW REPORT

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OF THE

WNP-2 QUALITY VERIFICATION PROGRAM

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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SECTION 1.0

INTRODUCTION

This section identifies the overall purpose and scope of the Supply System Quality Verification Program (QVP); how, when and by whom it was initiated and implemented; and how it is reported. It also provides a guide through the sixty-six reports developed during the course of the program.

1.1 Purpose and Scope

The purpose of the QVP is to verify the adequacy of safety-related construction work completed in the WNP-2 plant prior to July, 1980. This is achieved by a combination of hardware reinspection and documentation review for a significant sample of both construction activities performed on site and fabrication activities performed off site.

The scope of the QVP is all Quality Class I (QC I) and Quality Class II Seismic Category I (QC II SC I) work performed prior to July, 1980, the time of WNP-2 Stop Work Order No. 009 (SWO #9). This work is all that could be considered to be safety related, and was performed by seventy-one site construction contractors or prepurchase vendors. Each one of these is addressed by the QVP.

1.2 Implementation

The QVP was administered by the Supply System and was reviewed by the Supply System Project and Corporate Quality Assurance (QA) departments, the NRC and an independent technical consultant, Technical Audit Associates, Inc.

The QVP is divided into three specific program elements:

- o Prepurchase and Inactive Contracts (PP&IA)
- o Systems Completion (for active contracts)
- o Special Tasks

A diverse group of project organizations were involved in the implementation of the QVP. The following list identifies each organization and its respective activities.

Supply System QVP Office	-	Manage Program Review and Approve Procedures, and Reports Perform/Administer Special Tasks Element Administer Prepurchase and Inactive Contracts Element Monitor Performance of Participants
Supply System Project & Corporate QA	-	Perform PP&IA Document Review Review and Approve Reports Audit and Surveillance
Supply System Project/ Corporate Engineering	-	Perform Reviews for Special Tasks Element Review Evaluations of Related Programs Provide Technical Support
Construction Manager (Bechtel)	-	Manage Active Contracts Perform Contract 215 Reverification Perform QVP/CAT Comparison Perform NDE Verification Perform Contractor Surveillance Perform Audits Prepare Reports
Contractor	-	Perform Reinspections Prepare Reports

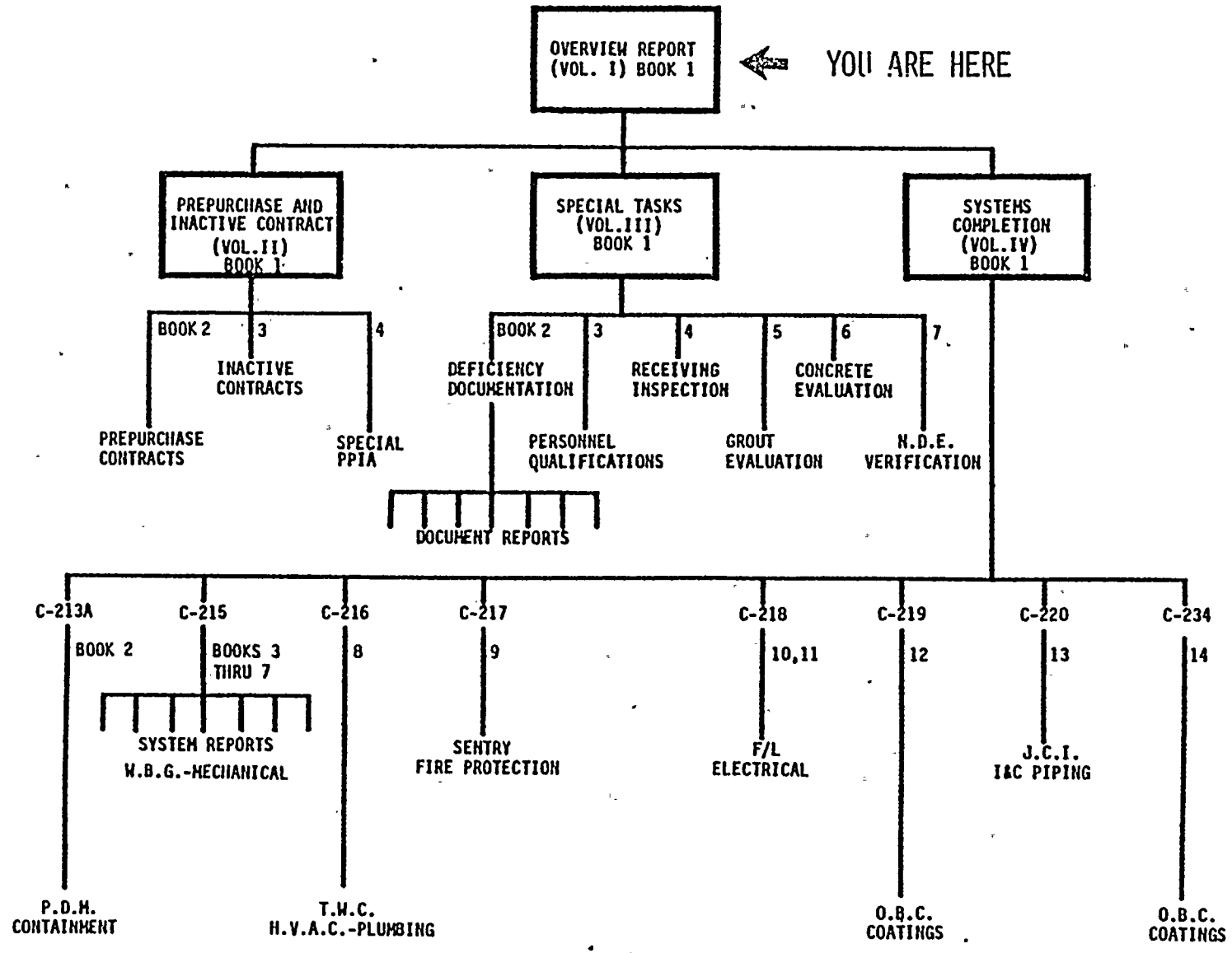
1.3 Reports

The QVP reports have been prepared in three levels of detail. First, this Overview Report presents a compendium of the program, the factors which brought about its implementation, the results of the investigations, and the conclusions drawn therefrom. The second level reports are the three program element reports which provide a summary statement of the total activities performed within the three major elements of the program. The third level reports consist of specific individual reports on activities within the three program elements.

Four volumes containing 26 books with 66 individually-approved reports comprise the QVP Library.

The interrelationship of these reports is demonstrated in Figure 1-1, QVP Report Hierarchy.

The amount of documentation and background material for the activities performed in the QVP is voluminous. These records are being integrated into a comprehensive file at the Project records vault.



QUALITY VERIFICATION PROGRAM REPORT HIERARCHY

Figure 1-1

SECTION 2.0

SUMMARY AND CONCLUSIONS

The safety-related work completed at WNP-2 prior to July, 1980, has been verified by the Quality Verification Program. On the basis of the Program findings, the Supply System concludes that the quality concerns resulting in the NRC's 50.54(f) request are based upon indications of a quality assurance program breakdown because of poor performance by one mechanical subcontractor, untimely response to NRC questions on construction quality, and failure to limit the backlog of unresolved deficiencies.

The management improvements, coupled with the QVP reviews and reinspections, appropriate corrective actions by the Project, and other extensive special inspection programs, have resolved the quality concerns which brought about the NRC's request. The safety-related work completed at WNP-2 prior to July, 1980, now meets the requirements for safe operation of the plant.

2.1 Summary

Major quality issues were identified at WNP-2 by the raising of a number of specific issues during the course of construction, such that the overall quality program in existence prior to July, 1980, was put into question. The Supply System responded to this question with a program of reviews and reinspections to address the adequacy of hardware in the plant. The focus of the reviews became the Quality Verification Program, which embraced 24 special related inspection or corrective-action programs. The QVP is complete, and its results, along with those of these other related programs, some of which are continuing, provide the assurance that the quality of work meets the standard required for safe and reliable operation of the plant.

The construction of WNP-2 comprises some 200 contracts. Of these, 71 contain safety-related work that was accomplished prior to July, 1980. The QVP addresses a that prior work by sample hardware inspections and document reviews in three major areas:

- Systems Completion (Active Contracts) - This task reviews the work performed by eight site construction contractors active after restart of construction in mid-1981.

- Prepurchase and Inactive Contracts - This task covers 49 procurement contracts, and 13 site construction contractors no longer active at the time of the stopwork in mid-1980.

- Special Tasks - Six tasks which are not addressed in the other two elements of the program, respond to specific questions raised in the NRC's 10CFR50.54(f) request.

The program was conducted by an organization with no direct involvement in construction of the plant. The effectiveness of this independent group was periodically tested by management to assure that the objective of verifying the adequacy of prior construction was met, and that priorities were maintained. This was accomplished by management reviews and independent quality assurance audits.

Regular frequent reports were required to inform the Supply System and the NRC of program activities and results. NRC's interaction provided a critical overview of the program to assure commitments were met and implementation was adequate.

It is estimated that about 1.5 million manhours of effort and 42 million dollars in cost were invested to determine the adequacy of prior construction at WNP-2, including special related programs.

The process of selecting a representative sample of hardware began with a determination of the population of work completed and accepted prior to July, 1980, and not reworked or subsequently reinspected by another special program. Such special programs were evaluated for their contribution to fulfilling the objectives of the QVP and, if qualified, the reinspections were not repeated. Hardware samples for reinspection by QVP were selected at random by major commodity from within each contract, and documented prior to inspection.

Reinspections were conducted in a manner that assured suspected problems based upon previous review findings were sought wherever possible, and that personnel performing the inspections were not those who originally inspected the hardware. The inspections accomplished by the QVP did not include disassembly of plant components (some valuable related programs evaluated by QVP did perform component disassembly and detailed inspection), however, QVP inspections included some specialized testing. Current work procedures and instructions were used to inspect the work in order to benefit from the improved procedures resulting from the earlier Restart Program.

Reinspections were performed by active contractors' QC inspectors with appropriate surveillance by the Construction Manager (CM), except in the case of the mechanical contract, which was inspected by the CM's own QC Engineers. All other reviews and reinspections were conducted by the Supply System or CM personnel.

Results of the reinspections were compiled and evaluated to determine the safety significance and trends of identified deficiencies. Based upon this evaluation, inspection samples were increased to focus on the specific problems or characteristics identified by trend analysis.

2.2 Results

In the area of mechanical construction, 128 piping isometrics and 661 supports were reinspected. These comprise 10,000 welds. The construction of mechanical components was found to be acceptable, with two exceptions: 1) undersize welds on pipe supports, which was resolved by

the Project's initiation of a repeat as-built program, engineering analysis, and rework where necessary; and 2) undersize welds on small-bore socket-weld fittings, which was resolved by engineering evaluation and additional reinspection by the Project.

The containment vessel and associated piping and structures were verified by reinspection of 280 feet of welds and 82 hardware items, and review of quality and test records, resulting in the determination that the containment installation is acceptable. Other indicators of vessel construction quality were provided by the NDE Verification Task.

The reinspections in the civil/structural area included 189 structural steel items comprising approximately 2500 welds. Early in the program a large number of minor discrepancies were identified, evaluated, and accepted by the designer. Generic reinspection acceptance criteria were developed to eliminate the repetitious process of documentation, analysis, and acceptance of these items. The reinspections resulted in the structural steel being found acceptable with three exceptions: 1) also determined early in the program, bolting of framework in the containment drywell was found to be incomplete, and was resolved by a 100% reinspection/retorque program; 2) two connections were misaligned and had undersize welds, which were reworked and caused reinspection of the two remaining like connections (they were acceptable); and 3) two welded beam connections were found unacceptable, which were reworked and caused reinspection of all remaining similar connections (also acceptable).

Concrete was not reinspected in this Program. However, a technical evaluation of procedures, specifications, and quality records was performed revealing that, although there were a number of previously-recorded and accepted deviations from the requirements for reinforcement, consolidation, and formwork, the finally-completed concrete structures are acceptable. The NRC Construction Appraisal Team's recent inspection also identified similar deviations. These do not appear to be serious faults affecting the integrity of the concrete structures, however, the Project investigated this matter further and provided a resolution to the NRC.

All types of grout installations were sampled and destructively tested for compressive strength. Sand-cement grout was found to be deficient in certain applications. These deficiencies have been corrected and/or identified for replacement so that all grout is acceptable.

In the heating, ventilating, and air-conditioning (HVAC) area, 109 ductwork items, 25 supports, and 18 equipment components were reinspected. Very few minor deviations (not safety significant) were identified, leading to the determination that the HVAC installation is acceptable.

The reinspections in the electrical area included 293 cables (comprising 16 miles of cable), 1516 terminations, 13 equipment components, and two containment penetrations. There were only minor deviations from the requirements for this work. One questionable trend was identified, that of crimping on terminal lugs, which is resolved by the 100% coverage of terminations in system line-up testing by the Supply System. Aside from this trend, the electrical construction is acceptable.

Although the majority of electrical raceways and supports were installed prior to July, 1980, they were not reinspected in the QVP because they had not been final-inspected and accepted at that time. Inspection of conduits, trays, and supports are covered by current programs using procedures that were approved during the Restart Program.

In the area of instrumentation, 61 instrument racks, 251 local instruments, eight miles of tubing, and 4500 supports were reinspected as a part of the contractor's 100% as-built/reverification program. Deviations from the requirements for the work were few, but were corrected as part of the program. This 100% examination assures that installation work associated with instrumentation is acceptable.

The applicable portions of fire protection systems in the plant were also reinspected, including 400 conduit supports and 49 fire-extinguisher brackets. Only a few very minor discrepancies were identified in the reinspections, leading to the assessment that the work is acceptable.

Repeat nondestructive examination was performed for 60 radiographs, 60 penetrant tests, and 95 magnetic-particle tests. The NDE work was found to be acceptable. During the repeat examinations a welding problem was identified on a containment attachment, which is currently being addressed by the Project.

Long-lead procurement items were verified by reinspection of 87 equipment components, technical review of 155 procedures, industry validation of 35 vendors' qualifications and experience, and review of quality records for 49 contracts. Hardware furnished by these vendors was found satisfactory. The review of records led to identification of a generic testing deficiency associated with cranes and hoists, which is resolved by a 100% retest program.

Personnel qualifications of engineering, NDE, QC, and construction personnel were verified by acceptability of the work and associated records reviews. Qualifications of the personnel involved in the work were found acceptable.

Receiving inspection activities were found to be generally effective in identifying discrepant material, as verified by hardware reinspection of installed items and repeat receiving inspection of stored material.

Technical disposition of deficiency and design-change documents was verified by independent review of 807 documents for technical adequacy. All were found to be correct.

2.3 QVP/CAT Comparison

As the end of QVP activities approached, and the Project neared completion, the NRC Office of Inspection and Enforcement sent a Construction Appraisal Team (CAT) to assess the adequacy of safety-related construction at WNP-2. The CAT devoted some 2000 manhours of inspection effort at the plant to that end. A comparison of the CAT's inspection results

with those of the QVP was requested by NRC, Region V, to determine whether the CAT inspection undermined or confirmed the QVP results. The comparison was performed on reinspected items installed prior to July, 1980, and it was determined that where the same hardware items were inspected by both CAT and QVP, the results were identical. Where similar hardware components were inspected, the CAT inspections confirmed the findings of the QVP with the following exceptions:

- o Concrete - QVP verification of concrete construction in the plant was accomplished by technical review of requirements and records. CAT inspections included field tests for compressive strength and physical excavation of cast-in-place members to expose and check reinforcement. The results in each program have similar findings, and the QVP review shows that the Project identified and addressed deficiencies during installation. A separate report responding directly to the CAT inspection addresses the concrete issues.

- o Weld-O-Let Weld Size - Undersized welds for weld-o-let fittings were found in the CAT inspections but were not identified by the QVP. The Project has now reinspected all such fittings for weld size.

2.4 Conclusions

The NRC's 50.54(f) request directed the Supply System to respond with a plan to review completed safety-related work to determine whether the quality assurance program at WNP-2 was adequate to assure the work was properly performed.

The Supply System has completed its programs of review and reinspection to the depth necessary to respond to questions asked in the 50.54(f) request. These questions are repeated below with summary responses based on the culmination of these programs.

- o Were there cases where the required quality procedures and specifications were not applied to the work?

  The results of the QVP reinspections show that, although there were a few deficient areas and isolated deficiencies, the work is acceptable and, therefore, meets the requirements of the procedures and specifications. The reinspections were performed to current requirements to take advantage of the software improvements made in restarting the work in 1981. Review of a sample of procedures in place at the time of the work indicate those procedures would assure production of quality work, in spite of a few procedure discrepancies.

  The review of completed work (not already covered by special programs) generally shows that quality procedures were applied and resulted in acceptable construction. Two areas of pervasive deficiency were apparent: crane testing and undersized socket welds on small-bore flange fittings, which were resolved as discussed in Section 2.3.

- Were there instances in which improperly qualified personnel performed and inspected the work?

  QVP reviews show that there were instances in which improperly qualified personnel were involved in the work. The reviews also show that the Project's quality programs were effective in identifying those instances, in that the QVP detected only isolated occurrences of improperly qualified personnel being missed by past or current quality programs.

- Were receipt inspection requirements followed for contractor produced items and why weren't deficiencies detected during receipt inspection?

  Procedure deficiencies of a non-technical nature were identified for some contractors' receipt inspection activities. One contractor was found, by the quality program in effect at the time, to have significant problems with material segregation and storage. QVP reviews, along with other recent reviews performed by the Project, show that safety-related material in storage at the time of restart of construction meets the specified requirements. The hardware reinspections and record reviews conducted in the QVP have shown that material installed also meets the requirements.

- Were correct dispositions made for nonconformance reports, design changes, field change requests, and information requests?

  The results of technical reviews of documents which disseminated technical information, and of the procedures used to control them, show that these documents were dispositioned competently and acceptably by the A/E's engineers and the contractor's engineers.

- On the basis of review of existing records and a sampling of previously inspected work, are quality and test records associated with the work complete and accurate?

  The reviews and reinspections of thousands of hardware components show that the quality and test records accurately represent the adequacy of the installations in most cases. There were cases of inadequacy of records and cases of difference between the records and the installation. In those instances, corrective action was initiated to completely resolve the problems, and extended as necessary to address the generic implications.

The safety-related work completed at WNP-2 prior to July, 1980, has been verified by the Quality Verification Program. On the basis of the Program findings, the Supply System concludes that:

- The quality concerns resulting in the NRC's June, 1980, 50.54(f) request are based upon indications of a quality assurance program

breakdown because of: 1) poor performance by one mechanical subcontractor (Leckenby Company), 2) untimely response to NRC questions on construction quality, and 3) failure to limit the backlog of unresolved deficiencies.

Management improvements, coupled with the Quality Verification Program's reviews and reinspections, appropriate corrective actions by the Project, and other extensive special inspection programs, have resolved the quality concerns which brought about the NRC's 50.54(f) request.

- The major construction-related quality problems at WNP-2 had been identified by the Project prior to commencement of QVP reinspections. Special programs were established to resolve these problems, with the results that few major problems were identified by QVP reinspections and reviews.

- The safety-related work completed at WNP-2 prior to July, 1980, now meets the requirements for safe operation of the plant.

SECTION 3.0

HISTORY

A complete understanding of the QVP requires some knowledge of the background events leading to development of the program and its implementation. This section provides such a chronology of participants' actions ultimately leading to verification of the adequacy of hardware in the plant.

3.1 NRC Request and Supply System Response

The Director of the NRC's Office of Inspection and Enforcement (IE) said in his June 17, 1980, request regarding Quality Assurance[1] under 10CFR50.54(f), that the IE staff did not have sufficient information at the time to conclude that WNP-2 was being constructed in compliance with the construction permit. On the same date, he notified[2] the Supply System of a number of items not in compliance with conditions of the facility license, and imposed certain civil penalties.

The 50.54(f) request letter instructed the Supply System to submit a plan and schedule for reviewing completed safety-related work accomplished by contractors who did not have NRC reviewed quality assurance programs, to assure such work was properly performed.

On July 17, 1980, the Supply System responded[3] to the Commission's instructions and regulations with a plan and schedule which detailed specific commitments to review the completed safety-related work in the plant and issued SWO #9[4] to stop safety-related work until problems were resolved. The Supply System's review plan became known by the acronym RCSW (Reverification of Completed Safety-Related Work), and addressed review of the work by contracts: active site contracts, pre-purchase contracts, and already-closed site contracts. The review covered short term, intermediate, and continuing phases of evaluation, and was accomplished by three task forces:

- Task Force I, which was to expedite the resolution of an outstanding backlog of problems and concerns on the project.
- Task Force II, which was to verify that previously completed work is adequate.
- Task Force III, which was designed to assure that management systems used to control continuing work were adequate.

[1]Superscript numbers in parentheses correspond to items in Section 9.0, List of References

The work of Task Force II specifically became the RCSW Program, or "Re-verification Program" and the Supply System notified the NRC in its first bi-monthly progress report[5] that because of the enormity of this task, the work was being divided into two phases:

- o Phase I would cover review of contractors' procedures for control of on-going work, and verification of very-recent construction. (This activity became the Restart Program.)

- o Phase II would cover verification of safety-related work completed prior to the time work was stopped.

The second progress report[6] informed the NRC that Task Force II was again refocused to delete hardware reinspections from Phase I; that the verification of hardware would be completed at a later date; and that plans for this effort were being formulated and expected to be in place by February 1, 1981. The main thrust of Project activities at this point became the release of work for construction by commodities following completion of Task Force efforts, with the exception of Task Force II, Phase II. For example, late in January, 1981, repair of the girth weld on the Sacrificial Shield Wall was restarted.

Planning for the Task Force II, Phase II effort (which was to eventually become the QVP) began in earnest early in 1981 when management emphasis shifted to verification as restart reviews were being completed. Meanwhile, management improvements were being made which would strengthen the project's ability to complete the plant successfully. These points are discussed later in this section. For completeness of this historical account, some brief information about the Restart Program is provided immediately hereafter, as it related to the QVP.

3.2 Restart Program

A plan[7] listing all of the review actions required for the restart of safety-related construction stopped by SWO #9 was provided to the NRC with the Supply System's first progress report. These review actions included:

- o Listing of safety-related (QC I SC I and QC II SC I) contractor work activities.

- o Identification and resolution of the backlog of contractors' concerns which could affect restart (e.g. NCR dispositions, approved drawings, reviewed procedures, etc.).

- o Evaluation of contractors' then-current work and inspection controls to assure quality controls were effective:

  - Review of procedures for proper approval; incorporation of SAR, specification, code, and standard requirements; and qualification of welding and special processes.

- Review of personnel qualifications and training.

- Review of documentation to determine the then-current backlog, completeness, traceability, legibility, and adequacy of the contractors' reviews.

- Assessment and statusing of 50.55(e)s, Part 21s, NRC concerns, NCRs, CARs, audit findings, and deficiency trends.

o Independent review and assessment of the results of the above, culminating in an objective evaluation of the safety-significant work to be restarted, to assure that:

  - Minimal risk of quality problems would result from the resumption of work.

  - Reinspection of previously completed work would not be prevented.

  - Full compliance with the work requirements was achieved.

Upon satisfactory completion of the reviews of the Restart Program, each contractor was released to restart work by Project direction, under NRC observation. All contractors performing safety-related work were released, or conditionally-released, by mid-1981. A conditional release carried with it a commitment to complete a specific review activity, usually on only a small portion of the work. Only upon documented completion of such a commitment was the contractor unconditionally released for restart of construction.

The summary findings of the Restart Program, which could provide insight into potential areas where quality problems might exist, were used in planning the reinspections of the QVP, as discussed in Section 6.0.

3.3 Management System Improvements

In the same time period as the Restart Program was conducted, the Supply System was strengthening management of its projects. The Supply System decentralized the authority for each project so that more direct management attention could be provided at the sites for timely response to construction problems that arose. Program Directors were assigned at each project. Also, a Corporate Nuclear Safety Director was assigned to assist with the resolution of safety issues as they arose.

At the WNP-2 Project, the Bechtel Power Corporation (BPC) was engaged as the Construction Management and Construction Completion Contractor, which, in addition to bringing its experience and expertise to the Project, provided the opportunity to focus the Burns and Roe, Inc. efforts on the Architect/Engineer (A/E) Function. Burns and Roe (BRI) became responsible for only engineering and could concentrate on completing the design. A Richland office having full technical authority was established

by the A/E, which significantly improved the A/E's participation in resolution of field problems, responsiveness in resolving design problems, and technical interface with Supply System Engineering.

As Construction Completion Contractor, BPC assumed responsibility for the mechanical piping systems, following completion of the bulk construction by the major mechanical contractor. The mechanical contractor was responsible for installation of most of the plant's safety systems, and may have been largely responsible (through lack of control of a subcontractor) for the quality issues leading to the NRC's 50.54(f) request and work stoppage.

Bechtel continues in this construction-completion role today. As bulk construction is completed by the site contractors, the finish work in each system is accomplished by BPC to the point where each system is ready for "turnover" to the Supply System's Test and Startup (T&SU) organization for preoperational and acceptance testing. A Systems Completion Plan[8] outlining the verification activities to be accomplished on past work taken over by BPC during this phase of construction is part of the original QVP program description.

3.4 QVP Planning and Implementation

Early in 1981, with Restart Program reviews well on the way to completion, planning of the verification reinspections of hardware began. Project management review of each stage of development of the plan for this work was accomplished through detailed presentations and technical discussions and critiques. In May, 1981, the program was sufficiently scoped and defined for informal presentation and review with NRC Region V representatives. This program was titled "Quality Verification Program"[9] so that a clear distinction could be drawn between this and previous efforts called "Reverification" which did not include reviews of quality records and reinspection of hardware items. It is noted, however, that BPC's participation in the QVP is reported and referred to as "Reverification" because in its construction parlance, "verification" is accomplished while performing its normal quality assurance functions. For the practical purpose of understanding the many QVP reports, the terms are considered synonymous.

Having evolved from the planning effort, the QVP was established as a program which would address the adequacy of past work and its supporting documentation through an integrated arrangement of record reviews and hardware reinspections, utilizing resources of the Supply System, BPC, and the active contractors. After a series of presentations and reviews conducted throughout its development, the QVP was approved by WNP-2 Project management in June, 1981, and inaugurated by issuance of an instruction manual at an indoctrination presentation to key managers and Program participants. Personnel training and contractor indoctrination was accomplished immediately thereafter, and performance of the review activities by the participants followed. Procedures[10] were prepared for performing the work in this Program, and all participating contractors were required to have approved reverification plans in place prior to commencement of reviews and reinspections.

While a more complete description of the provisions of the QVP is presented in Section 4.0, the following information is provided to identify the major participants:

- o Program Management

  The Supply System established an independent QVP office attached to its Construction Management Department to manage and report verification activity. This office, under a QVP Manager, was responsible for directing and monitoring the efforts of participants and reporting to Project management in frequent reports and presentations, and reporting to the NRC through the Program Director's bi-monthly progress reports.

- o Systems Completion

  This element of the QVP was established to verify the work of active site contracts and was accomplished by the Bechtel Reverification Group (BRG). The name of this task is derived from BPC's systems completion responsibility. The BRG managed the construction contractor participation in the program, performed the reviews and reinspections of the former mechanical contractor's work, and regularly reported to the Supply System.

- o Prepurchase and Inactive (PP&IA) Contracts

  This element of the QVP addresses the verification of work performed by closed site contracts and prepurchase contracts, and was accomplished by the Project QA organization. Verifying these contracts by record review and contract history review was nearly completed in early 1983, when the NRC raised questions on the ability of such reviews to provide adequate confidence of hardware quality, compared to that which can be achieved by sample reinspection. Additional review of the work accomplished in these contracts, including hardware reinspection, was performed by BPC forces in mid-1983.

- o Special Tasks

  This element of the QVP was established to address issues not logically covered above, and was accomplished by QVP office forces. There are six issues; three were originally committed and answered specific questions of the NRC's 50.54(f) request, and three were added during the course of the program.

QVP review and reinspection activities commenced late in 1981 and were completed by mid-1983. Technical analysis of results, as well as evaluation of deficiencies identified during the course of the work, was performed by the A/E, with assistance and consultation by BPC, the Supply System and others. This analysis of results and report preparation got underway in early 1982, and is now complete.

3.5 Audits

Beginning with the Project management reviews of QVP planning, this Program and its participants have been repeatedly scrutinized by Supply System management and quality assurance organizations until completion of the Program, including their review and acceptance of this report.

Thirteen formal audits of this Program or its activities were conducted during the course of the work, including thorough management assessment and independent consultant evaluation of the Program philosophy and methods. Seventy-five surveillances by QA/QC organizations verify that review activities met requirements. Periodic presentations were required by Project management to assure that commitments were met and the Program continued to meet its objectives.

The NRC's regional office sent a team composed of five senior staff members to the Project site in February 1983, to evaluate performance and results of the QVP. Additional work was committed to resolve questions arising from this evaluation.

The above audits and evaluations of this Program are more fully discussed in Section 5.0.

3.6 Reporting to the NRC

In its response to the NRC's 50.54(f) request, the Supply System stated that reports of the verification activities would be provided to the Region V office at two-month intervals. These bi-monthly progress reports were continued until the eleventh report covering May and June 1982, when, by agreement with the Regional Administrator, a quarterly reporting interval began.

The Supply System's reports summarize the progress and results of the verification activities and generally kept the regional office apprised of quality issues associated with verification of past work. These reports do not address construction in progress.

Periodic presentations were made to the Region V staff during the course of the QVP, usually as a part of Project meetings. During the planning activity, in April 1981, the Program Director addressed the QVP in a meeting at Walnut Creek. In subsequent meetings (which included QVP as an agenda item) the QVP Manager presented timely information of Program interest.

A more complete summary of Supply System/Region V interactions is provided by the following chronological listing of major events associated with the QVP. NRC involvement is discussed further in Section 5.0.

06/17/80 10CFR50.54(f) Request Regarding Quality Assurance, to NO Strand, WPPSS, from Victor Stello, Jr., NRC

07/17/80 Supply System Response, Notice of Violation & Additional Information 10CFR50.54(f), to Victor Stello, Jr., NRC, from NO Strand, WPPSS

07/31/80 WNP-2 Project Restart Plan approved by Supply System

10/16/80 First Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RL Ferguson, WPPSS

11/12/80 WNP-2 Management System Description, to RH Engelken, NRC, from RG Matlock, WPPSS

12/29/80 Second Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

01/23/81 WNP-2-WBG-215-F-81-0183, "Release of Sacrificial Shield Wall Girth Weld Repair", to PJ Garcia, WBG, from GI Wells, WPPSS

03/12/81 Third Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS - QVP Planning Under Way

05/15/81 Fourth Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

06/19/81 Quality Verification Program Begins: Presentations, Indoctrinations, Procedures

07/01/81 Fifth Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

09/04/81 Sixth Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

11/06/81 NRC Region V Meeting (Walnut Creek, CA) Project Status Review, QVP Presentation, RG Matlock, et al

11/19/81 Seventh Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS - QVP Reinspection Under Way

01/28/82 Eighth Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

03/26/82 Ninth Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

06/10/82 Tenth Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

08/09/82 Eleventh Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

10/19/82 Twelfth Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

01/14/83 NRC Region V Meeting (Walnut Creek, CA) Project Construction Status Review, QVP Presentation, RG Matlock, et al

01/24/83 Corporate Licensing & Assurance Audit of QVP, Audit 83-242, conducted 01/24-31/83

01/27/83 Thirteenth Progress Report - 10CFR50.54(f), to RH Engelken, NRC, from RG Matlock, WPPSS

02/15/83 Introductory Presentation to NRC Region V Task Team, Inspection of QVP at WNP-2, conducted 02/15-18/83

03/17/83 NRC Region V Meeting (WNP-2), Task Team Findings on QVP

03/30/83 NRC Region V Meeting (Walnut Creek, CA) Project Status Review, including QVP, RG Matlock, et al

04/18/83 Transmittal of Commitment Summary in regard to NRC's 50.54(f) Request dated 06/17/80. Summary dated 04/01/83

04/26/83 Fourteenth Progress Report - 10CFR50.54(f), to JB Martin, NRC, from CS Carlisle, WPPSS

05/16/83 NRC Construction Assessment Team (CAT) Inspection of WNP-2, conducted 05/16-27/83 and 06/07-17/83

06/07/83 NRC Region V Meeting (Walnut Creek, CA), Project Status Review, QVP Presentation, Detailed Work Discussion, DW Mazur, CS Carlisle, et al

06/21/83 NRC Region V Meeting (WNP-2), QVP Presentation, DW Mazur, CS Carlisle, et al

06/22/83 NRC CAT Inspection Exit Meeting

SECTION 4.0

PROGRAM DESCRIPTION

The basic program to accomplish the reviews and reinspections of hardware at WNP-2 is described in this section. This description includes an overview of the major tasks/elements of the QVP, and the procedures and instructions used by the participants. It also identifies the contracts covered by the reviews and compares the reviews accomplished with the Supply System's original commitments to the NRC.

4.1 Scope

The QVP is the last remaining element of the program initiated in July, 1980, following the commitments made by the Supply System in response to the NRC's 50.54(f) letter. The scope of the program is the performance of those activities necessary to verify the adequacy of safety-related work in the WNP-2 plant completed prior to July, 1980. For the purpose of QVP, safety-related work is defined as any work which is designated by the Project as QC I or QC II SC I. This work is all that could be considered to be safety-related. A much smaller population of items can be considered critical to the safe operation of the plant; however, the definition of "critical" is subject to some engineering judgement. The inclusion of all QC I and QC II SC I hardware in the QVP is a conservative approach to verifying the adequacy of safety-related hardware and installations in the plant.

The verification reinspections conducted in this Program were accomplished primarily by complete visual techniques. There are exceptions, however, where additional physical testing or destructive work was performed. In each such case, the benefits of more complete information were weighed against the consequences of destroying completed work.

The QVP serves to assure the adequacy of construction at WNP-2 prior to July, 1980. The work performed after July, 1980, is outside the QVP scope because it has been performed under an improved management system and QA program. This is described in Section 6.0. The combination of the QVP to verify past work, and the improved QA programs to control new work, serves to assure the adequacy of all the work performed at WNP-2 during the entire construction period.

The QVP consists of two types of inspection/review activities. The first type is the direct Program activity. This activity is divided into three major elements:

- Active Contracts
- Prepurchase and Inactive Contracts
- Special Tasks

These three elements of the direct portion of the QVP are described in Sections 4.2, 4.3 and 4.4. The second type of inspection/review activity is the indirect programs which are referred to as "related programs" and are described in Section 4.5. These programs were performed outside the formal QVP organizational structure, but were evaluated to determine compatibility with QVP objectives.

A diagrammatic representation of how all the above programs combine to assure the adequacy of WNP-2 is shown in Figure 4-1.

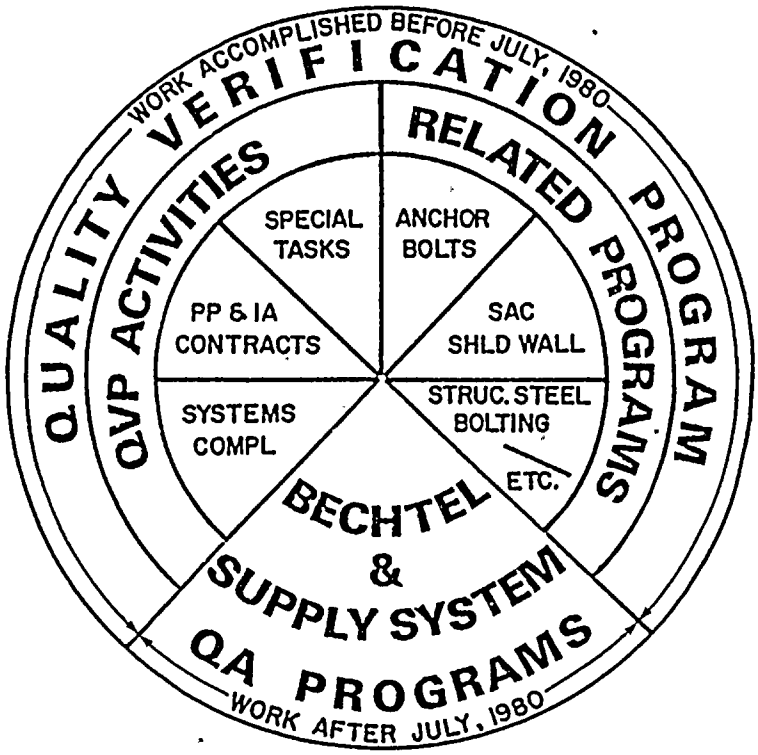


Figure 4-1

4.1.1 Summary of Commitments

A number of commitments were made to the NRC by the Supply System in the response to the NRC's 50.54(f) letter, as discussed in Section 3.0. The Project initiated three task forces to perform these committed actions:

- Task Force I - Reduce Problem Backlog
- Task Force II - Reverification of Completed Safety-Related Work
  - Phase 1 - Restart
  - Phase 2 - QVP
- Task Force III - Management System Improvements

The above commitments have been uniquely identified in a document entitled Summary of Commitments. This document generally describes the activity which responds to each commitment and is included as Attachment 4-1.

4.1.2 General Instructions

The instructions for Task Force II are included in the Reverification of Completed Safety-Related Work (RCSW) Manual.(11) Volumes I and II of the RCSW Manual contain the instructions for the Restart Program (Phase 1 of RCSW). The Restart Program for each contractor has been reviewed by the NRC and will not be discussed further.

The general instructions for the QVP are contained in Volume III of the RCSW Manual. These Quality Verification Instructions (QVI's) are described briefly below:

QVI-01 - Quality Verification Program

This instruction identifies the activities necessary to verify the adequacy of safety-related work in the WNP-2 plant completed prior to July, 1980. These activities comprise the Program implemented by the WNP-2 Project. The Supply System's Construction Management organization is responsible for this Program.

QVI-02 - Quality Verification Organization and Functional Responsibilities

This instruction describes the organization and functional responsibilities for fulfilling the requirements of the QVP. The functions of organizations performing activities in this Program are established in this instruction.

QVI-03 - Quality Verification Program Accountability

This instruction establishes WNP-2 Project organizational responsibility for the activities necessary to implement the QVP. It is used by Project participants to identify overall scope of their activities, and authorizes them to proceed with the Program.

QVI-04 - Deficiency Document Review

This instruction describes the process for performing reviews of deficiency documents to establish whether or not the dispositions of nonconformances, design changes, field change requests, and information requests, were technically correct.

QVI-05 - Evaluating Special Reviews for Quality Verification Program Credit

This is an instruction for evaluating special inspections or reviews performed by Project organizations or site contractors to correct identified deficiencies. The objective of this evaluation is to determine whether or not those inspections or reviews meet the objectives of the QVP and if so, document the results and acknowledge credit.

QVI-06 - Prepurchase and Inactive Site Contracts Evaluation, and Selection for Reinspection

This instruction describes the methods utilized to evaluate QC I and QC II SC I prepurchase and inactive site contracts to determine the need for verification reinspection.

QVI-07 - Active Site Contracts Evaluation, and Selection for Reinspection

This instruction describes the methods utilized to record the decision not to perform quality verification reinspection on QC I and QC II SC I active site contracts.

QVI-08 - Reverification Inspection Team Concept

This instruction describes the team-concept method to be used for verification reinspections of hardware at WNP-2. The team-concept method encompasses documenting and resolving discrepancies in the field. This QVI is applicable to reinspections for those contracts determined on a case basis by the Supply System QVP Manager.

QVI-09 - Special Structural Steel Reinspection Criteria

This instruction describes the criteria to be used to determine the significance of discrepancies discovered during the verification reinspections of structural steel welding at WNP-2.

QVI-08 and -09 were mainly used for the reinspection of hardware installed by contract 215, but were also used for reinspection of piping supports installed by contract 233, under

the special PP&IA program. A description of the development of these two instructions is included in the Contract 215 Reverification Report (Vol. IV, Book 3).

4.1.3 Contract Applicability

The construction of WNP-2 comprises some 200 contracts. Of these, 67 contain safety-related work that was accomplished prior to July, 1980. For the purpose of the QVP, these contracts can be categorized as one of the following:

- Active Contract - a contract which installed QC I or QC II SC I hardware prior to July, 1980, and was restarted in 1981.
- Inactive Contract - a contract which installed QC I or QC II SC I hardware prior to July, 1980, and was either closed prior to Restart or realigned at the time of the Restart Program.
- Prepurchase Contract - a vendor supplying QC I or QC II SC I hardware to the Supply System prior to July, 1980.

A list of all contracts which contain safety-related work completed prior to July, 1980, is provided in Figure 4-2. This figure identifies the contracts as active, inactive or prepurchase contracts, and their respective elements of the QVP. The list in Figure 4-2 results from an initial list committed by the Supply System's 50.54(f) response letter, plus others subsequently identified. Four of the original contracts listed were found to have not actually furnished safety-related hardware; these are also identified in the figure.

The scope of work within the QVP can be divided into a number of major activities. Figure 4-3, Quality Verification Matrix, shows a method of dividing this work (by critical construction activities), and identifies the approximate work status as of June, 1980; the contracts responsible for the work; and the direct and indirect elements of the Program which serve to assure the adequacy of the plant.

4.2 Active Contracts

4.2.1 Contract Applicability

The Construction Completion Contractor, BPC, was responsible under the Systems Completion element of the QVP for the reinspection of nine active site contractors. These contractors are identified in Figure 4-2.

Contract No.	Contractor	Description of Contract Work	Program Element
2	General Electric	Nuclear Steam Supply	PP
7	Battelle Northwest	Meteorological Study	PP
17	Pathway Bellows	Refueling Bellows	PP
18	Farr Company	Standby Gas Treatment & HEPA Filters	PP
22A	Joy Manufacturing	HVAC Fans	PP
23	Byron Jackson	Standby Service Water Pumps	PP
24	HUICO, Inc.	Shop Fabricated Tanks	PP
28	Buffalo Forge	HVAC Fans	PP
31A	Whiting	Overhead Building Cranes	PP
32CD	Clayton	Jib Cranes	PP
35A	Crane Co.	Pumps and Motors	PP
36	Acme Concrete	Production & Delivery of Concrete	PP
41A	Velan	Nuclear Valves	PP
41B	Anchor/Darling	Nuclear Valves	PP
42A	Fisher Controls	Control Valves	PP
42B*	Fisher Controls	Control Valves	PP
47A	Westinghouse	Switchgear	PP
48	Westinghouse	480 Volt Substation	PP
49	I T E Imperial	Motor Control Centers	PP
51A	ESB, Inc.	Batteries	PP
51B	Power Conversion	Battery Chargers	PP
52*	Solid State Controls	Uninterruptible Power Supply	PP
53	Stewart Stevenson	Diesel Generators	PP
55	Westinghouse	Containment Electrical Penetrations	PP
57	Kinemetrics	Accelerometers	PP
58	Jelco	Instrument Racks	PP
59	General Electric	Instrument & Control Boards	PP
60A*	Sentry Equipment Corp.	Sampling & Analysis Systems	PP
62A	Okonite	Electrical Cable	PP
62B	Raychem	Electrical Cable	PP
62C	Rockbestos	Electrical Cable	PP
67	H K Porter	Air Handling Units	PP
68	BIF	Isolation Valves	PP
69	Velan	Check Valves	PP
71	Air Products & Chemicals	Hydrogen Recombiner	PP
73	Elgar	15KVA Inverters	PP
90	Leckenby	Pipe Whip Restraints	PP
92A	Ingersoll Rand	Sampling Probes	PP
92B	Kaman Sciences	Radiation Monitoring	PP
93	GPE Controls	Vacuum Breaker Valves	PP
94	B F Shaw	MSRV Discharge	PP
205	Stewart Erikson	Reactor Building Substructure	IA
206	Bovee Crail	General Construction	IA
206A	Peter Kiewit Sons	Architectural Construction	IA
207	Pittsburgh-DesMoines	Structural Steel	IA
209	Rigging International	Rigging of Reactor Pressure Vessel	IA
210	Peter Kiewit Sons	Architectural Construction	IA
213	Pittsburgh-DesMoines	Primary Containment Vessel	IA
213A	Pittsburgh-DesMoines	Containment Modifications	A
215	WSH/Boecon/GERI	Mechanical	A
216	Waldinger	HVAC/Plumbing	A
217	Sentry	Fire Protection	A
218	Fischbach/Lord	Electrical	A
219	OB cannon	Coatings - Drywell	A
220	Johnson Controls	Instrumentation & Controls	A
221	Pacific Testing Lab.	Construction Testing	IA
221A	Pacific Testing Lab.	Construction Testing	A
225	McMillan Brothers	Make-up Water Pumphouse	IA
226	Sime	Reactor Building Excavation	IA
233	B F Shaw	Spray Pond Alteration	IA
234	OB Cannon	Coatings - Wetwell	A
235	GE I&SE	Reactor Instrument Modifications	IA
6426	Wright-Schuchart-Harbor	Interim General Construction	IA
6809	Bethlehem	Reinforcing Steel	PP
6904	Welk Brothers	Annular Sleeves	PP
6905*	Welk Brothers	Skimmer Surge Tank	PP
6912	Pybus	Structural Steel	PP
6917	Texas Pipe	Pipe Soools	PP
7012	Brand Industrial	Form Separation System	PP
7426	Northwest Copper	Exhaust Duct	PP
12409	Buenler Nuclear Products	BWR High-Density Spent Fuel Racks	PP

A = Active, IA = Inactive, PP = Prepurchase
* = Review identified no safety related hardware

Figure 4-2

ITEM	CRITICAL ACTIVITY	WORK COMPL. PRIOR TO 6/80	CONTRACTS* PERFORMING WORK	QUALITY VERIFICATION ACTIONS
1	Soil Work	100%	206,206A,205,210,6426, 226,225	2,E,T
			218	E
			215	E,M
2	Concrete/Rebar/Embeds (Including Pipe)	95%	205,206,206A,6426,210, 225,233	2,3
			215	3,A,M
			216,218,220	3,A
3	Containment	90%	213	2,V
			213A	1
4	Structural Steel	90%	206,206A, 207,210	2,F
			215	1,A,B,F,M,N,X
5	Equipment Installation	85%	209	2,T
			216,218,220	1,J,O
			215	J,M,O,S
			207,235	2,J,O
6	Piping/Valves	85%	205,206,206A,213,233, 6426	2,J
			213A,220	1,J,W
			215	1,I,J,M,P,W
7	Hangers	80%	213,233	2,J
			213A,216,217,220	1
			215	1,G,H,I,M,Q
8	Concrete Inserts/Anchor Bolts	80%	206,206A,210,233,6426	2,C
			213A,216,217,218,220	C
			215	1,C,M
9	Cable Tray/Conduit/ Supports	80%	218(Installed, not QC-Accepted)	N/A
			217	1,R
10	Cable/Terminations	70%	218	1,J
11	HVAC Ducting/Supports	50%	216	1
12	Tubing/Supports/ Instrumentation	60%	220	1,J,O
13	Cathodic Protection/ Grounding	90%	206,206A,210,6426	2
			215	M
			218(Installed, not QC-Accepted)	N/A
14	Insulation	60%	215	M
15	Coatings	50%	213,219,234	L
16	NDE	75%	Prepurchase and Inactive Contracts	2,3
			Active Site Contracts	1,3
			215	1,D,K,M
17	Procurement	90%	Supply System and Inactive Contracts	2
			Active Site Contracts	1

*Major contracts performing the critical activity are underlined.

DIRECT VERIFICATION PROGRAMS

1 - QVP Active Contracts
2 - QVP Prepurchased & Inactive Contracts
3 - QVP Special Tasks

INDIRECT PROGRAMS EVALUATED BY QVP

A - Sacrificial Shield Wall
B - Pipe Whip Restraints Repair
C - Concrete Expansion Anchor Bolts(79-02)
D - Weld Radiograph Review
E - Soil Backfill Testing
F - Structural Steel Bolting
G - Lubrite Plate Inspection
H - Sway Brace Bracket Inspection (Pipe Support)
I - Pipe & Hanger As-Built
J - Test & Start-Up Component Inspection
K - Pre Service Inspection
L - Coating Rework
M - WBG Documentation Completion
N - 541' Steel Fabrication Program
O - Equipment Qualification
P - Arc Strike Inspection
Q - Hanger Balancing
R - Fire Protection Raceway Support Welds
S - BPC Equipment Inspection
T - RPV Set Task Force
U - Building Settlement
V - 213 Documentation Task Force
W - Weld-o-let Inspection
X - Leckenby Components Inspection

WNP-2 QUALITY VERIFICATION MATRIX
SAFETY-RELATED WORK

Figure 4-3

Contract 221A performed construction testing services only, and did not install hardware at WNP-2. An evaluation of this contract was performed in accordance with instruction QVI-07 and is reported in Volume IV, Book 1. The result of this evaluation is that reinspection of contract 221A work is inappropriate.

Contract 210A, Peter Kiewit Sons, for general construction is not listed in Figure 4-2, but was initially in the scope of the Program. However, it was subsequently determined that this contract did not perform any work prior to July, 1980, and therefore, is outside the scope of the QVP.

4.2.2 Program Content

The Systems Completion element of the QVP consists of reinspection of a sample of work completed prior to July, 1980, and review of the documentation associated with the sample. The reinspection sample, when compared with its documentation, validates the quality records for the entire population of hardware. The inspections were performed by BPC and the contractors, as discussed in Section 5.0.

The results of the reinspections are analyzed to determine the nature and number of deficiencies. Following this analysis, a decision is made: either further reinspection is required, or a positive statement is made about the remaining hardware, based upon the results of the sample reinspection. The methodology for selecting samples, performing inspections and evaluating results is discussed further in Section 6.0.

4.2.3 Plans and Procedures

The verification of active contractors was performed in accordance with BPC Procedure SWP/P-G-14, "Reverification Coordination". This procedure directs the interactions of BPC Construction Management with the Supply System and contractors to meet the requirements of the QVP. A copy of this procedure and BPC's plan for verification are covered in Volume IV, Book 1.

The contractors' plans and procedures used for the verification activities are included in the respective contract reverification reports.

4.3 Prepurchase and Inactive Contracts

4.3.1 Contract Applicability

Forty-nine prepurchase contracts and 13 inactive site contracts comprise the scope of the PP&IA element of the QVP. These contracts are identified in Figure 4-2.

4.3.2 Program Content

The PP&IA element of the QVP is composed of two phases of work. First, the reviews outlined in the original program description and second, the special examination conducted in response to questions raised by the Region V Task Team in February, 1983(12). These phases of PP&IA contract verification are covered separately below.

4.3.2.1 First Phase, Project QA Review

Documentation reviews of the quality records for safety-related hardware are accomplished to establish whether or not the records meet specification, code, and FSAR requirements. These reviews are conducted by the Project QA organization (PQA) in accordance with established procedures.

A review of the quality history of each contract is then performed by a cooperative effort between PQA and the QVP office to determine areas of questionable performance which could need further examination or inspection. This review consists of at least the following:

- o The collective results of document reviews
- o Past vendor surveillances
- o Past NRC-identified problems
- o Equipment operating history, if any
- o The collective results of NCRs and CARs

The results of the above are considered to identify the need for hardware inspection. If such a need is identified, then hands-on hardware inspection is performed by the appropriate Project organization in much the same manner as discussed in paragraph 4.2.2.

4.3.2.2 Second Phase, Special PP&IA Review

All 62 PP&IA contracts are candidates for review in this phase of the program, to confirm the effectiveness of the first phase of review. Each of the 62 contracts is evaluated against four criteria to determine which contracts warrant application of the full review process:

- o Did the contractor have an NRC-reviewed QA program? If so, no further review is necessary as such contracts are outside the scope of the 50.54(f) requests.

- Did the contractor furnish critical or unique components? If not, drop from further review.

- Can the work or component(s) be meaningfully reinspected? If not, develop special plan for verification.

- Is the work adequately verified by other related reinspection programs? If so, drop from further review.

The full review process for contracts selected for further review has three parts:

- Performance History Review

  A determination of the contractor's qualifications as a contractor/supplier to the nuclear industry is accomplished by reviewing his history of performance on other similar projects prior to and during his work at WNP-2.

- Procedure Review

  A review for technical adequacy of the contractor's procedures is performed. Procedures are selected from among those the contractor was required to submit for A/E approval, and are those which are particularly critical to the work processes.

- Record Review and Hardware Reinspection

  A review of quality documentation and a visual reinspection of a representative sample of the contractor's work is performed.

Following the above steps, results of reviews and reinspections are analyzed for each contract to determine if they are adequate to verify acceptability of the hardware or if deficiencies identified indicate that additional reinspection of a larger sample should be performed. Inspections are performed and results are analyzed in the manner discussed in Paragraph 4.2.2.

4.4 Special Tasks

The Special Tasks element of the QVP was initially instigated to address three specific questions contained in the NRC's 50.54(f) letter:

- "Were correct dispositions made for nonconformances, design changes, field change requests, and information requests?

- Were there instances in which improperly qualified personnel performed and inspected the work?

- Were receipt inspection requirements followed for contractor produced items and why weren't deficencies detected during receipt inspection?"

The Special Tasks element of the Program was designed to address these issues because they did not readily fall into the scope of the contract inspection elements of the QVP discussed in Sections 4.2 and 4.3. During the period the QVP was being implemented, three more tasks were incorporated in this element. These three tasks address grout, concrete and nondestructive examination (NDE). The following sections describe the six "special tasks".

4.4.1 Deficiency Document Review

The Deficiency Document Review (DDR) was established to determine whether the dispositions of nonconformances, design changes, field change requests, and information requests were correct, and is divided into two parts:

- Site documentation, subject to disposition by BRI.

- Contractors' internal documentation, dispositioned by contractors' personnel or BRI.

An examination of the procedures governing the control of each document identified for review under this program is conducted to determine that each disposition was subject to sufficient scrutiny to reasonably assure its adequacy. Where it can be demonstrated that an independent review for technical adequacy of deficiency-document dispositions or design-change information was conducted, an investigation is made to determine that surveillances on these reviews were performed to assure adherence to procedures, and to confirm that corrective action was taken where required. Where previous adequate independent reviews cannot be established, or to confirm the adequacy of previous, procedurally-conducted reviews, a random 10% sample of selected documents is reviewed for technical adequacy.

4.4.2 Personnel Qualifications Review

The Personnel Qualifications Review (PQR) was established to ascertain that properly qualified personnel performed and inspected the work or where qualifications were suspect, appropriate corrective action was taken. The review is divided into two parts:

- Examination of A/E engineering personnel competency.

- Examination of contractors' engineering and non-engineering personnel's work adequacy.

The engineering portion of this review consists of assessment of A/E and contractors' engineers by analyzing the results of the DDR. The reviews conducted there are qualitatively analyzed and researched for performance trends.

The second part of this review comprises an analysis of the results of reinspections in other elements of the QVP, previous corrective actions, PQA surveillances, and special reviews to determine the adequacy of the work and thereby the competence of non-engineering personnel.

4.4.3 Receiving Inspection Review

The Receiving Inspection Review (RIR) was established to provide insight into receiving inspection practices by assuring acceptability of material in the plant, both stored and installed. This task does not wholly verify contractors' past receiving inspection practices and inspection personnel qualifications.

To assure stored material acceptability, analysis of repeat receiving inspections performed on material in storage at the time of the stopwork is performed.

The acceptability of the installed items is verified by review and analysis of hardware reinspection and review of documentation accomplished in other elements of the QVP.

These actions are not directly responsive to the NRC's question on receiving inspection in its 50.54(f) request, because at the time of the stopwork, the plant was approximately 85% complete, and it was considered of less value to assess contractors' past receiving inspection programs than to provide assurance that the material in the plant was acceptable. The RIR task analyzed the information resulting from the above actions to contribute to an assessment of past receiving inspections and confirm material acceptability.

4.4.4 Grout Evaluation

The WNP-2 Project identified a lack of material traceability and quality control for the installation of sand-cement grout in contract 215. A field testing program was initiated to determine suitability of the installations, whereby cores of in-place grout are recovered, tested for compressive strength, and the test results compared with specification requirements. This program was implemented and expanded in three phases:

- o Phase I, contract 215 sand-cement grout
- o Phase II, all contracts, all grout types
- o Phase III, expanded sample from Phase II.

The results are analyzed to determine the adequacy of original installations or the need for replacement.

4.4.5 Cast-In-Place Concrete Evaluation

This task was initiated because meaningful reinspection of concrete and reinforcing steel cannot be accomplished without destructive techniques. A special technical review was conducted to collect quality-related information on concrete construction in the plant and provide a comprehensive assessment of its structural integrity.

The evaluation of concrete work at WNP-2 includes a technical review of applicable contract specifications and procedures, quality records, related programs, and other investigations. A determination of the adequacy of concrete work is made on the basis of these review results and takes into account the Project's resolution of the NRC's Construction Appraisal Team inspection findings.

4.4.6 NDE Verification

This task was initiated late in the Program and responds to an issue raised in an NRC review of the QVP. It was established to verify that NDE performed on the Project prior to July, 1980, is of satisfactory quality to conform with requirements. The task includes repeat NDE on a sample of previously examined hardware and an evaluation of other NDE programs.

4.5 Special Related Programs

A number of special reinspection programs have been conducted at WNP-2 for a variety of reasons:

- o Project response to IE Bulletin
- o Project response to a recognized or potential deficiency
- o Project management attention to a critical activity

These special programs were generally performed on 100% of the hardware under investigation, although some of the programs were performed on a sample basis. A list of special programs related to quality verification is provided in Figure 4-4. This figure identifies each program with a brief statement about its content. Each of these programs is either reported within the context of the QVP or an evaluation of the special program is included in a QVP report.

IDENT	Name	Description	Where Reported	
			Vol. No.	Bk. No.
A	SACRIFICIAL SHIELD WALL EVALUATION	100% reinspection of accessible welds and other (contract 215)	IV	3
B	PIPE WHIP RESTRAINTS REPAIR PROGRAM	100% rework/reinspection (90, 215)	II	2
C	CONCRETE EXPANSION ANCHOR BOLT EVAL. (79-02)	Sample inspection and retorque (All)	IV	1
D	WELD RADIOGRAPH REVIEW	Reread all ASME radiographs (215)	III	7
E	SOIL BACKFILL TESTING PROGRAM	Sample density testing, assessment (All)	II	4
F	STRUCTURAL STEEL BOLTING	Sample retorque (215, 206, 206A, 210)	IV	3
G	LUBRITE PLATE INSPECTION	100% reinspection (215)	IV	3
H	SWAY-STRUT ASSEMBLY INSPECTION PROGRAM	100% field check (215)	IV	3
I	PIPE & HANGER AS-BUILT	100% field check QC I hangers, S. B. piping (215)	IV	3
J	TEST & STARTUP COMPONENT INSPECTION	Open-and-inspect mechanical & electrical equipment (All)	IV	3, 10
K	PRE SERVICE INSPECTION	Repeat examination of ASME welds (215)	III	7
L	COATING REWORK	Reinspection of QC I coatings (219, 234)	IV	12, 14
M	WBG DOCUMENTATION COMPLETION	Review quality records (215)	IV	7
N	541' STEEL FABRICATION PROGRAM	100% reinspection & rework 541' steel (215)	IV	6
O	EQUIPMENT QUALIFICATION	Field check critical equipment mounting (All)	IV	3
P	ARC STRIKE INSPECTION	100% piping reinspection (215)	IV	3
Q	HANGER BALANCING	Check and adjust hangers (215)	IV	3
R	FPS RACEWAY SUPPORT WELDS	100% reinspection of welds in fire protection raceways (217)	IV	9
S	BPC EQUIPMENT INSPECTION	Document review, field check equipment (215)	IV	3
T	RPV SET TASK FORCE	Management review of RPV installation (209)	II	4
U	BUILDING SETTLEMENT	Monitoring program (205)	II	4
V	213 DOCUMENTATION TASK FORCE	Management review of quality records (213)	II	4
W	WELD-O-LET INSPECTION	100% reinspection for weld size (215, 220)	IV	3
X	LECKENBY-FABRICATED COMPONENTS INSPECTION	100% Reinspection (215)	IV	3

SPECIAL RELATED PROGRAMS

Figure 4-4

COMMITMENT SUMMARY[1]

Washington Public Power Supply System
Letter No. GO2-80-153, 7/17/80

(In Response to USNRC Letter No. EA-80-153, 6/17/80, 10CFR 50.54(f) Request)

COMMITMENT STATEMENTS	DISCUSSION
Phase I - Short Term	
o Management resources have been allocated to three Task Forces to develop plans to a) expedite resolution of outstanding problem backlog at WNP-2, b) verify adequacy of prior work, and c) assure the management systems used to control continuing work are adequate.	a) Task Force I - Problem Backlog: Plans for reducing the backlog of problems were initially outlined in Letter GO2-80-259 to Region V, 11/12/80. Activities to carry out the plans have varied as necessary to respond to ongoing Project developments. Project instructions were issued for specific actions to be accomplished by participants. b) Task Force II - Reverification: This Task Force effort was separated into two phases: Task Force II, Phase I - The Restart Program reviewed procedures to assure that work could be resumed with confidence that past problems would not recur. Task Force II, Phase II - The Quality Verification Program was initiated in June 1981 to verify work completed prior to June, 1980. Reviews and reinspections were carried out through 1982. Results are now being analyzed.

Attachment 4-1

[1] Supersedes the "COMPARISON" of commitments to Quality Verification Program activities, dated July 1982.

c) Task Force III - Management System Improvements:

Management system improvements were addressed during the restart period. Measures to assure adequate management controls would be in place were initially outlined in Letter G02-80-259. These were further revised and improved by a new Construction Management Contractor being engaged in 1981 to carry out completion of the Project. The mechanical contract work was assumed by a new Systems Completion Contractor.

- Each Task Force has been directed to review standards of performance and detailed controls for work methods. Recommendations for improvements will be a principal output of the Task Force efforts.

Controls for work methods were checked as a part of the Restart procedures reviews, in accordance with project instructions developed for that purpose. The actual reduction of backlogs of problems provides evidence that recommended inprovements were carried out.

- A requirement for approval by the Assistant Director of Technology prior to resumption of installation activities was placed on the WNP-2 major mechanical contract on June 19 pending additional owner evaluation of work methods, controls, and establishment of standards of performance. Key personnel were assigned to perform the evaluation.

This commitment was revised to require Program Director approval (IOM F-80-5928, 11/30/80) instead of the Assistant Director of Technology. Prior to each contractor's restart of construction, the activities leading to restart were reviewed by Task Force personnel, Project Quality Assurance, and in some cases, an independent review by corporate personnel was performed. Restart occurred on a commodity basis prior to unconditional release of the contractor's work. Shortly thereafter, however, the mechanical work was placed in the scope of WNP-2's Systems Completion Contractor.

- A plan has been established to perform summary evaluations of other contractors' current work controls at WNP-2 to reassure ourselves that quality controls are effective and that resumption of work following the current labor related work stoppage would have minimal risk of quality problems and would not preclude inspection of past work.

  Accordingly, on July 17, we directed all contractors doing safety-significant installation work at the site to stop work until these reviews are completed.

Review of work controls for contractors performing safety-related construction work at WNP-2 was accomplished by the Task Forces associated with the Restart Program.

These contractors were individually released to resume construction by approval of the Program Director following satisfactory completion of reviews and corrective actions. Actual restarts were accomplished in early 1981.

Phase II - Intermediate

This phase will last until January 1, 1981, and will include:

- Completion of all reviews of safety-related hardware and records associated with those cases where past quality problems occurred and in those cases where timely review is essential to integrate with the startup sequence or is essential for timely evaluation of management controls. The overall review plan is given in Attachment 1.

- The results from the above reviews will be applied to our evaluation of management controls, and any necessary changes will be made to WNP-2 in this phase.

- Reinspection was performed during ongoing construction, but its schedule was integrated with the system startup sequence. Verification reinspections were completed in each system prior to turnover.

These intermediate-term commitments were not met on the schedule originally anticipated. It became apparent early in the Restart activities that, to perform a thorough review of prior work, even in only those areas where past problems occurred, it would be necessary to separate the Task Force II review actions into two phases: Restart and Reverification. It was decided that work could be resumed, provided new installations did not prevent access to previously-installed hardware for reinspection. It was necessary to complete the evaluation of management controls prior to restarting construction, but this was done without applying results of hardware reinspections. Sufficient knowledge was acquired from the review of procedures and control methods to resume work with confidence that the management improvements made would result in quality construction. The Restart activities were actually completed in June, 1981, and the Quality Verification Program activities are scheduled to be complete in July, 1983.

Phase III - Continuing

o The reviews of safety-related hardware and records will be completed in this phase and knowledge gained in reviewing past work at WNP-2 will be applied to evaluations of management control systems at all projects.	These reviews are now (4/83) being completed and the results evaluated. During the course of all review actions, including those accomplished prior to resuming construction, knowledge acquired was disseminated to other Supply System Projects for use in evaluating management controls. This was accomplished through a corporate-administered "Lessons Learned" Program.
o Further changes will be made in construction management systems which increase Owner awareness of contractor and subcontractor activities. Where necessary, Owner personnel will be resident with contractors for a sufficient time to evaluate work methods and quality controls. Additionally, certain contractor procedures are being individually analyzed and necessary improvements will be made. These actions will improve working level communication with the Owner and will permit more timely action to resolve problems.	Owner representatives were placed in residence with some of the contractors during the Restart Program reviews. However, the methods for completing construction at WNP-2 had been altered by engaging a highly-experienced Construction Manager early in 1981. All work is being accomplished under Bechtel Power Corporation's Quality Assurance Program. Contractor procedures used in the ongoing work after restart were reviewed and improved by the Restart Program task forces. Very close direct review and approval of contractors' management plans for resuming and continuing work were required prior to release for restart.
o It is recognized that the resolution of outstanding concerns and problems at WNP-2 requires additional resources, more management involvement, improved performance standards, and improved tracking systems designed to inform project management of deviations from performance standards and require timely resolution and followup. Detailed recommendations will be made by the Task Forces.	Task Force I reviewed the overall status of outstanding project issues and made recommendations that backlogs of Requests for Information, Project Engineering Directives, Nonconformance Reports, Corrective Action Requests, 50.55(e)'s, and NRC Inspection Items be reduced and management controls be established to minimize future backlogs. Performance standards have been established for deficiency reports, and backlog status is tracked for all items and reported in the Program Director's Report.

o The quality assurance program will be augmented by more project, construction, and engineering management awareness and involvement in resolution of quality problems.	In addition to the normal management interfaces on the Project, a Monthly Program Director's Review is conducted to keep management informed and involved in significant problem issues. The review format requires participation by the Quality Assurance Department.
In both the intermediate and continuing phases, the following conditions will apply:	
o Reports on these contract-by-contract reviews will be prepared and given to the NRC Resident Inspector, and forwarded to Region V every two months until completion.	Bimonthly Reports have been provided to NRC, Region V until 9/82. With NRC concurrence, the frequency of reporting was revised to quarterly.
o Repairs or further action on identified deficiencies will be reported in accordance with 10CFR50.55(e) and Part 21. Deficiencies not meeting these criteria will be in the periodic reporting and available for review by the Resident Inspector.	The Project has adhered to this commitment throughout the course of the Restart Program and Quality Verification Program as evident from the reports.
o In addition to the contract-by-contract review presented in the schedule associated with the 50.54(f) response, we have provided a model of our strengthened system verification process, which provides further assurance of the acceptability of components and structures integrated into a system.	The verification process was rearranged when the Quality Verification Program (QVP) was prepared. Logic and flow diagrams are used in the QVP description to illustrate program activities and to depict the interrelated elements of the plans.
In conclusion, I reiterate that our corporate energy is dedicated to compliance with law, our public responsibility for nuclear safety and the need to resolve these issues on a rigorous schedule.	As presented to the NRC in regular progress reports since the June 1980 Stopwork, the Project has fulfilled these obligations in the past and continues to do so in its ongoing activities. Enormous resources have been dedicated to sample reinspections by all Project participants, in order to determine the adequacy of safety-related work accomplished prior to the stopwork.

The following is a "comparison" of commitments of the plan submitted as Attachment 1 with the activities accomplished (or under way) by the Supply System in its Restart and Quality Verification Programs. This attachment embodies the 50.54(f) Commitments. Subsequent attachments, also listed hereafter with a brief description of the contents, do not record commitments, per se. Rather, they provide a snapshot of activities under way or envisioned at the time of the response letter.

Revisions to the information in the Attachment 1 comparison subsequent to a July, 1982 version (submitted to the NRC with Bimonthly Progress Report No. 11) are indicated by vertical lines in the right-hand margin.

Commitment Statements	Discussion
A. Summary	
This program describes the plan the Supply System will implement for the review and/or reinspection of completed safety work to determine the adequacy of documentation, installation and hardware. Also, included is a schedule for the review of contractors, subcontractors and prepurchased equipment contractors.	A general description of activities accomlished by the Supply System to review and reinspect completed safety-related work, and therefore comply with the provisions of this plan, is presented here. Although there are no basic deviations from the objectives and policies of this plan, changes from specific provisions have occurred. Because some intermediate-term commitments were not met on the schedule originally planned, and because the amount of review associated with past work was greater than anticipated, another schedule was presented in the Quality Verification Program (QVP) document, QVI-01, Section 6.0. This schedule was not periodically updated because there are several contributing schedules involved in planning the work of the QVP, each of which was updated as necessary during the course of work.

B. Objectives

The objectives of this program are to:

o Determine whether the quality assurance program was adequate in the past to assure completed safety-related work was properly performed.	The Restart Program and Independent Review Team reviewed on-site contractor quality programs and that activity resulted in improvements to those programs. The QVP, while not specifically directed toward assessment of those programs, is dedicated to determining the adequacy of work completed by the contractors prior to the stopwork. The acceptability of that work will provide a relevant demonstration of the ability of past Quality Assurance Programs to confirm that safety-related work was performed properly.
o Identify need for repairs or further action.	Deficiency-review results and problems identified during Restart were used to plan QVP reinspections (reference: Generic Problem Areas List). NCRs or other appropriate nonconformance and corrective-action directives have been written for deficiencies encountered in the QVP.
o Apply knowledge gained to the review of QA programs at other Supply System Nuclear Projects.	Applicable knowledge has been disseminated through the corporate-administered Lessons Learned Program. This process will continue as appropriate through QVP completion.

C. Policies

The review and/or inspection of safety-related work at WNP-2 will be accomplished in accordance with the following policies:

o Review of records, installation and hardware will be accomplished under Owner direction and control.	The QVP, like Restart before it, is a Supply System program. It is directed by the Supply System with participation by personnel in all site organizations. Project instructions provided management direction for all activities.

o Review shall be integrated with on-going work plans and management systems to assure proper priority, feed back to ongoing work, and to adjust the review response to knowledge acquired.	Project direction had been given to participating organizations requiring verification of systems to be complete before turnover to the Supply System. Program activities were carefully scheduled to precede any construction milestones which would deny reinspection access. Program instructions identify considerations to be given for an increase in inspection samples when negative reinspection results are acquired.
o This program will have priority over ongoing work. The project construction work pace will be adjusted accordingly.	The decision to resume construction prior to completing reinspection changed the perception of this commitment. Verification of hardware in each system by sample reinspection <u>before system turnover</u> is a requirement identified in the the Project's Master Work List control system. This policy assures that past work was neither covered by new work nor overlooked.
o The basis for key decisions will be documented.	QVP logic is documented in various program instructions. Specific decisions impacting the work of project participants are issued by letter from the WNP-2 Program Director or Construction Manager.

D. <u>Program Description</u>

The basic elements of the review and/or reinspection program are described below:

1. Identify all contractors, subcontractors and prepurchased equipment contractors performing safety-related work, the status of their work and the status of final documentation review.	This was initially accomplished in the Restart Program. The list of closed contracts has been reviewed and amended during the course of QVP, as identified in regular progress reports. This list now includes thirteen more contracts than originally planned.

2. The review and/or reinspection program will be accomplished by using the following process. The attached logic diagram depicts the program.	The process for review and reinspection of past work was rearranged as described in Program instructions. The revised implementation process is more compatible with project activities and still assures that the proper reviews and reinspections are performed.
2.1 Determine the criticality and priority of items for review and/or reinspection.	This determination was not made in the same manner described in the original examples given in the other attachments to the Supply System's 50.54(f)-response letter. All QC-I/SC-I hardware items, furnished or installed by seventy contracts, were considered to be candidates for reinspection in the QVP, and reinspection priority was determined by the system turnover schedule.
	As the review effort on prepurchase and inactive contracts draws to a close, the Supply System is initiating a special review of hardware furnished or installed by these contracts to determine if there are critical components which should be reinspected, regardless of other program reviews which indicate otherwise. Procedures and documentation for these components are also covered by this review.
2.1.1 Evaluate the significance of the safety function, complexity of construction, time period of construction or fabrication activity, assessment, and trending of deficiency documentation, and discussions with selected crafts and quality control personnel.	Some of these considerations were made during Restart and in QVP. However, determination of hardware reinspections were more dependent upon results of the documentation review. Trends of deficiency documentation established during Restart reviews, along with other identified concerns, were compiled into a Generic Problem Areas List, which was used in the development of reverification plans. Discussions were not held with craft personnel, but were held with QA, QC, and Field Engineering personnel to aid in determining past problems.

2.1.2 Identify all contractors with critical work remaining. These contractors will be the first priority for review. . .	Accomplished in the Restart Program. For QVP, however, emphasis on systems completion had more properly prioritized reviews and reinspections in the field in conjunction with system turnover.
2.1.3 Identify and evaluate all contractors with any work remaining which could limit access for reinspection of completed critical work.	Scheduling of reinspection activities was accomplished by system priority as stated above, not by contractor or commodity. For the randomly selected reinspections performed by the QVP, no such selected sample of prior work has been identified as having been covered by new work accomplished since Restart.
2.2 Determine whether other inspection or evaluation programs have satisfied or will satisfy the requirements of this program. These inspections or evaluations will be referred to Engineering for a documented evaluation of compliance with reinspection objectives. Quality Assurance and Management will review and approve results.	In the QVP, credit is taken for inspections performed by other programs only if they were appropriate and were conducted with sufficient independence to be objective. These programs are reviewed in accordance with established guidelines and the results documented (Ref. QVI-05). There are a number of such programs which have reviewed work that was already in place at the time of the stopwork.
2.3 Record Review - A review of a significant number of quality records for critical items shall be performed.	QC-1/SC-1 hardware comprises the candidate population for review and reinspection (these were considered to be the "critical items"). As identified in the model diagram sent along with the 50.54(f)-response letter, a 10% sample of the QC-I/SC-I hardware and records was to be reviewed. In much of the work, 100% of the documentation was reviewed.

2.3.1 Quality and Work Procedures.

o Verify that procedures incorporate applicable requirements from ths SAR, specification, code, and standards.	Accomplished for current site contractor procedures by the Restart Program. Procedures for contracts already closed were not reviewed for technical adequacy, but were reviewed to determine that appropriate engineering approval had been obtained. In certain instances in the Special Tasks element of QVP, inactive-contract procedures were reviewed to ascertain appropriate document control measures were in place. Further, a special effort, briefly outlined in Section 2.1, will address technical adequacy of procedures for closed contracts.
o Verify that procedures were approved by appropriate approval authorities.	Accomplished in QVP review of inactive contracts, and Restart review of active contracts.
o Verify that welding and special procedures were qualified.	Accomplished in QVP review of inactive contracts, and Restart review of active contracts.
2.3.2 Review personnel (welding/NDE/QC/Engineering) qualifications to determine whether they were qualified.	Welding, NDE, and QC Inspectors' qualifications are covered by document reviews described in Sections 3.1 and 4.1 of the QVP. The techniques described in Section 5.2 provide positive information on engineering qualifications by demonstrating individual performance, and are more valuable than less direct methods, such as verification of resume statements and the like. This review is not intended to be a resume search.
2.3.3 Review deficiency reports (NCRs, CARs, IRs, RFIs, etc.) for the following:	

o Significance of backlog on quality aspects.	Accomplished by Task Force I, Deficiency Reviews.
o Quality of disposition as written.	Covered on a sample basis by the Special Tasks element of the QVP: Deficiency Document Review.
o Quality of disposition as implemented.	Covered on a sample basis by the reinspections of the Systems Completion element of the QVP.
2.3.4 Review selected sample of work packages for:	Covered by QVP, Section 3.0 for active contracts, and Section 4.0 for inactive contracts. In some cases, more than a sample are reviewed: 100% of Contract 215 (active) and all inactive contractors' quality documentation were reviewed.
o Completion of all required inspections.	
o Use of proper forms.	
o Completeness of package.	
o Adequacy of review by contractor personnel.	
2.3.5 If significant problems are identified, escalation of Records Reviews will be applied as shown in the logic diagram.	The diagram is not a specific part of the QVP. Appropriate consideration is given to escalation of inspections/reviews in all parts of the Program as outlined in Section 5.1.
2.4 Receipt Inspection - Evaluation of Site Contractor receipt inspection programs will be conducted.	No specific actions are directed to assessing the contractors' past programs, as this is not considered useful. Reinspections of the mechanical contractor's stored ASME material, and reinspection of owner-furnished, prepurchased material in storage was performed prior to use in the plant. Previously installed material was reinspected as a part of the Systems Completion and Prepurchase and Inactive Contracts elements of the QVP, and this included appropriate receiving-inspection attributes. Vendor drawings and information were utilized as appropriate for these and other inspection points. Deficiencies identified during reinspection of installed material, although pos-

	sibly receiving-inspection-related, are resolved within the project's corrective action process, and no specific action will be taken to identify their source.
2.4.1 Critical Items received by the contractor will be identified.	For the purpose of this program, critical items are basically defined as QC-I or QCII/SC-I.
2.4.2 Contractor's documented receiving inspection programs will be reviewed for adequacy. This review shall include the following considerations:	
o Inclusion of PSAR and Specification Requirements.	Active contractor procedures for receiving inspection were reviewed in the Restart Program for inclusion of FSAR and specification requirements. Results of these reviews are being considered in QVP review of receiving inspection activities.
o Receiving Inspection personnel qualifications.	Receiving inspection personnel qualifications were checked prior to restart of construction. Earlier personnel will not be checked because only general requirements existed prior to restart, and verification is not considered useful. A more valuable method was the reinspection of stored material to verify that it meets project requirements, which indicates whether past inspections were satisfactory.
o Use of drawings, vendor data and/or vendor specifications.	Relevant information provided by the vendor is utilized in performing verification reinspections of stored and installed hardware.
o Review of deficiencies identified subsequent to receipt inspection to determine if they should have been documented at receipt inspection.	This will not be done. It would provide indirect information which is inconclusive because of the difficulty in determining if discovered deficiencies existed at the time of receiving inspection. Further, the reviews, inspections, and tests performed by the project in this and other programs are directed to verifying the in-place end product.

2.4.3	If the receiving inspection program is judged to not be adequate, a significant sample of installed hardware shall be reinspected.	The Quality Verification Program provided a complete reinspection of the mechanical contractor's critical items which had a potential for installation in in the plant, to verify correct initial receiving inspection. With minor exceptions, the material was found satisfactory. The Supply System initiated a complete reinspection of owner-furnished materials in their custody. For hardware already installed, a 10% sample was reinspected to determine its acceptability.
2.4.4	If the receipt inspection program is judged adequate, a smaller sample of reinspection shall be accomplished.	Covered in 2.4.3.
2.4.5	Significant problems identified during the reinspection program shall result in a progressively larger sample size.	For prepurchased material in storage, 100% was reinspected. For the mechanical contractor's ASME material in storage, 100% was reinspected. For previously installed material, the Quality Verification Program analyzes the nature and number of deficiencies discovered in the reinspection process to determine appropriate increases in sampling.
2.5	Installation Reinspections - Installation Reinspections not covered by the reviews performed in 2.2 shall be accomplished as follows.	Installation reinspections are accomplished by the Quality Verification Program.
2.5.1	Critical work activities within the contractor's scope of work shall be identified. Critical work and activities are determined as identified in Section 2.1.	Covered in Section 2.1.
2.5.2	A significant sample of work activities will be selected for reinspection.	Basically, ten percent of the QC-I/SC-I items in the plant which are not covered by other inspection or evaluation programs are reinspected on a systems basis. The reinspections are repeat final visual inspections of the hardware.

2.5.3 Reinspection shall independently verify adequacy of the activity, as well as the accuracy of the associated records.	QC instructions have been provided to cover the reinspection activities and review of quality records. The instructions require that independence of the inspectors be maintained.
2.5.4 If significant problems are found in the installation, a progressively larger sample will be reinspected.	The QVP analyzes the nature and number of deficiencies discovered in the reinspection process to determine appropriate increases in sampling.
2.6 Deficiencies - Deficiencies identified during the performance of record review, reinspection of installations and received material shall be documented.	Deficiencies are recorded on Inspection Reports and Nonconformance Reports. The deficiencies are described and the corresponding deficiency-documents are identified in the final reports of the QVP.
2.6.1 An analysis of the number and types of deficiencies identified shall be performed to determine the root cause of the problem and appropriate corrective action initiated. Relevant information will be communicated to all projects.	Many deficiencies were identified and trended in the Restart Program, and subsequent management changes were made at WNP-2. The results of the analysis of these task force efforts were disseminated to all projects through the corporate-administered Lessons Learned Program. Likewise, the information on deficiency trends arising from the QVP are being communicated through that program.
2.6.2 Deficiencies meeting the requirements of 10CFR50.55(e) and/or Part 21 shall be reported to the NRC in accordance with approved procedures. Others shall be summarized in the bimonthly report to the NRC Region V Office.	Appropriate reporting to the NRC has been accomplished during the Restart and Quality Verification Programs. In addition, detailed reports of the reviews and reinspections are being prepared to record the findings of the QVP, and will be published at the completion of the program.

ATTACHMENT 2 of 50.54(f)

Commitment Statements:

This attachment gives an example of the application of review criteria to Contract 216. It describes a rationale for selecting hardware for review.

Basically all QC-I and SC-I hardware which has been completed, inspected, and accepted prior to July, 1980, are candidates for review in the QVP. Not all work will be sampled for reinspection; however, decisions for not reinspecting the work of a contract or a system will be documented in the reports of the reinspection programs.

ATTACHMENT 3 of 50.54(f)

Commitment Statements:

Attachment 3 is a description of the features, scopes, and functions of the three Supply System Task Forces established to respond to the 50.54(f) information request.

Task Force activities have been or are being performed in accordance with the provisions of this attachment. Aside from the condition where much of the Task Force III activity was identified and performed within Task Force II, Phase I, there have been and there are no anticipated significant deviations from the provisions of the attachment.

ATTACHMENT 4 of 50.54(f)

Commitment Statements:

Attachment 4 is an illustration of a Flow Diagram for a system verification process.

There are no significant departures from elements illustrated. More detailed illustrations of the verification processes are included in the Quality Verification Program description.

ATTACHMENT 5 of 50.54(f)

Commitment Statements:

Attachment 5 specifically relates to then-near-term actions for Contract 215.

Except for some of the verification of past work, these issues were addressed in earlier activities, prior to the restart of construction. The past work is covered in the Quality Verification Program. The construction scope of Contract 215 was transferred to the Systems Completion Contractor.

ATTACHMENT 6 of 50.54(f)

Commitment Statements:

Attachment 6 described then-recent actions to strengthen management control of the Project.

This was a historical snapshot of management actions during the period preceding the cessation of work. The attachment contained no specific commitments pertaining to verification tasks. A number of these activities continue today.

SECTION 5.0

PROGRAM MANAGEMENT

This section describes the organization and management activities which control the QVP, and the methods by which close coordination and control were achieved.

5.1 Organization

The QVP was performed by the Supply System and its Construction Management Contractor, BPC. The Supply System QVP Manager was responsible for the overall implementation of the program. The QVP Manager, while reporting to the Supply System Construction Manager, was not directly involved in the ongoing construction of the plant. Figure 5-1 is a functional organization chart which illustrates the activities and responsibilities of the Program participants.

5.2 Program Interfaces

5.2.1 Internal Control

The activities which comprise the QVP have been performed by a diverse group of participants. This was realized at the beginning of the Program, so conscious steps were taken to ensure the Program was properly implemented. This was particularly the case in the Systems Completion element where verification of active contracts was being performed by the Construction Manager and the construction contractors.

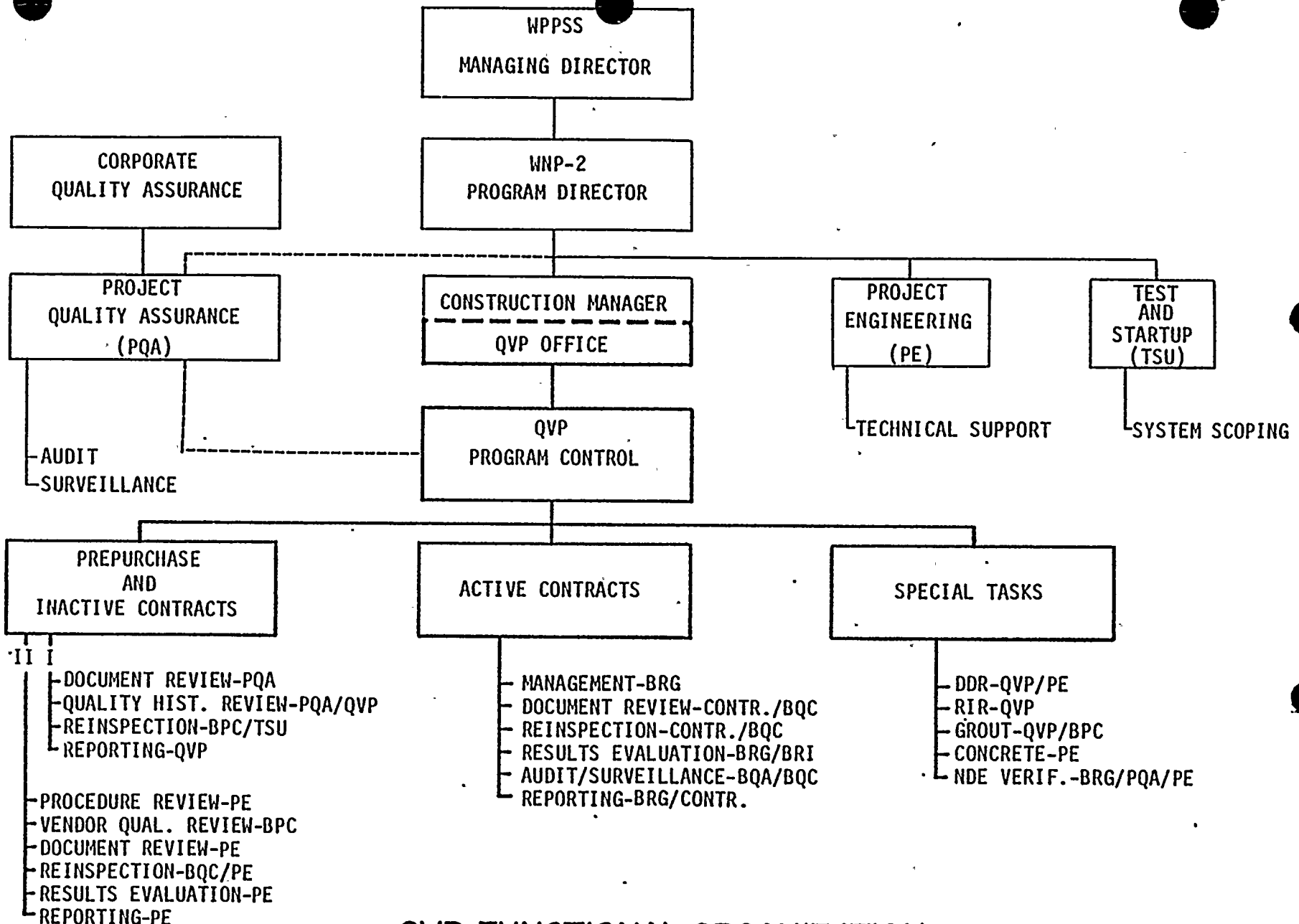
5.2.1.1 QVP - Bechtel Reverification Group

Daily interface meetings were held with the QVP Manager, his appropriate staff members, and the BRG lead engineer. The detailed philosophy for reinspection, progress and results were discussed at these meetings.

The BRG held frequent meetings with the contractors during the preparation and implementation of the Program. The QVP office was kept informed of these activities and participated in many of the contractor meetings.

5.2.1.2 QVP - Project

The internal control between the QVP office and other Project departments was managed by normal administrative processes. Requests for action were initiated by memoranda, and such actions were monitored by regular interface meetings.



QVP FUNCTIONAL ORGANIZATION

Figure 5-1

The main Project-related activities were the meetings between the QVP staff and the Project QA department for the control of the PP&IA document review; and the meetings among the QVP staff, Corporate and Project Engineering departments, Project QA, the A/E and active site contractors for the Special Tasks element of the QVP.

5.2.2 Management Involvement

WNP-2 Project management received information on the depth, status and findings of the QVP from a number of regular meetings between QVP participants and Project management staff, both Supply System and Bechtel. The major informational meetings are as follows:

- o Daily meetings with the Supply System Construction Manager
- o Periodic informal meetings with the WNP-2 Program Director
- o Formal presentations to Project management
- o Presentation to Corporate Nuclear Safety Review Board
- o BRG presentations to BPC corporate representatives

Project management also obtained information during the preparation of presentations to outside organizations, and feedback from its independent consultants, as discussed in Section 5.4.

5.2.3 NRC Involvement

The NRC Resident Inspectors kept themselves informed of the activities of the QVP by a variety of means:

- o The Resident Inspector (RI) attended many of the daily interface meetings between the QVP and the BRG, at which time these meetings were extended beyond the normal daily scope to address broader issues.
- o The RI attended the program presentations to Project management and some presentations to external auditors.
- o The RI requested copies of all BRG outgoing correspondence and all significant QVP correspondence. In addition, the RI receives copies of all completed reports.
- o The RI was provided additional information or documentation upon request during the course of the Program. These requests were tracked by the QVP office to ensure they were met. Tracked items included those which were recorded during NRC weekly and monthly exit meetings, as well as the RI's informal requests.

The QVP Manager periodically gave presentations to the NRC Region V staff on the QVP. These presentations have covered a broad spectrum of the Program, including content, results, status and methodology. Questions on Program content and methodology have, at times, resulted in additional Program commitments.

5.3 Reporting

The reports discussed in this section are those periodic reports related to management of the Program. The large number of reports which describe the activities and results of the Program are identified in Section 1.0 and will not be discussed here.

5.3.1 Internal Program Reports

The internal reporting of active construction contracts between the BRG and the QVP consisted of a semi-monthly report which described the status of the program and the major activities occuring during the report period. This report includes the semi-monthly reports submitted to the BRG by each of the contractors. These reports describe the status and activities for each contract.

In January, 1983, the frequency of BRG reporting was reduced to monthly because of the reduced level of reinspection activity toward the end of the Program.

5.3.2 Reports To Management

The QVP Manager submitted weekly reports to the Supply System Construction Manager. These reports contained general information and a section on each of the three major elements of the QVP. Information for the latter sections was prepared by each of the lead engineers in the QVP office. This report provided a detailed and accurate status of the activities being performed in the Program.

5.3.3 Reports To NRC

The Supply System provided periodic reports to the NRC Region V office describing the major activities in the QVP during the reporting periods. These reports were initiated to meet a commitment made in response to the NRC's 50.54(f) letter. Initially, the report described the activities occurring during earlier phases of the RCSW program (refer to Section 3.0). However, from mid-1981 onwards the Restart Program was complete and the reports dealt solely with the QVP.

The reports contain a description of the major activities occurring during the report period, including a description of any changes in the Program by which the Project was meeting its

commitments in the 50.54(f) response letter. The status of the Program is described along with the major findings.

The reports were initially submitted on a bi-monthly basis which continued until the end of June, 1982. From July 1, 1982, the reports were submitted on a quarterly basis, pursuant to an agreement between the Supply System Program Director and the Region V Administrator.

5.4 Audits

The QVP was periodically scrutinized through rigorous reviews by auditing agencies, both internal and external to the Project. Thirteen audits and 75 surveillances were conducted during the implementation period of the Program. These are listed below and discussed hereinafter.

Audits & Surveillances

Overall Program		
Audit	Jan 82	Project QA
Management Assessment	Apr 82	Corporate QA
Audit	Jun 82-Sep 83	TAA
Audit	Jul 82	Administrative Auditor
Surveillance	Oct 82	Project QA
Audit	Jan 83	Corporate QA
Bechtel		
Audit	Jun-Jul 82	Bechtel QA
Audit	Sep 82	Corporate QA
Audit	Jan 83	Bechtel QA
Contractors		
5 Audits	Jan-Oct 82	Bechtel QA
74 Surveillances	Dec-81 - Oct 82	Bechtel QC

5.4.1 Internal Audits

5.4.1.1 Bechtel QA

Bechtel QA performed two audits of BPC's and five audits of the contractors' QVP activities. These audits verified

the implementation of the Program to the applicable procedures. They consisted of reviews to ensure compliance with Program requirements and thoroughness of reinspection. The audit reports are included in the appropriate book of Volume IV.

5.4.1.2 Bechtel QC

Bechtel QC performed a total of 74 surveillances of the contractors during the reinspection activities. These surveillances were performed to ensure compliance with Program requirements, and are included in the respective contract reports (Volume IV).

5.4.2 Management Reviews

5.4.2.1 Management Assessment

WNP-2 Project management initiated a Management Assessment of the QVP in April, 1982.(13) The Management Assessment Team consisted of senior personnel from the Supply System Corporate QA organization. The objective of the assessment was to provide the WNP-2 Program Director with an evaluation of the ongoing Quality Verification Program's capabilities to satisfy the commitments made in the July, 1980, response to the NRC's 50.54(f) request.

The assessment was performed by a thorough review of commitments, reports to NRC, QVP procedures and correspondence; interviews with a complete cross-section of the personnel involved; and selected observations of the functioning program.

The assessment identifies a number of areas in the Program which required strengthening in order to most effectively meet the commitments. It also identifies a number of strong points, the most important of which was the knowledge, attitude, qualification, and organization of the personnel assigned to the Program. The Project initiated corrective action to strengthen the weak areas.

5.4.2.2 Technical Audit Associates (TAA)

The Supply System obtained the services of TAA to perform an independent review of the WNP-2 Plant Verification Program, of which QVP is a part. The Plant Verification Program is described in separate reports.(14) TAA is a select group of senior management personnel, each of whom has many years of responsible experience in the nuclear industry.

TAA performed an ongoing review of the QVP which includes an in-depth review of selected Program reports. These reviews were performed to ensure the technical validity of the Program, its assumptions and conclusions.

5.4.2.3 Corporate QA

The Supply System Corporate QA organization performed an audit of BRG in September, 1982,(15) and an audit of the QVP in January, 1983.(16) These audits confirm the adequacy of the implementation of the Program as well as the inclusion of resolutions to earlier Management Assessment findings.

5.4.2.4 Project QA

The Project QA organization performed an audit of the QVP in January, 1982,(17) to ensure the Program was being correctly implemented by its major participants.

Project QA performed a surveillance in October, 1982,(18) to ensure Management Assessment findings had been resolved.

5.4.2.5 Administrative Auditor

The Supply System Administrative Auditor, who reports to the Board of Directors and interfaces with the Office of the Washington State Auditor, reviewed the Program in July, 1982.

5.4.3 NRC Overview and Inspections

The NRC Region V office has comprehensively covered the QVP during the period of its implementation. This has been achieved through the events outlined herein as well as by the direct involvement of the Resident Inspector discussed earlier.

- In February, 1983, a Region V Task Team reviewed the QVP against the commitments in the Supply System's original response to the 50.54(f) request. This team identified 11 issues which were discussed at a meeting in March, 1983.(19) At this meeting, Project responses to the questions raised were provided and additional commitments were made by the Supply System.

- In June, 1983, the Supply System made a QVP presentation at the Region V office as part of an overall Project status report. This presentation evolved into a work session in which eight additional questions were raised. These questions were answered at a presentation at the Project site later that month, and also included additional commitments.(20)

- Early in the Program, the RI requested notification prior to performing any reinspection activities. This enabled the RI to perform unannounced checks of the adequacy of the reinspections.

- The RI or Region V representatives have reviewed reports generated as a part of the Program. These reviews have included independent inspections of a sample of hardware to confirm the adequacy of the reinspections.

- The RI or Region V representatives have reviewed the implementation of many aspects of the Program during its progress.

5.5 Resources and Cost

The Supply System and its contractors have expended approximately 150,000 manhours of effort in the execution of the QVP. This estimate includes those resources dedicated to reviews, inspections, management activities, and construction-craft support of the Program, but does not include the resources expended in special related programs. An estimate of these manhours, identified by Project organization, is provided below. The total cost of the QVP is estimated to approach $10 million.

ESTIMATE OF
QVP PERSONNEL RESOURCES

ORGANIZATION	AVERAGE NO. PERSONNEL	MANHOURS X 1000
QVP Office	6	23
BRG Office	6	18
Project Engineering	8	15
Corporate Engineering	5	1
Project QA	6	28
Bechtel QA	2	4
Grout Program	13	6
Contractors	51	53
TOTALS	96	148

In addition to QVP resources, the Project has expended in excess of one and one-quarter million manhours and $32 million on special related programs to verify the work in place.

SECTION 6.0

METHODOLOGY

This section addresses the rationale applied to sampling, and the techniques used to select hardware items for reinspection and design change documents for review. It covers the philosophy applied to inspections in this Program and the methods used to perform them. It also addresses the rationale used to evaluate results of the inspections and reviews so that conclusions may be drawn and appropriate corrective actions initiated. The entire process is displayed in the logic diagram in Figure 6-3 near the end of this section.

6.1 Sampling Rationale

6.1.1 Active Contracts

6.1.1.1 Determine Hardware Population

The process of selecting a representative sample of hardware begins with a determination of the population of safety-related work completed by the construction force and accepted by the contractors' QC prior to July, 1980. The contractors' own management system control lists are used to do this wherever possible.

Those items constructed and accepted after July, 1980, are excluded from the scope of QVP because of the strengthened construction controls in place at the time of the NRC-approved restart. These improvements in the management system are:

- Contractors' improved management systems, QA Programs, and procedures reviewed by Restart Program
- New Construction Manager/Construction Completion Contractor with NRC-reviewed QA Program
- Retraining of construction personnel and inspectors to improved procedures
- Strengthened A/E responsibility for design by separating design and construction management functions
- Realignment of contract scopes to avoid duplication of work types
- Supply System management improvements made to strengthen projects.

The next step in the process is to determine those components which were reworked after July, 1980, either because of redesign or previously identified deficiencies. If so, the current Project QA Program covers this work, and the components can be removed from the scope of QVP.

The above does not affect the validity of the sampling process or the scope for the purpose of verification, because QVP addresses all safety-related work which was constructed, inspected and accepted prior to July, 1980, and which remains in place.

The final step in the determination of the population is the evaluation of other related programs to determine if these programs meet the requirements of the QVP. These programs were addressed in Section 4.5. If the programs meet the requirements of the QVP, then the population of hardware covered by these programs is eliminated from the scope of reinspection and the overall population for sampling is adjusted.

6.1.1.2 Select Items

The 50.54(f)-response letter committed the Supply System to review a "significant sample" of records and hardware. The logic diagram in the response letter indicates 10% of the records will be reviewed. Ten percent, therefore, has been taken to define "significant sample" for hardware as well.

For the larger contracts, a 10% sample size is considered to be a very significant amount, which allows statistical results and projections to be determined with a great degree of confidence.

The sample selection process is as follows:

- Separate each contractor's work scope into similar components, i.e., piping, hangers, duct pieces, etc.
- Select 10% of each component type at random using appropriate random number tables, hand selection, number generators, etc.
- Document the sample selected prior to inspection.

For contracts 215 and 218, because of the large work scope, components are selected from within startup systems to facilitate schedule requirements. The system turnover schedule was used to guide the order of inspections for maintaining priority over on-going construction.

For contract 215, a random 10% sample of piping isometrics was selected within each system. The hangers on those isometrics comprise the 10% sample of hangers across the contract. A check was made to verify that the sample size of hangers was adequate to cover the total number of hangers installed by contract 215. This sampling process did not negate the randomness of hanger selection, rather, it selected hangers in random sub-groups.

To verify that the random samples represent a typical cross-section of the total population, a check was performed for contract 215, mechanical construction, and contract 218, electrical construction, the two largest active contracts. This was a comparison of the time of installation of the the sample with the time of installation of the total population. The excellent correlation between the sample and the total population is apparent from examining Figures 6-1a and b for contract 215 hardware, and Figures 6-2a and b for contract 218. The graphs are plotted on different scales (10X) to facilitate comparison of the 10% samples with the total populations.

A random selection should provide a correct distribution across time period, personnel performing and inspecting the work, complexity of installation, etc. The time-period check of the sample against the population shows this to be true.

6.1.2 PP&IA Contracts

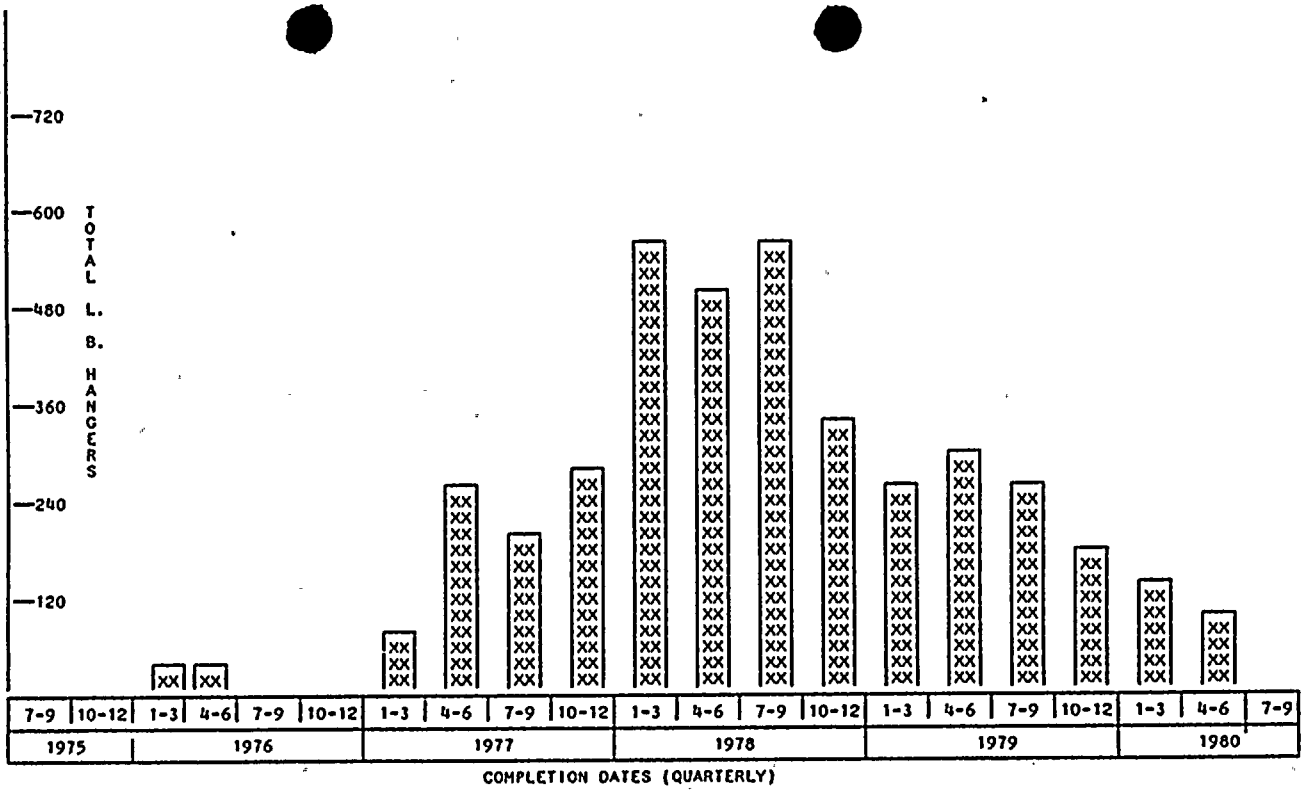
6.1.2.1 Determine Population

All of the hardware provided in the plant by these contracts is subject to verification. Therefore, in the first phase of the PP&IA element of the Program documentation for all safety-related hardware is subject to review, and hardware reinspection is determined by consideration of the results of the document reviews, contract-quality-history reviews, and special related programs.

In the second phase of this element, the process is oriented to reinspection of hardware, and the methodology for determining the candidate population for reinspection virtually follows that described in Paragraph 6.1.1.1.

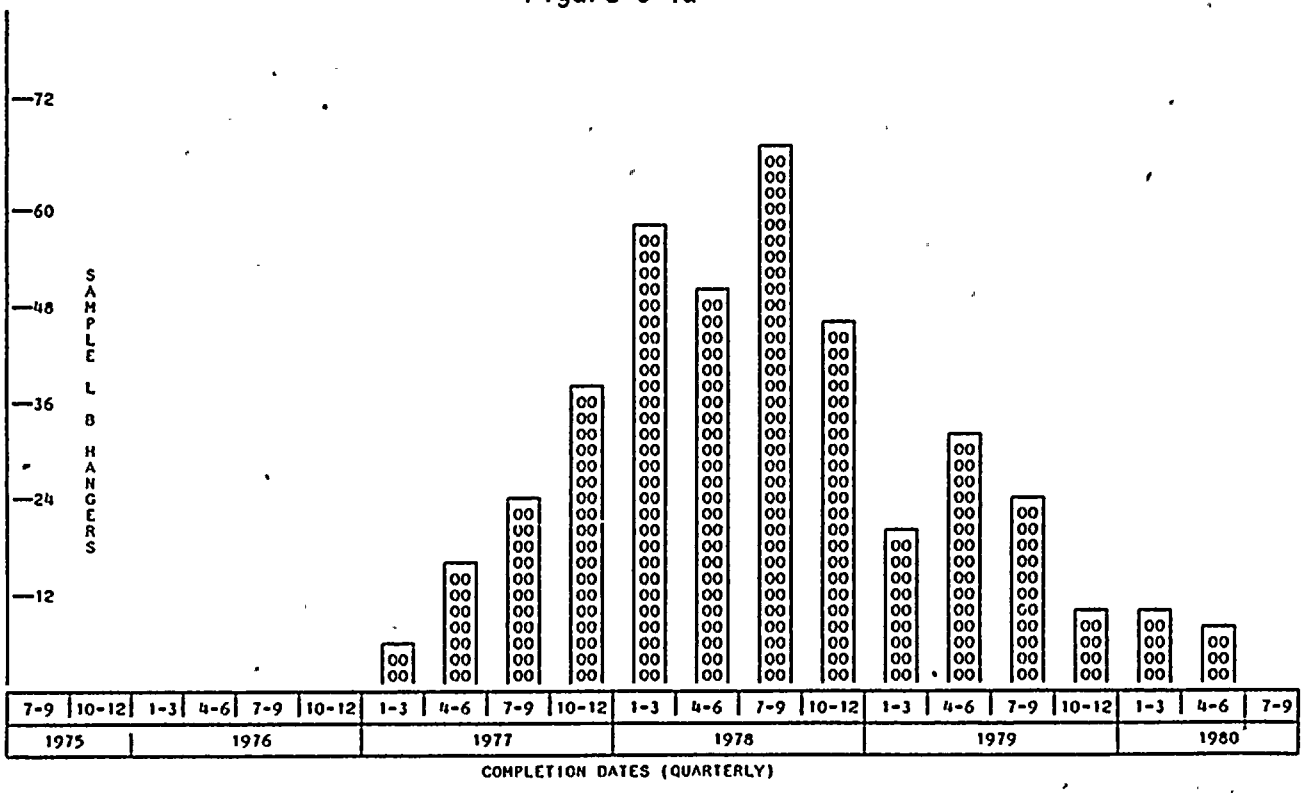
6.1.2.2 Select Items

In both phases, following a decision to reinspect hardware, the sampling process for items which lend themselves to discrete counting is identical to that outlined in Paragraph 6.1.1.2. In the case of unique items for which discrete counting is inappropriate, such as, one safety-related crane, a reinspection plan is established.



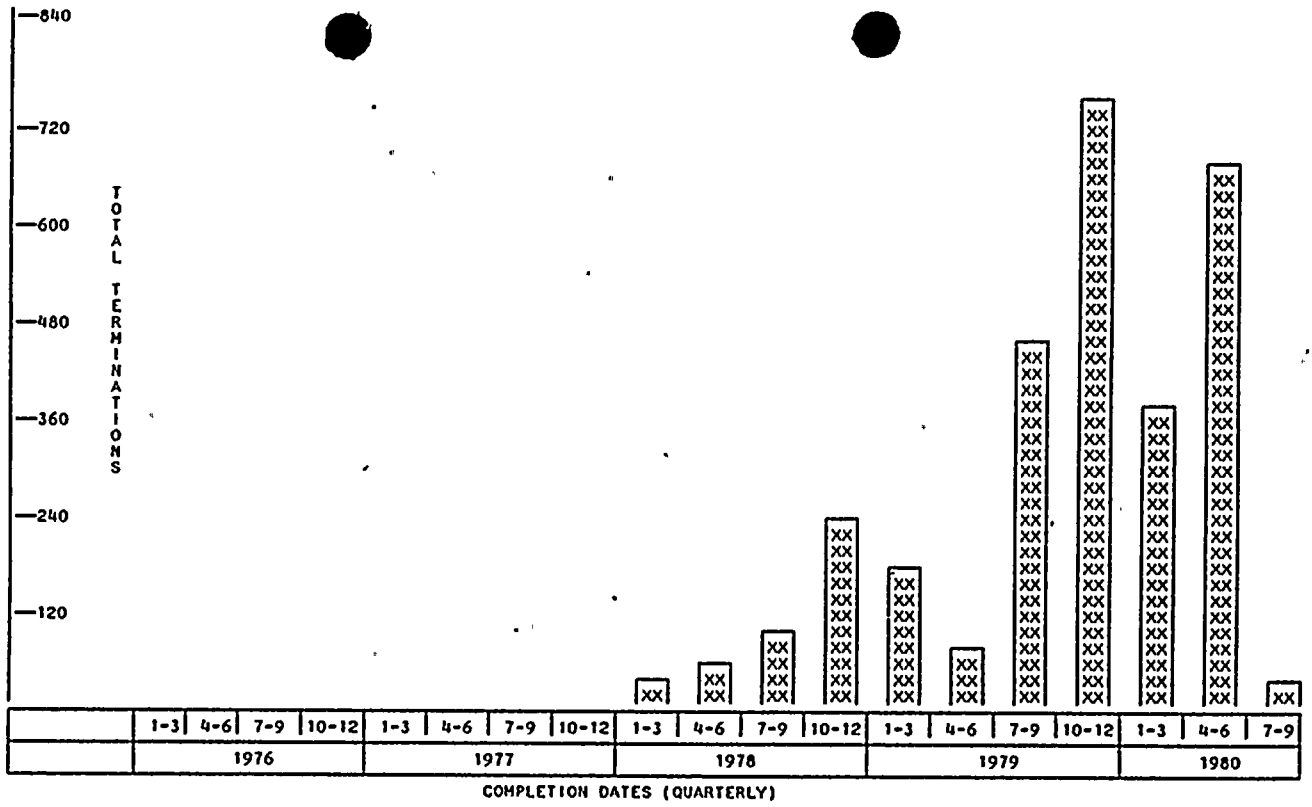
CONTRACT 215 LARGE-BORE HANGER POPULATION

Figure 6-1a



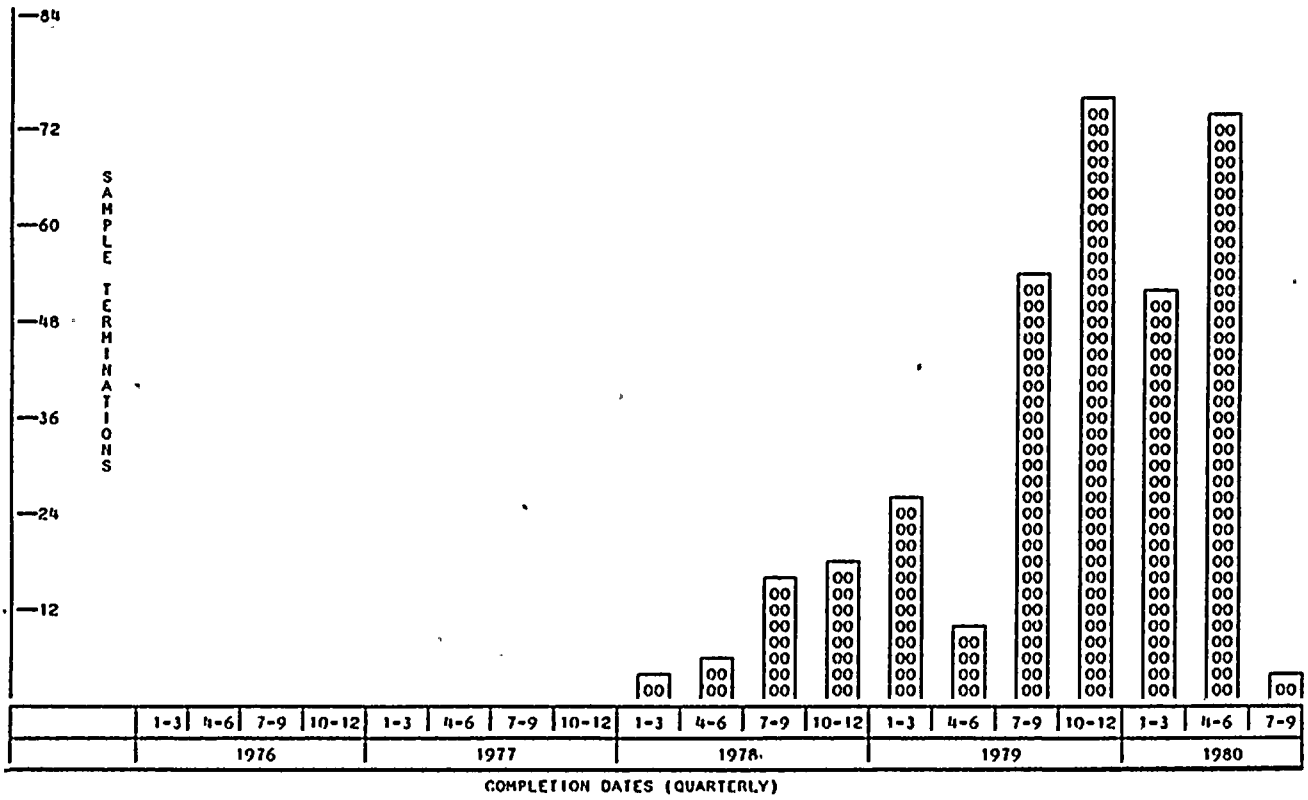
CONTRACT 215 LARGE-BORE HANGER SAMPLE

Figure 6-1b



CONTRACT 218 CABLE TERMINATION POPULATION

Figure 6-2a



CONTRACT 218 CABLE TERMINATION SAMPLE

Figure 6-2b

6.1.3 Special Tasks

6.1.3.1 Deficiency Document Review

The determination of the candidate population of design-change documents, the segregation of documents into generic groups, the evaluation of past activities and special programs, and the random selection follow essentially the same process as that described for active contracts in Section 6.1.1.

6.1.3.2 Personnel Qualifications Review

This task utilizes the results of reviews conducted in other elements of the Program, and does not, in itself, include a sampling process.

6.1.3.3 Receiving Inspection Review

This task uses information obtained from a combination of 1) inspections in other elements of the Program, and 2) repeat receiving inspection of 100% of the hardware in storage at the time of the stop work order. The task does not, in itself, include a sampling process.

6.1.3.4 Grout Evaluation

The sampling and testing of grout microcores was accomplished in three phases. In the first phase, samples of one type of grout were selected randomly from one contract to determine the extent of an identified problem. This effort was later extended in the second phase to address a total population of all grout types in all contracts. Sampling of grout microcores was extended in the third phase to meet criteria established in NRC IE Bulletin 79-02,[21] for achieving a 95% confidence level that defects could exist in less than 5% of the population.

6.1.3.5 Cast-In-Place Concrete Evaluation

A technical review of essentially all quality records, procedures, specifications, and test results in all contracts which provided QC I or QC II SC I concrete construction in the plant, was directed to characterizing the quality of that work. The task does not, in itself, include a sampling process.

6.1.3.6 NDE Verification

The total population of NDE work completed prior to July, 1980, was determined by review of all contracts which produced safety-related work. An evaluation was then made of other related programs to ascertain verification activities already performed. Random samples were selected from the resultant population to meet the criteria established in IE Bulletin 79-02.

6.2 Inspection Philosophy

6.2.1 Generic Problem Areas

A set of Generic Problem Areas (GPA's) was developed prior to performing any reinspections. These GPA's were compiled from a review of the following items:

- o NRC Inspection Reports
- o 50.55(e) Reports
- o Restart Findings
- o System Walkdowns

The GPA's consist of a list of 50 areas where problems had been identified on work completed prior to July, 1980. The purpose of the GPA's was to ensure, whenever possible, that reinspections adequately addressed the concerns over previous work. For active contracts, this was achieved by assigning the GPA's to all applicable contractors and requiring that the review process address each GPA. The ability of the reinspection to address the GPA is, of course, dependent upon the extent the problem remains visible in the final configuration.

The list of GPA's is covered more fully in Volume IV, Book I.

6.2.2 Personnel Independence

The hardware inspections and document reviews for active contracts were performed by either the contractors' QC inspectors or Bechtel QC engineers. The BQC engineers were obviously independent of the original inspections. The inspections performed by the contractors on their own work were performed by subcontractors or by the contractors' own QC personnel and surveillance of this was performed by BQC. In the latter case, the inspection personnel were not allowed to be those who performed the original inspection.

The PP&IA and Special Tasks elements were performed by Supply System or BPC personnel who were independent of the designers and constructors who performed the original work.

6.2.3 Inspection Scope

The reinspections of hardware were complete, repeat, final, visual inspections of the hardware components. These inspections were performed either to current contractor procedures, which, for active contracts, had been reviewed and approved during the Restart Program, or to new instructions or procedures. In general, disassembly or destructive work was not performed in order to repeat the inspections. However, sandblasting of major welded components was performed in order to adequately and critically examine the weld quality on pipe supports and structural steel.

Inspections of code-stamped items from ASME vendors were not reinspected for weld quality, nor were standard off-the-shelf components reinspected, provided that proper surveillance had been performed on the vendor. This is documented as Key Decision #2[22] in the QVP. The code data reports for ASME hardware are considered to be objective evidence of acceptability for these items, since they provide legal documentation of an independent inspection.

The document reviews were repeat technical reviews and were performed in accordance with current approved procedures on the quality records that support the hardware selected for reinspection.

The review scope of the Special Tasks element is adequately addressed in the descriptive information provided in Section 4.0.

6.2.4 Inspection Schedule

For active contracts, the inspections were performed and the results evaluated prior to turnover of a startup system from BPC to the Supply System. This maintained the priority over on-going work, and is documented as Key Decision #1[23] in the QVP. Although some items were inaccessible for reinspection, no items were made inaccessible by work performed after July, 1980.

For inactive contracts, inspections were performed as soon as practical after the need for reinspection was identified.

6.3 Inspection Results Evaluation

This section presents the methodology for evaluating inspection and review results.

6.3.1 Active Contracts

The scope of reinspections varies greatly from contract to contract and hence the complexity of an analysis of the reinspection results also varies greatly. The deficiency evaluation process is described in this section for the most complex contract. The same major steps were applied to all contracts, but the specific details are simpler. The major steps of the deficiency evaluation process are:

- Sort the negative inspection results for common deficiencies, e.g., undercut, undersize, as-built variance, etc.

- Check for deficiency coverage by a special related 100% inspection program. Eliminate these from further analysis, e.g.:

  - Arc strike program

  - As-built program

  - Hanger balancing

NOTE: Inspection programs performed under BPC's current QA program are corrective programs, where necessary.

- Review common deficiencies (not covered by related programs) for safety significance:

  - Consider specification and code requirements, SAR commitments, etc.

  - Consider multiple deficiencies on components.

  - Determine remaining design margins with deficiency.

  - Determine likelihood and probable cause of failure, i.e., seismic event, design loading, etc.

  - Extrapolate identified deficiencies to population not reinspected.

- If deficiencies are determined to be safety significant, sort for common causes and examine characteristics surrounding the deficiencies, such as (for contract 215):

  - Welder

  - QC Inspector

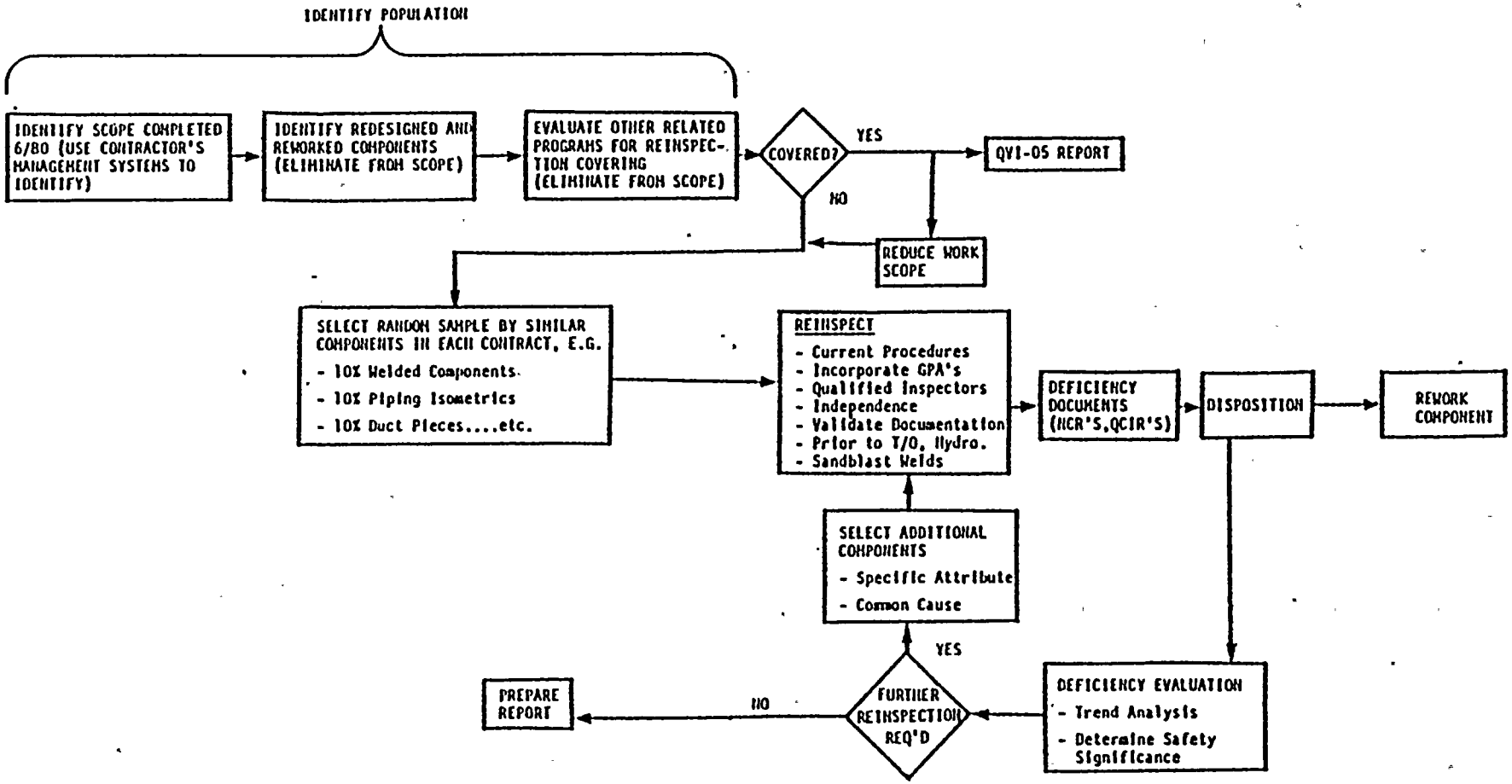
  - System

  - Component

- Collect results of individual steps, search for common causes (e.g., QC Inspector vs number of weld deficiencies).

- Perform further reinspection of the identified problem area.

The entire reinspection and results evaluation process is shown in Figure 6-3.



QUALITY VERIFICATION PROGRAM REINSPECTION PROCESS LOGIC DIAGRAM

Figure 6-3

6.3.2 Prepurchase and Inactive Contracts

The major steps of the deficiency evaluation process for PP&IA contracts closely follow those for the active contracts:

- o Sort the negative inspection or review results for common deficiencies (weld undersize, wrong material, etc.) and by commodity (valves, pumps, motor control center, etc.).
- o Analyze the sorted results to determine the safety significance of deficiencies.
- o Analyze the sorted results to determine if generic or repeating trends exist. If so, analyze further for common causes (same welder, same QC inspector, etc.).
- o Review the results of trend analysis and the determination of safety significance. Determine whether further inspection is required.
- o If further inspection is required, select additional components for reinspection, based on common causes of deficiencies and specific attributes found deficient.

6.3.3 Special Tasks

6.3.3.1 Deficiency Document Review

The sequence of steps for the evaluation of document dispositions found technically inadequate in this review follow essentially the same process as that for active contracts:

- o Sort the discrepant documents by type, contract, dispositioning engineer, discipline, and date of disposition.
- o Submit the discrepant dispositions for review by PQA and BRI to determine safety significance and corrective action requirements.
- o Review sorted documents for generic trends (same dispositioner, same contract, etc.), and record reslts.
- o If additional review is determined to be required, select an enlarged sample based on the trend analysis results (contract, document type, etc.).

6.3.3.2 Personnel Qualifications Review

The Personnel Qualifications Review is an analysis other elements of the QVP which ensures the competency and therefore the qualifications of those associated with quality affecting work. The process for the analysis of deficiencies discovered in these programs is discussed throughout this section. Two general areas are covered:

- o Technical inadequacy of dispositions by engineering personnel is addressed in the Deficiency Document Review.
- o Substandard performance by nonengineering personnel is addressed in active contracts, PP&IA contracts, NDE review, and others.

If a programmatic deficiency is found during this review, it is addressed through the existing management corrective action request system.

6.3.3.3 Receiving Inspection Review

The Receiving Inspection Review is an analysis of the effectiveness of several site programs to ensure the adequacy of material installed or in storage awaiting installation at the time of the stop work order. These programs include the active and PP&IA contract reviews, test and startup program, and special reviews. The process of analysis of deficiencies is presented throughout this section. Generic deficiencies identified in other reviews, as well as programmatic deficiencies identified as a result of this review, are resolved through the existing management corrective action request system.

6.3.3.4 Grout Evaluation

The sequence of steps for the evaluation of grout compressive-strength-test results which fail to meet specified requirements is as follows:

- o Sort nonconforming results by grout type, installing contractor, use, and date of installation.
- o Review sorted results for generic trends (same contractor, same grout application).

- o Submit noncomforming results to BRI for a comparison and analysis of test results to design requirements and corrective action if required.

- o Increase sample size in accordance with IE Bulletin 79-02 sampling requirements if BRI review of nonconforming test results indicates the grout strength is not acceptable.

6.3.3.5 Concrete Evaluation

The concrete quality evaluation is a collection, trend analysis, and discussion of quality issues in all contracts which installed concrete. Generic deficiencies identified in the contract work were resolved through the management corrective action programs in effect at the time of construction. These formed the basis for the evaluation.

6.3.3.6 NDE Verification

The actions associated with evaluation of deficiencies in NDE verification are essentially the same as those for active contracts. Sample sizes are increased in accordance with IE Bulletin 79-02 requirements.

SECTION 7.0

PROGRAM RESULTS

This section presents the quantitative results of the QVP reinspections of hardware and reviews of quality records, procedures, and design change documents. Those instances where further investigation was necessary are also identified.

7.1 Active Contracts

7.1.1 Contract 213A, PDM

Pittsburgh-Des Moines Corporation (PDM) was responsible for the installation of components and piping for the containment. A substantial amount of the pre-1980 work was reinspected and/or reworked to resolve a major Corrective Action Request (CAR) generated during Restart. Of the hardware not addressed by the CAR, a sample of 40 items, representing weld pads, pedestal connections, downcomer attachments, and penetrations was selected from a population of 208 items. As a result of the reinspection of this hardware, the sample was increased in two areas (weld pads - 100%, pedestal connections - 20%) for a total sample of 82. The only safety-significant deficiencies were identified on weld pads, where the inspection covered them all; the ten significant deficiencies were reworked.

7.1.2 Contract 215, WBG

Wright-Schuchart-Harbor/Boecon/GERI (WBG) was responsible for the installation of mechanical systems and equipment for the plant, and certain structural steel in the containment drywell. A large portion of the pre-1980 work has been redesigned and/or reworked, or reinspected by special related programs. The reworked hardware is not covered in the figures presented below.

Samples were selected in the areas of piping, hangers, and structural steel:

- Piping - A sample of 128 isometrics (1700 welds) was selected from a population of 1033. There was one increase in sample size during performance of this program (15, increased to 19 small-bore isometrics because of undersized socket welds). A total of 11 deficiencies identified in the remaining reinspections were reworked, although later analysis showed none would have failed in service. Engineering analysis of reinspection results indicated a potential problem, however. To resolve it, the flange-connection socket welds in small-bore high-energy systems are being reinspected for undersized welds.

- Hangers - A sample of 661 hangers (9000 welds) was selected from a population of 6300. There were no increases in sample size. Forty-six deficiencies identified in the reinspections were reworked, although later analysis showed none would have failed in service. One recurring deficiency in this group was undersized welds, which is in part the reason for the Project's decision to repeat the as-built effort on pipe supports.

- Structural Steel - A sample of 152 structural components (1700 welds) was selected from a population of 899 beam connections, and pipe-whip-supports. One increase in sample size was made because of misalignment of members at a particular type of connection (100%, to four beam seats). Forty-two deficiencies were reworked, although later analysis showed none would have failed in service.

7.1.3 Contract 216, TWC

The Waldinger Corporation (TWC) was responsible for the installation of HVAC and plumbing systems. A sample of 151 items, representing ductwork, equipment, and supports, was selected from a population of 1495 items. No significant deficiencies were identified and no increases in sample were necessary.

7.1.4 Contract 217, Sentry

The Sentry Automatic Sprinkler Company was responsible for the installation of fire protection systems. A sample of 449 brackets and conduit supports was selected from a population of 3312 items. No significant deficiencies were identified and no increases in sample were necessary.

7.1.5 Contract 218, F/L

Fischbach/Lord Electric Company (F/L) was responsible for the installation of electrical systems and equipment. A sample of 1824 items was selected from a population of 17,700 cables, terminations, equipment, and penetrations. No significant deficiencies were identified, but the A/E considered it advisable to confirm that terminations were checked for proper crimping again during system line-up tests. This has been confirmed, and no other increases in sample were necessary.

7.1.6 Contract 219, OBC

Oliver B. Cannon and Son, Inc. (OBC) was responsible for the containment drywell coating system. Because of construction wear and tear, the coating was fully reinspected and extensively reworked.

7.1.7 Contract 220, JCI

Johnson Controls, Inc. (JCI) was responsible for the installation of control and instrumentation systems. JCI performed a reinspection/as-built program on all QC-I and SC-I installations, including 4812 components and 45,000 feet of tubing and piping. Deficiencies identified were corrected as part of this 100% program.

7.1.8 Contract 234, OBC

Oliver B. Cannon and Son, Inc. was responsible for finishing the coating system for the containment wetwell, which also received a full reinspection because of construction wear and tear, and was reworked extensively.

7.2 Inactive Contracts

7.2.1 Contract 205, S/E

Stewart/Erikson (S/E) was responsible for construction of the reactor building concrete substructure. Review of the quality records and contract history, and analysis of concrete placement records resulted in no safety-significant deficiencies being identified.

7.2.2 Contract 206, B/C

Bovee/Crail Construction Company (B/C) was responsible for concrete and steel construction of major plant buildings and spray ponds. The review of quality records and contract history resulted in a decision to reinspect a sample of welded steel construction. A sample of 37 beams was selected from a population of 186 structural members. One increase in sample size was made because of two cases of deficient welding on beam moment-connections (100%, to 30 moment-connections). Concrete construction was not accessible for visual reinspection (except superficial surface check), but analysis of placement records and procedures resulted in no safety-significant deficiencies being identified.

7.2.3 Contract 206A, PKS

Peter Kiewit Sons Company (PKS) was responsible for general construction of major plant buildings. The review of quality records and contract history, and the analysis of concrete placement records and procedures resulted in no safety-significant deficiencies being identified.

7.2.4 Contract 207, PDM

The Pittsburgh-Des Moines Corporation was responsible for the steel superstructure of the Reactor and Turbine-Generator Buildings and the Circulating-Water Pumphouse. The review of quality records, procedures, and contract history resulted in no safety-significant deficiencies being identified; and a cursory field inspection of the Reactor Building superstructure disclosed no deficiencies.

7.2.5 Contract 209, RI/L

Rigging International/Lampson, Inc. (RI/L) was responsible for rigging, lifting, and setting the reactor pressure vessel, head, and other reactor components. Review of quality records and procedures resulted in the determination that the services provided by this contractor were acceptably performed.

7.2.6 Contract 210, PKS

Peter Kiewit Sons Company was responsible for general and architectural construction in the major plant buildings, including doors, siding roofing, concrete, and steel. The review of quality records and contract history, and analysis of concrete placement records and procedures, resulted in no safety-significant deficiencies being identified. Earlier problems associated with ray-proof doors were resolved by post-1980 construction.

7.2.7 Contract 213, PDM

The Pittsburgh-Des Moines Corporation was responsible for construction of the ASME containment vessel. Because of the large amount of welding in this work, a sample of 60 weld radiographs and 60 welds were selected to establish a 95% confidence that at least 95% of the original NDE work was adequate. No NDE deficiencies were revealed by this inspection, but lamellar discontinuities were discovered in a weld pad. The Project is currently pursuing the resolution of this issue, including its generic implications.

A sample of 280 feet of weld was also selected for visual reinspection, resulting in the identification of a fillet-weld undersize condition on attachments to the containment. The records show this condition had already been identified, evaluated, and determined to be acceptable in the past.

7.2.8 Contract 225, McMillan

McMillan Brothers Construction Company was responsible for construction of the Make-up Water Pumphouse. Review of the quality records and contract history, and analysis of concrete

placement records resulted in no safety-significant deficiencies being identified. A cursory field inspection of the pumphouse also disclosed no deficiencies.

7.2.9 Contract 226, Sime

Sime Construction Company was responsible for excavation for the Reactor Building foundation, and associated backfilling. Review of the quality records and contract history resulted in no deficiencies being identified.

7.2.10 Contract 233, Shaw

The B. F. Shaw Company was responsible for Spray Pond piping and supports. Review of the quality records and procedures resulted in no safety-significant deficiencies being identified. A sample of eight pipe supports was selected from a population of approximately 60, resulting in the addition of Spray Pond supports to the Project's as-built program. Seven pipe supports were reinspected for weld quality, identifying a number of discrepancies which are currently under review by the A/E. If any of these are determined to be significant deficiencies, the inspection sample will be increased appropriately.

A sample of piping was also reinspected, including proper weld-out of weld-o-let fittings, with no deficiencies being identified. Another indicator of pipe welding quality is provided by the NDE Verification Task.

7.2.11 Contract 235, GE I&SE

General Electric Installation and Service Engineering was responsible for modifications to instrument control boards. Review of quality records and contract history resulted in no deficiencies being identified. Two major switchgear components containing GE I&SE modifications were reinspected as part of the prepurchase contracts verification. No deficiencies were identified.

7.2.12 Contract 6426, WSH

Wright-Schuchart-Harbor (WSH) was responsible for interim continuation of the concrete construction begun by the defaulted contract 206. Review of quality records and contract history, and analysis of concrete placement records and procedures, resulted in no safety-significant deficiencies being identified.

7.3 Prepurchase Contracts

There were 49 prepurchase contracts providing mechanical, electrical, HVAC, and miscellaneous components to the Project. These contracts were reviewed in two phases, as were the inactive site contracts. Results of the major review activities are combined and summarized below.

- o Documents - The review of quality records and contract performance histories for all contracts resulted in isolated deficiencies being identified, but only in two contracts were there indications of an adverse trend: cranes and diesel-generators. Reinspection follow-up 1) resolved open issues on the diesel-generators, and 2) led to an increase in test-record review for cranes, eventually resulting in a Project program to retest all cranes and hoists.

- o Vendor Qualifications - Review of vendor qualifications was accomplished by sampling the nuclear industry experience history of 45 vendors, resulting in one contractor whose qualifications could not be confirmed (jib-crane vendor, no longer in business).

- o Procedures - A technical review was performed by sampling 187 procedures from 36 contracts, resulting in no safety-significant deficiencies being identified.

- o Hardware - In addition to the crane and diesel-generator reinspections mentioned above, a sample of 89 mechanical, electrical, HVAC, and other components was selected from a population of 643 items representing 29 individual vendor contracts. No safety significant deficiencies were identified in this equipment.

7.4 Special Tasks

7.4.1 Deficiency Document Review

Burns and Roe was responsible for review and disposition of design-change documents and deficiency documents used on the Project. A sample of 658 deficiency documents was selected for technical review. All dispositions were found to be adequate.

The contractors were also responsible for certain limited design work. A sample of 149 contractors' internal deficiency documents was selected for technical review, with no dispositions found to be inadequate.

7.4.2 Personnel Qualifications Review

A qualitative review was performed of 1) 20 site construction contracts and two construction testing contracts, 2) the A/E review of vendor submittals, and 3) the performance of engineering personnel dispositioning deficiency documents. The review results show that both construction and engineering personnel performed competently, and that individual cases of unqualified personnel involved in prior work had already been identified by the Project.

7.4.3 Receiving Inspection Review

Repeat receiving inspections of material in storage at the time of the stop work order yielded no significant deficiencies.

Reinspection of installed material is characterized by the information throughout this Results section of the report. On the whole, receiving inspections were effective.

7.4.4 Grout Evaluation

A statistical sampling method conforming with IE Bulletin 79-02 was used to investigate and test the strength of all grout-types installed by contractors at WNP-2. Sand-cement grout was found to be unsatisfactory and was replaced where necessary. This issue has been separately reported as 10CFR50.55(e) Item No. 73.

7.4.5 Concrete Evaluation

Review of concrete quality and placement records for 14 contracts responsible for production, installation, and testing of concrete, and review of procedures used for the work of six major concrete contractors at WNP-2, resulted in no unresolved deficiencies being identified. Characteristic problems encountered during construction included reinforcing steel misplacement, honeycombing, and formwork misalignment.

7.4.6 NDE Verification

A sample of 60 radiographs were reviewed, repeat penetrant-testing was performed on 60 welds, and repeat magnetic-particle testing was performed on 95 welds, all to verify the prior non-destructive examination performed by seven NDE contractors. No significant NDE deficiencies were identified, however, a problem with a containment weld pad was identified (discussed in Section 7.2.7).

SECTION 8.0

QVP/CAT COMPARISON

The QVP evaluation of the NRC's Construction Appraisal Team (CAT) findings consists of a review to determine the similarity of conclusions with those of the QVP and to assess the significance of the results. This section presents a comparative analysis of the CAT inspection findings versus those of the QVP.

8.1 Scope of Evaluation

The categories listed below represent the construction areas investigated during verification by the QVP and inspection by the CAT:

- o Electrical and Instrumentation
- o Mechanical
- o Welding and Nondestructive Examination
- o Civil/Structural

The analysis included hereinafter is arranged in these categories.

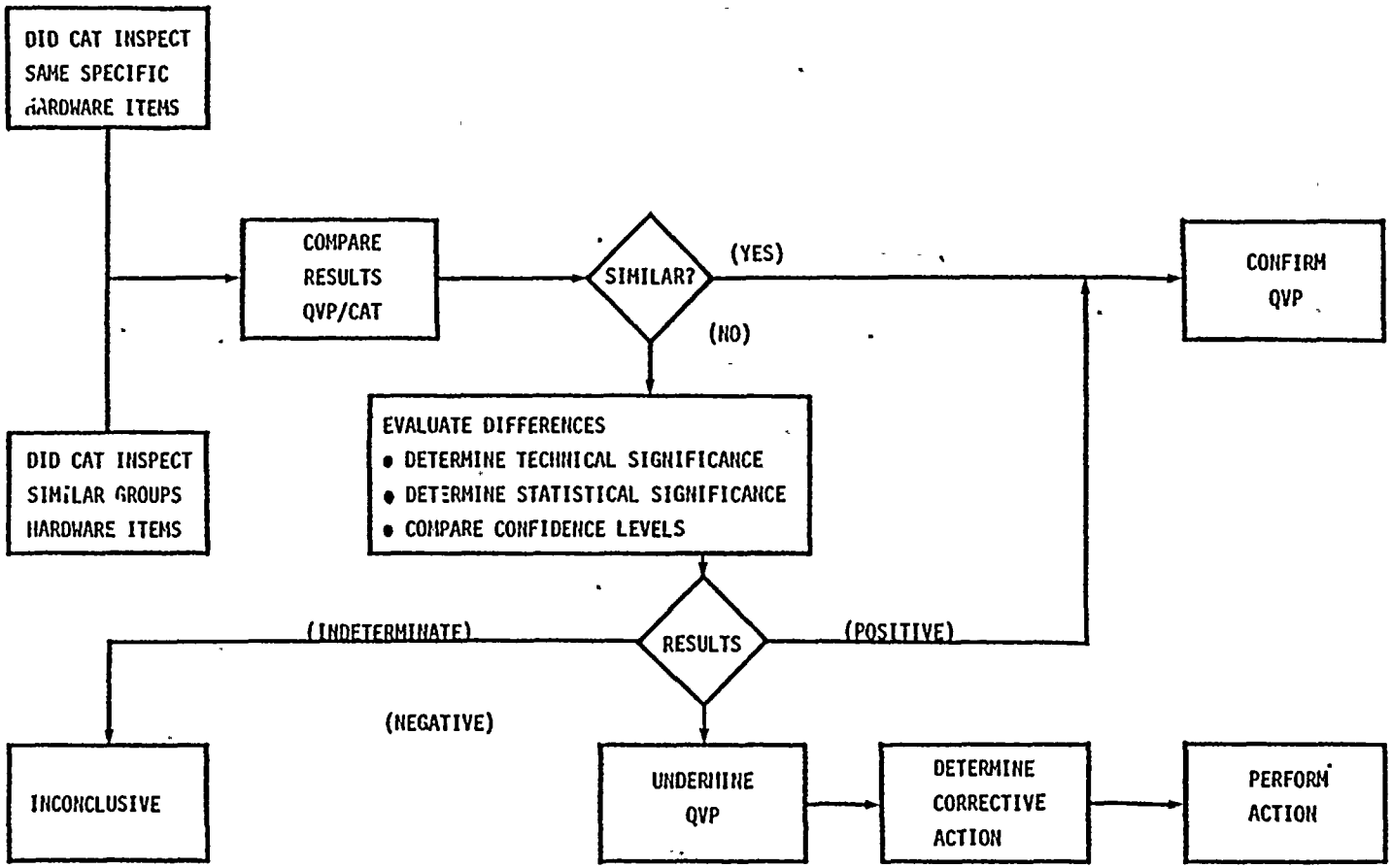
The evaluation is based upon the scope of the QVP and does not, therefore, address all CAT results. The Project's response to CAT findings is covered elsewhere[24].

8.2 Program Description

The evaluation consists of a review of the report issued by the CAT to determine all the items inspected, and each item installed prior to July 1980. The hardware items on the resulting list are compared with the list of QVP-reinspected items to identify those specifically reinspected by both programs. Hardware which is similar is also identified, to aid in broader comparison of results.

Next, the findings of each program are compared on both, a specific-item basis and a similar-item basis, to determine the similarity of findings. Differences are evaluated and results are reported. Significant differences requiring corrective action are individually addressed.

A logic diagram for the evaluation process is presented in Figure 8-1.



EVALUATION OF RESULTS OF CAT FINDINGS VS QVP - LOGIC DIAGRAM

Figure 8-1

8.3 Evaluation

Hardware items inspected by the CAT, which were installed and accepted prior to July, 1980, are collected in the categories identified in Section 8.1, and presented in Tables 8-A through 8-D. The numerical results of the inspections are included and compared in the tables. CAT-inspected items which do not appear in the tables are those which were completed after July, 1980, or are issues which have arisen after that date.

8.4 Comparison Results

8.4.1 Electrical and Instrumentation

There were three cases in which the same hardware items were inspected by both the CAT and the QVP. In two cases, identical findings were recorded. In the third case, Containment Instrument Air System, the minor deficiencies identified by the CAT are, most likely, construction damage which occurred since the QVP inspection of that system one year earlier. Otherwise, the results for the third case are also identical.

Overall, the results of both inspections compare favorably, regarding consistency of findings. The CAT report concludes that activities in the electrical and instrumentation construction areas appear to be adequate. This is the same conclusion reached by the QVP.

8.4.2 Mechanical Construction

There were no cases in which the same hardware items were inspected by both the QVP and the CAT so, no direct comparison can be made. The CAT identified a trend of inconsistency between design drawings and pipe supports, a situation also identified in QVP reinspections.

Even though only limited information can be discerned from this comparison due to the wide variation in number of items examined by both programs, the CAT results would still appear to support QVP conclusions.

8.4.3 Welding and NDE

There was one area in which the same items were examined by both the QVP and the CAT. Contract 215 (WBG - Mechanical) radiographs of pipe welds previously re-examined by Bechtel and the Supply System were also reviewed by the CAT. Findings were essentially identical, i.e., film density deficiencies exist in the original WBG radiographs, which the Project was aware of and has separately addressed.

In the area of piping inspection, the CAT identified a weld undersize condition on weld-o-let fittings, which was not identified by QVP inspections. To resolve the existence of a trend of these deficiencies, the Project has performed a reinspection of all weld-o-let fittings installed by the mechanical and instrumentation contractors. The weld-o-lets and piping in the spray ponds were randomly inspected for this condition.

The QVP identified a problem with undersized welds on small bore flange-connection socket welds. This area was apparently not addressed by the CAT.

Other than the above, conclusions drawn in the reinspection programs are similar.

8.4.4 Civil/Structural Construction

There was one area in which the same hardware items were examined in both programs, welded beam connections. Inspection findings were identical.

In other areas, the CAT checked structural steel bolts retorqued by the Project's existing program and found no discrepancies. Concrete and reinforcing steel were inspected by CAT by physical testing and destructive examination methods. The QVP addressed concrete construction by technical review of procedures and quality records for compliance with requirements. The basic results of both programs are the same. CAT members' concerns over the significance of concrete inspection findings have been separately addressed by the Project.

Specific Items/ Inspection Charactistic	Total Items Inspected By CAT	Items Inspected by CAT Installed Prior to 7/80	Deficiencies Identified by CAT On Pre-7/80 Items	Specific Items Inspected by Both CAT & QVP	Comparison of Specific Item Results	QVP Inspection of Similar Items	Deficiencies Identified by QVP
Cable Routing	18	10	1	1	Identical Findings Recorded	293	3
Cable Identification	18	(1) 10	1	0	No Basis for a Specific Comparison	5,665	6
Cable Termination	189 Cable Ends, 928 Terminations	(2) 189 Cable Ends, 928 Terminations	8	0	No Basis for a Specific Comparison	344 Cable Ends 1516 Terminations	44
Electrical Equipment	30	30	1	1	Identical Findings Recorded	13	1
Electrical Penetration	7	7	0	0	No Basis for a Specific Comparison	2	0
Instrument Panel	6	1	1	0	No Basis for a Specific Comparison	61	0
Containment Instrument Air	Entire System	Entire System	8 (Minor)	5 ISOs	No Basis for a Specific Comparison	5 ISOs	35

(1) QVP unable to identify actual of identifiers examined by CAT. Multible labels in cables.
(2) QVP unable to sort Pre 7/80 items for this statistic. Number shown indicates total items examined by CAT.

ELECTRICAL AND INSTRUMENTATION STATISTICS
Table 8-A

Specific Items/ Inspection Charactistic	Total Items Inspected By CAT	Items Inspected by CAT Installed Prior to 7/80	Deficiencies Identified by CAT On Pre-7/80 Items	Specific Items Inspected by Both CAT & QVP	Comparison of Specific Item Results	QVP Inspection of Similar Items	Deficiencies Identified by QVP
Pipe Supports	49 Supports	7 Supports	0	0	No Basis For Specific Comparison	409 Supports 8000 Welds	25
Radial Beam Stiffener Plates	1	1	1	0	No Basis For Specific Comparison	137 Structural Steel Members 1500 Welds	N/A (See Table 8-C)
Piping Isometrics	18	5	0	0	No Basis For Specific Comparison	128	N/A

MECHANICAL STATISTICS
Table 8-B

Specific Items/ Inspection Charactistic	Total Items Inspected By CAT	Items Inspected by CAT Installed Prior to 7/80	Deficiencies Identified by CAT On Pre-7/80 Items	Specific Items Inspected by Both CAT & QVP	Comparison of Specific Item Results	QVP Inspection of Similar Items	Deficiencies Identified by QVP
Piping Isometrics	24	7	5	0	No Basis For Specific Comparison	57	0
Weld Radiograph Review	126	93	4 Later shown Not To Be Deficiencies	52	QCP did not Identify Deficiencies On Same Items	2690 Radiographs	N/A

WELDING AND NDE STATISTICS
Table 8-C

Specific Items/ Inspection Charactistic	Total Items Inspected By CAT	Items Inspected by CAT Installed Prior to 7/80	Deficiencies Identified by-CAT On Pre 7/80 Items	Specific Items Inspected by Both CAT & QVP	Comparison of Specific Item Results	QVP Inspection of Similar Items	Deficiencies Identified by QVP
In-Situ Concrete Quality	14	14	0	0	N/A	0	N/A
Reinforce-ment Steel Placement	12	12	10	0	N/A	0	N/A
Structural Steel Bolted Connections	39	39	0	100% Inspected By Related Program	N/A	100% Inspection By Related Program	N/A
Structural Steel Welded Connections	40	40	6	12	Identical Findings Recorded	137 Structural Steel Members Approximate 1500 Welds	42

CIVIL/STRUCTURAL STATISTICS
Table 8-D

SECTION 9.0

REFERENCES

1. Letter No. EA-80-020 to NO Strand, WPPSS, from Victor Stello, Jr., NRC, dated 06/17/80 Subject: 10CFR50.54(f) Request Regarding Quality Assurance

2. Ibid., Attached Notice of Violation

3. Letter No. GO2-80-153 to Victor Stello, Jr., NRC, from NO Strand, WPPSS, dated 07/17/80 Subject: WPPSS Nuclear Project No.2, Docket No.50-397, EA-80-020, Notice of Violation and Additional Information - 10CFR50.54(f)

4. Letter No. WNP2MCL-F-80-0113 to All Contractors from DE Dobson, WPPSS, dated 07/17/80 Subject: WPPSS Nuclear Project No.2, Contract 2808, Stop Work Order, Quality Class I Work, #009

5. Letter No. GO2-80-223 to RH Engelken, NRC, from RL Ferguson, WPPSS, dated 10/16/80 Subject: WPPSS Nuclear Project No.2, Docket No.50-397, First Progress Report - 10CFR50.54(f)

6. Letter No. GO2-80-287 to RH Engelken, NRC, from RG Matlock, WPPSS, dated 12/29/80 Subject: WPPSS Nucler Project No.2, Docket No.50-397, Second Progress Report - 10CFR50.54(f)

7. RCSW Manual, Vol. II, Instruction PJT-01, Plan--WNP-2 Restart of Safety Related Work, dated 07/31/80, Revision 1, dated 12/17/80, Revision 2, dated 01/26/81

8. Ibid., Vol. III, Instruction QVI-01, QVP Program Description, WNP-2 Quality Class I Systems Completion Plan, dated June 18, 1981

9. Ibid., Vol. III

10. Ibid.

11. RCSW Manual Vol. II - Project Instructions

12. Meeting Agenda, March 17, 1983, at WNP-2 between NRC, Region V and Supply System

13. Letter No. QA-JRZ-82-215 to RG Matlock, WPPSS, from RB Glasscock, WPPSS, dated 06/03/82 Subject: Assessment of WNP-2 Quality Verification Program - Report

14. WNP-2 Plant Verification Program, Revision 1, October, 1982

15. WPPSS Corporate Licensing & Assurance Audit No. 82-221 of Bechtel Power Corporation - WNP-2, dated August 30-September 3, 1982

16. Letter No. CA-JRZ-83-023 to RG Matlock, WPPSS, from TJ Houchins, WPPSS, dated 02/15/83 Subject: Corporate Licensing and Assurance Audit 83-242

17. Letter No. QA2-82-023 to RG Matlock, WPPSS, from RT Johnson, WPPSS, dated 01/25/82 Subject: PQA Audit Report WNP2-82-1, Quality Verification Program

18. WPPSS Surveillance Report No. 82-148-SS, Quality Verification Program dated 10/18-25/82

19. Meeting Agenda, March 17, 1983, at WNP-2 between NRC, Region V and Supply System

20. Meeting Agenda, June 21, 1983 at WNP-2 between NRC, Region V and Supply System

21. NRC IE Bulletin 79-02 to NO Strand, WPPSS, from RH Engelken, NRC, dated 03/08/79 Subject: Pipe Support Base Plate Designs Using Concrete Expansion Anchor Bolts

22. Letter No. WPBEC-C0500-F-82-283 to TA Mangelsdorf, BPC, from RG Matlock, WPPSS, dated 03/26/82 Subject: Quality Verification Program Key Decision No. 2

23. Letter No. WPBEC-C0500-F-81-0803 to TA Mangelsdorf, BPC, from WC Bibb, WPPSS, dated 09/03/81 Subject: Quality Verification Program Key Decision No. 1

24. Letter No. G02-83-732 to JB Martin, NRC, from CS Carlisle, WPPSS, dated 08/15/83 Subject: Nuclear Project 2 - Construction Appraisal Team Issues

ENGINEERING REPORT

WNP-2 ENVIRONMENTAL QUALIFICATION REPORT FOR SAFETY RELATED EQUIPMENT

SEPTEMBER 1983

purpose of the plant specific analysis is to demonstrate that sufficient margin exists between the GE Generic Profile and WNP-2 plant specific profile and to define the post accident conditions as required by NUREG 0588 (Figure C2).

3.2.2 Spray

Operator initiation of a demineralized water spray could be used in primary containment at WNP-2 to mitigate the effects of an accident. No credit for this operator action has been taken in defining the temperature/pressure conditions inside containment. However, since spray impingement could occur (by operator action) its effect on Class 1E equipment inside primary containment has been evaluated.

3.2.3 Radiation Inside and Outside Containment

The accident radiation environments in the primary containment has been defined according to Section II.B.2 of NUREG 0737 (Reference 7) and NUREG 0588, Rev. 1. The calculated accident environment is based on the most severe nonmechanistic design basis accident during or following which equipment must function. This includes consideration of the entire spectrum of FSAR Chapter 15 accidents which can lead to a degraded core condition. The source term assumptions for postulated accidents are consistent with those defined in NUREG 0588 and Regulatory Guides 1.3 and 1.7. The source terms are calculated using the ORIGEN code (Reference 8).

For the review performed in this report the radiation environment in the primary containment was defined per Reference 19. This is a plant specific evaluation. Reference 19 contains the methodology and results of this evaluation. The results of this evaluation are provided in Appendix B for general areas of the containment and Reactor Building and also in Appendix C for each specific piece of equipment.

The radiation environment in the reactor building (secondary containment) is defined according to Section II.B.2 of NUREG 0737 (Reference 7) and

NUREG 0588, Rev. 1 and includes the sum of direct accident gamma dose, airborne gamma dose and 40-year normal gamma dose. The airborne dose is conservatively based on the maximum primary containment to reactor building leakage rate.

Airborne activity in both the containment and reactor building was calculated using the plateout assumptions of NUREG CR-0009 (Reference 9).

The reactor building (secondary containment) was divided into zones to define the equipment doses. The worst target (Class 1 component with the highest dose) in each zone was then chosen. The total integrated dose (TID) to this component was calculated using the QAD-P5A computer code (Reference 10). This TID was used as the required qualification level for most equipment in the zone. In some zones multiple target specific TID's were calculated where there was wide variation of radiation levels within the zone.

The methodology and results of the zone dose radiation evaluations are documented in calculation packages in Reference 11. Appendix B of this report contains a table of the radiation doses inside primary containment and the radiation zone maps for the reactor building. It should be noted that the containment and the reactor building radiation levels are six month integrated doses. Doses for equipment with shorter operating times were determined from the calculated packages in Reference 11 and are detailed in Appendix C on Equipment Qualification Report Summary Sheets.

3.2.3.1 Beta Radiation

The beta radiation effects on equipment important to safety are evaluated. Beta dose calculation and methods are presented in Reference 19 and 26.

Most equipment important to safety on WNP-2 are installed with watertight electrical conduit and are constructed such that beta produces surface effects only to the external housing of the equipment. Internal sensitive components within the equipment are not exposed. There are, however, some

However, equipment important to safety in primary containment is designed and installed to function in conditions which include high pressure, moisture, and water spray. Watertight electrical conduit and non-ventilated NEMA 3 and NEMA 4 equipment enclosures are specified. Where required, cable entry ports are sealed using Qualified Equipment Sealing methods. Where these conditions exist, beta is shielded from internal components and an evaluation of beta radiation is not required.

Some equipment, even though not of a ventilated design, has the potential during long-term exposure to varying high pressure and beta conditions of receiving some beta exposure. Equipment important to safety within the primary containment is reviewed and three potentially susceptable equipment types (terminal boxes with pressure relieving ports, continuous duty motors, and a few locations where exposed cabling was necessary) are identified. For these equipment types, detailed evaluation which included beta effects are performed.

Beta Evaluation Status

Evaluations have been completed for equipment important to safety identified in the Justification for Interim Operation (Table A, Qualified Status) contained in Appendix D. The remaining equipment important to safety, Table B and Justified components from Table A, will be evaluated as described above and any corrective actions completed prior to November 1985. 9/83

3.2.4 Flooding

The top of the main vents from the drywell to the suppression pool are approximately 12 inches above the drywell floor. This is the maximum flood level since any excess water would drain to the suppression pool. No Class 1E equipment or connections are located between the diaphram floor and the top of the downcomer vent pipes inside the wetwell except for the wetwell level system and wetwell temperature monitors which are totally enclosed in water tight conduit systems.

As required by NUREG 0803 (Reference 15), the effects due to line breaks in the Control Rod Drive system have been evaluated. No safety related equipment would be submerged due to a break in this system (Reference 16).

The possibility of flooding in the reactor building has been evaluated. The reactor building flooding analysis was completed (Reference 23 and Reference 25). The procedure used in this evaluation consisted of the following sequential steps:

1. Calculate the maximum source flow (gpm) for each room. Includes high energy and moderate energy lines.

2. Calculate the water depth using the following assumptions:

   - o Floor area used to determine water depth excluded floor opening areas, in order to allow for curbs and lips.

   - o Twenty minute operator reaction time was allowed per NRC Question 211.059.

   - o No exit flow was considered.

3. Perform a field walkdown to identify room exit paths (for drainage) and equipment located below conservative flood level for impacted areas.

4. Re-calculate flood level considering water exit paths.

5. List equipment still flooded following recalculation.

6. Perform a safe shutdown analysis.

7. List flooded equipment required for safe shutdown.

8. Protect, relocate, or qualify equipment required for safe shutdown that is impacted by flood analysis.

Modification of the drain system for 4 MCC Rooms was required by the Moderate Energy Pipe Break Analysis. The results of this shutdown analysis for flooding (Reference 24) indicate that WNP-2 can be safely shutdown with alternate safety related equipment not affected by flooding and that flooded equipment will not defeat accomplishment of the safety function. Based on this flooding is not a required qualification parameter for WNP-2 safety related electrical equipment in secondary containment. 9/83

The operator is alerted to flooding by leak detection sensors and can take action to initiate alternate safety systems not affected by flooding if required. As the operator is alerted to flooding, instrumentation that may subsequently become flooded and provide erroneous indication will not mislead the operator to take inappropriate action. 9/83

3.2.5 Temperature/Pressure Outside Containment

Class 1E equipment in the reactor building could be exposed to two postulated accident types: a LOCA/MSLB in primary containment or an HELB in the reactor building. These conditions were determined from References 5, 6, and 12. As explained in Section 4.0 of this report, equipment is evaluated to the worst accident environment in which it is required to function.

A LOCA/MSLB in primary containment would cause an increase in the reactor building's temperature and humidity. The maximum conditions are presented in Profile 4 of Appendix B (Reference 21).

The pressure/temperature effects of all postulated high energy line breaks in the reactor building were determined. Breaks in the following high energy lines were considered:

26" main steam line (envelops feedwater line break)

4" RCIC steam line
6" RWCU steam line
4" RWCU steam line
4" Auxiliary steam
3" Auxiliary steam

Temperature/pressure profiles were developed for all areas that could be affected by these breaks. These profiles are presented in Appendix B. In addition, it was verified that pressure/temperature affects from moderate energy line breaks in these areas are less than the high energy line breaks.

The accident profile due to a main steam line break in the steam tunnel was determined from Reference 5. The remaininq temperature/pressure profiles in the reactor building were developed using the RELAP4 and COMPARE MODIA computer models (References 13 and 14). Detailed modeling of compartments and fluid flow paths were made. Heat sinks were modeled using appropriate heat transfer correlations.

For areas of the reactor building secondary containment where no high energy line breaks affects are postulated but moderate energy line breaks could be present, it has been determined that the pressure/temperature profile number 4 (effects in secondary containment of a LOCA/MSCB inside containment) exceed the moderate energy pressure/temperature conditions. Therefore, equipment in the secondary containment is qualified to at least the pressure/temperature profile No. 4.

3.3 MILD ENVIRONMENT AREAS IN SECONDARY CONTAINMENT

A mild environment is an area in which the maximum temperatures, pressures and humidity are not expected to chanqe significantly during or following design basis events. In addition, the cumulative gamma radiation dose to equipment in these areas is below 10^4 rad (Reference 17). | 9/83

Some of the motor control center rooms in the reactor building are classified as mild environments. These rooms are isolated and serviced by Class 1 HVAC systems so the temperature, pressure and humidity conditions will not change significantly. Also, the total gamma radiation dose (normal + accident) in these rooms is less than 10^4 rad. | 9/83

Section 4.2.3 provides the Supply System's position on environmental qualification of safety related equipment in a mild environment.

A reasonable effort will be made to procure in kind equipment which are qualified to the requirements of 10CFR50.49. When this is not feasible, sound reasons to the contrary will be established consistent with NRC generic letter No. 8209 (April 20, 1982). Replacements in kind will be used which, at a minimum, preserve the present qualification status of equipment at WNP-2 (NUREG 0588, Category II). 9/83

If it is not feasible to procure in kind replacements, then a reasonable effort will be made to procure engineering approved substitutes to the requirements of 10CFR50.49. If it is not feasible to obtain such replacements then engineering approved substitutes will be procured to the present qualification status of equipment at WNP-2 (NUREG 0588, Category II).

Subcomponents

In kind spares will be used when available. Subcomponents used as identical spares for existing qualified equipment will be qualified to Category II as a minimum, by virtue of qualification of the related component.

If an identical spare is not employed, an engineering approved substitute, which does not degrade the qualification of the original, may be used.

5.0 QUALIFICATION RESULTS

The environmental qualification of the components identified on the Class 1E Equipment List and active Safety Related Mechanical List (Appendix A) has been evaluated. The status of the evaluations is presented on the Equipment Qualification Reports in Appendix C. A justification for interim operation pending completion of the full Environmental Qualification Program is complete (see Section 6 and Appendix D).

The Class 1E List (Appendix A) identifies the safety related electrical equipment, along with its respective qualification status. The available qualification documentation has been obtained and reviewed for this equipment. The reviews, supplemented by engineering analyses, have determined that most of the components meet the intent of NUREG 0588, Category II. In some cases, it has been determined that there is insufficient documentation to support complete qualification. The method for completing the qualification is included on the individual Equipment Qualification Reports in Appendix C. This equipment will be qualified by November 30, 1985.

The following closure activities are being completed for equipment important to safety identified in Table "A", Appendix D (i.e., that equipment required to be qualified or justified prior to fuel load).

- Field verification that equipment whose corrective action is replacement with qualified equipment has been accomplished prior to fuel load.

- Completion of corrective action of equipment interface has been accomplished prior to fuel load for primary containment equipment.

- Receipt of qualification documentation and completion of QID files (Q' Status).

The following activities are being completed for equipment important to safety identified in Table B and that equipment statused as "J" in Table A of Appendix D (i.e., that equipment that must be qualified by no later than November 30, 1985).

- Development of a detailed plan that assures final qualification of all equipment important to safety by November 30, 1985.

On-going activities that will continue throughout the life of the plant include:

- Review of Design Changes to assure qualified equipment is procured and installed in accordance with 10CFR50.49 as implemented by the WNP-2 equipment qualification program.

- Continuing input to the scheduled maintenance system for equipment replacement or required maintenance based on the Equipment Qualification Program results.

- Continuing review and modification of the SMS program based on results from Maintenance/Surveillance activities.

- Review of spares and replacement equipment to assure qualification level is maintained and upgraded where necessary.

- Continued participation in and review of industry efforts in the equipment qualification area and review of NRC notices, circulars and bulletins as they are received with respect to the equipment qualification.

11. EDS Nuclear Inc., Zone Dose Calculations, Series 0740-004-xxx.

12. Impell Corporation, Reactor Building Environmental Analysis, calculation 0740-032-137-THI, Rev. 0, dated September 9, 1983.

13. Idaho National Engineering Laboratory, "RELAP4/MOD5, A Computer Program for Transient Thermal Hydraulic Analysis of Nuclear Reactors and Related Systems", Volumes I and II, ANCR-NUREG 1335, September 1976.

14. COMPARE MOD1A - NUREG/CR-1185.

15. NRC Office of Nuclear Reactor Regulation, "Generic Safety Evaluation Report Regarding Integrity of BWR Scram System Piping", NUREG 0803.

16. Washington Public Power Supply System, "Supply System Response to NRC SER Issue - Pipe Breaks in BWR Scram Discharge Volume", Memo R. O. Vosburgh to C. D. Taylor, December 30, 1981.

17. EPRI, "Radiation Effects on Organic Materials in Nuclear Plants", Report NP-2129, Project 1707-3, November 1981.

18. Washington Public Power Supply System, "Acceptance Criteria for WNP-2 Safety Related Equipment Qualification", TDP 3.32.

19. WNP-2 Final Shielding Evaluation Report, September 1982.

20. Washington Public Power Supply System Calculation NE-02-82-39-0.

21. Washington Public Power Supply System Calculation NE-02-81-14-0.

9. PLANT LOCATION — The location of the component within the plant by building, elevation and coordinates.

10. Q.S. — Qualification Status (second column) indicates the environmental qualification of the equipment. The following list shows the meaning of the codes used.

A or X - Acceptable, thermal aging completed

B or Y - Acceptable, thermal aging being covered by surveillance

C - Acceptable, not installed

D - No documentation in files

G - Being requalified by modification of the hardware or the environment

J - Justification provided | 9/83

M - Being requalified by analysis

N - Not Acceptable

P - Purchasing qualified replacement

R - Documentation not complete

T - Being requalified by test

The first column shows the seismic qualification status.

11. HOURS — The time, in hours, a component is required to function following an accident. | 9/83

12. EQUIPMENT DESCRIPTION — A description of the equipment function.

13. DRAWING — The plant P&ID on which the component appears.

14. USE — Contains codes which describe equipment use during accident and/or normal plant shutdown conditions. The USE field is based on Item 2 Appendix E of NUREG 0588.

The "USE" input field is a two-digit field. The first digit shows the equipment operability requirement for accident mitigation and the second shows the equipment operability requirements for Hot or Cold shutdown conditions.

X X

0 — The equipment is not required before, during or after an accident.

Example: Equipment in this category provides no active function, but may provide a passive function by containing radioactive material outside the Reactor Building. It need not be qualified to demonstrate operability, even under non-accident service environments.

1 — Equipment that will experience the environmental conditions of design basis accidents for which it must function to mitigate said accidents, and that will be qualified to demonstrate operability in the accident environment for the time required for accident mitigation with safety margin to failure.

EPN / DESCRIPTION / CONTRACT / LEVEL	MFG / MODEL / EC / USE / SAFETY FUNCTION	BLDG ELEV / A/E DRAWING / A/E ZONE	STATUS: S E / DETAIL / QID / ZONE / TM / HL / ROOM	***SEISMIC (S) PARAMETERS*** TEST / ANL / FO / C / ACCURACY / FREQ	*ENV. (E) PARAMETERS* AGING / DBE / C / HOURS / COMPOSITE EPN
CAC-CNTR-1A CONTACTOR FOR CAC-EHC-1A 71 2	I005 A103D A 1 0 D	R 577 71-00-0104	A X M.8/7.0 E11	045002 R73 N 621 A	10 S 4320
CAC-CNTR-1B CONTACTOR FOR CAC-EHC-1B 71 2	I005 A103D A 1 0 D	R 577 71-00-0104	X X M.7/7.1 D11	045002 R73 Y 621	10 S 4320
CAC-EHC-1A 37 KW PREHEATER 71 2	C332 SA213-T347 S.S. A 1 0 D	R 580 M554	A X M.5/6.6 E14	109007 R73 N 621 R604	4320 CAC-HR-1A+
CAC-EHC-1B 37 KW PREHEATER 71 2	C332 SA213-T347 S.S. A 1 0 D	R 580 M554	X X M.5/7.4 E2	109007 R73 N 621 R604	4320 CAC-HR-1B+
CAC-EHO-FCV/1A EHO FOR CAC-FCV-1A 42A 2	I206 NH91J4002F2L18 A 1 0 D	R 575 M554	A X L.9/5.3 J10	110004 P R73 Y 121 03 R611	33+ 10143 10 S 4320 CAC-FCV-1A+
CAC-EHO-FCV/1B EHO FOR CAC-FCV-1B 42A 2	I206 NH91J4002F2L18 A 1 0 D	R 565 M554	A X J.6/6.7 H6	110004 P R61 Y 121 03 R509	33+ 10143 00 S 4320 CAC-FCV-1B+
CAC-EHO-FCV/2A EHO FOR CAC-FCV-2A 42A 2	I206 NH91J4002F2218 A 1 0 D	R 558 M554	A X M.2/7.1 G11	110004 P R63 Y 121 03 A504	33+ 10143 10 S 4320 CAC-FCV-2A+
CAC-EHO-FCV/2B EHO FOR CAC-FCV-2B 42A 2	I206 NH91J4002F211B A 1 0 D	R 560 M554	A X M.4/6.6 G6	110004 P C66 Y 121 03	33+ 10143 00 S 4320 CAC-FCV-2B+
CAC-EHO-FCV/3A EHO FOR CAC-FCV-3A 42A 2	I206 NH91J4002F2L18 A 1 0 D	R 494 M554	A X M.8/4.4 D11	110004 P R33 Y 121 03 R206	33+ 10143 10 S 4320 CAC-FCV-3A+
CAC-EHO-FCV/3B EHO FOR CAC-FCV-3B 42A 2	I206 NH91J4002F2L18 A 1 0 D	R 496 M554	A X J.2/7.4 C6	110004 P R31 Y 121 03	33+ 10143 00 S 4320 CAC-FCV-3B
CAC-EHO-FCV/4A EHO FOR CAC-FCV-4A 42A 2	I206 NH91J4002F2L18 A 1 0 D	R 493 M554	A X M.4/7.8 E11	110004 P R33 Y 121 03 R214	33+ 10143 10 S 4320 CAC-FCV-4A+
CAC-EHO-FCV/4B EHO FOR CAC-FCV-4B 42A 2	I206 NH91J4002F2L18 A 1 0 D	R 492 M554	A X N.2/6.0 E6	110004 P R33 Y 121 03 R206	33+ 10143 00 S 4320 CAC-FCV-4B+
CAC-EHO-FCV/5A EHO FOR CAC-FCV-5A 71 2	I206 NH91H4070F3L16 A 1 0 D	R 572 M554	A X H.6/6.5 F14	110004 P R73 N 121 03	33+ 10143 10 S 4320 CAC-FCV-5A+

EPN / DESCRIPTION / CONTRACT / LEVEL	EC	MFG / USE	SAFETY FUNCTION	MODEL / A/E	BLDG / DRAWING	ELEV	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM	HL ROOM	TEST ANL FO C / ACCURACY	FREQ	*ENV. AGING / COMPOSITE EPN	(E) PARAMETERS* DBE	C	HOURS
CAC-EHO-FCV/5B EHO FOR CAC-FCV-5B 71 2	A	I206 1 0 D	NH91H4070F3L16 M554		R 573	M.5/7.5	A X F2	110004 P R73	N	121	03	33+	10143 CAC-FCV-5B+	00	S	4320
CAC-EHO-FCV/6A EHO FOR CAC-FCV-6A 71 2	A	I206 1 0 D	NH91H4070F3L16 M554		R 572	M.6/6.5	A X G12	110001 P R73	N	121	03	33+	10143 CAC-FCV-6A+	10	S	4320
CAC-EHO-FCV/6B EHO FOR CAC-FCV-6B 71 2	A	I206 1 0 D	NH91H4070F3L16 M554		R 573	M.5/7.5	A X G4	110004 P R73	N	121	03	33+	10143 CAC-FCV-6B+	00	S	4320
CAC-EHO-TCV/4A EHO FOR CAC-TCV-4A 71 2	A	I206 1 0 D	NH92H9970F3L29 M554		R 573	M.5/6.6	A X D12	110001 P R73	N	121	03	33+	10143 CAC-TCV-4A+	10	S	4320
CAC-EHO-TCV/4B EHO FOR CAC-TCV-4B 71 2	A	I206 1 0 D	NH92H9970F3L29 M554		R 573	M.5/7.4	A X D4	110001 P R73	N	121	03	33+	10143 CAC-TCV-4B+	00	S	4320
CAC-EHO-V/1A 37 KW PREHEATER 71 2	A	I206 1 0 D	NH95H2670F3L2 M554		R 573	M.5/6.6	A X F15	110002 P R73	N R604	121	03	33+	10143 CAC-V-1A+	10	S	4320
CAC-EHO-V/1B EHO FOR CAC-V-1B 71 2	A	I206 1 0 D	NH95H2670F3L2 M554		R 573	M.5/7.4	A X F2	110002 P R63	N	121	03	33+	10143 CAC-V-1B+	00	S	4320
CAC-EHO-V/2A EHO FOR CAC-V-2A 71 2	A	I206 1 0 D	NH91H2070F3L2 M554		R 573	M.5/6.6	A X F12	110004 P R73	N	121	03	33+	10143 CAC-V-2A+	10	S	4320
CAC-EHO-V/2B EHO FOR CAC-V-2B 71 2	A	I206 1 0 D	NH91H2070F3L2 M554		R 573	M.5/7.4	A X F4	110004 P R63	N	121	03	33+	10143 CAC-V-2B+	00	S	4320
CAC-EHO-V/3A EHO FOR CAC-V-3A 71 2	A	I206 1 0 D	NH91H2070F3L2 M554		R 573	M.5/6.6	A X D12	110004 P R73	N R612	121	03	33+	10143 CAC-V-3A+	10	S	4320
CAC-EHO-V/3B EHO FOR CAC-V-3B 71 2	A	I206 1 0 D	NH91H2070F3L2 M554		R 573	M.5/7.4	A X D4	110004 P R63	N	121	03	33+	10143 CAC-V-3B	00	S	4320
CAC-FT-1A FT TO CAC-FIC-1A 220 3	P	R369 2 0 G	1153D83 M554		R 575	L.9/5.3	Y X J11	156009 R R63	N	114		50				4320
CAC-FT-1B FT TO CAC-FIC-1B 220 3	P	R369 2 0 G	1153D83 M554		R 551	H.7/8.1	Y X J5	156009 R R61	N	114		50				4320

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	MFG / SAFETY FUNCTION	MODEL / BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / TM / ZONE	SEISMIC (S) PARAMETERS HL / TEST / ROOM	ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING / DBE / C / HOURS / COMPOSITE EPN
CAC-FT-2A FT TO CAC-FIC-2A	3	P	R369 2 0 G	1153DB3	M554 R 551	Y X N.8/5.7 G11	156009 R R63	N 114		50	4320
CAC-FT-2B FT TO CAC-FIC-2B	3	P	R369 2 0 G	1153DB3	M554 R 551	Y X H.7/8.1 G5	156009 R R61	N 114		50	4320
CAC-FT-3A FT TO CAC-FIC-3A	3	P	R369 2 0 G	1153DB3	M554 R 504	Y X N.8/5.5 D11	156009 R R43	N 114		50	4320
CAC-FT-3B FT TO CAC-FIC-3B	3	P	R369 2 0 G	1153DB3	M554 R 504	Y X L4/9.3 D5	156009 R R43	N 114		50	4320
CAC-FT-4A FT TO CAC-FIC-4A	3	P	R369 2 0 G	1153DB3	M554 R 504	Y X N8/5.5 F11	156009 R R43	N 114		50	4320
CAC-FT-4B FT TO CAC-FIC-4B	3	P	R369 2 0 G	1153DB3	M554 R 504	Y X N.0/4.9 F5	156009 R R43	N 114		50	4320
CAC-FT-5A SCRUBBER 1A SW INLET FT	3	P	B080 2 0 G2	386	M554 R 473	X X M.3/6.8 G14	156004 R73	N 621 R604		01653 10 E CAC-HR-1A+	4320
CAC-FT-5B SCRUBBER 1B SW INLET FT	3	P	B080 2 0 G2	386	M554 R 578	X X M.3/7.5 G2	156004 R73	N 621 R604		06153 10 E CAC-HR-1B+	4320
CAC-FT-6A FT TO CAC-FC-67A	3	A	B080 1 0 D	386	M554 R 575	X X M.5/6.5 F12	156004 R73	N 621 R604		06153 10 E CAC-HR-1A+	4320
CAC-FT-6B FT TO CAC-FC-67B	3	A	B080 1 0 D	386	M554 R 575	X X M.5/7.3 F4	156004 R73	N 621 R604		06153 10 E CAC-HR-1B+	4320
CAC-FT-7A FT TO CAC-FIC-67A	3	A	B080 1 0 D	386	M554 R 575	X X M.3/6.6 F12	156004 R73	N 621 R604		06153 10 E CAC-HR-1A+	4320
CAC-FT-7B FT TO CAC-FIC-67B	3	A	B080 1 0 D	386	M554 R 576	X X M.3/7.4 F4	156004 R73	N 621 R604		06153 10 E CAC-HR-1B+	4320
CAC-LT-1A LT FOR HS-1A	2	A	B080 1 0 D	386	M554 R 574	X X M.3/6.8 D13	209002 R73	N 621 R604		06153 10 E CAC-HR-1A+	4320

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG	ELEV.	DRAWING	STATUS S	E	DETAIL / A/E ZONE	QID	TM ZONE	HL	TEST ROOM	ANL	FO	C	FREQ	ACCURACY	AGING	DBE	C	HOURS	COMPOSITE EPN
CAC-LT-1B LT FOR MS-1B					B080					X	X	209002		N	621										06153
71	2	A	1	0 D	386	A/E	R	574	M.3/7.5		D3		R73		R604										CAC-HR-1B+
CAC-M-FN/1A MTR FOR CAC-FN-1A					W120					X	X	213048		N	621										4320
71	2	A	1	0 D	75D42473	A/E	R	572	M.5/6.6		E13		R73		R604										CAC-HR-1A+
CAC-M-FN/1B MTR FOR CAC-FN-1B					W120					X	X	213048		N	621										4320
71	2	A	1	0 D	75D42473	A/E	R	572	M.5/7.4		F3		R73		R604										CAC-HR-1B+
CAC-MO-11 MOTOR OPERATOR CAC-V-11					L200					A	X	221001	P	Y	114				33+						4320
41A	2	A	1	0 D	SMB-000-5	A/E	R	560	M.2/6.5		G6		R63		R511										CAC-V-11+
CAC-MO-13 .361HP/3.8A MOTOR OPER. CAC-V-13					L200					A	X	221001		N	14	00			35						4320
41A	2	A	1	0 D	SMB-000-5	A/E	R	495	N.4/6.0		E6		R33		R206										CAC-V-13+
CAC-MO-15 .361HP/5.8A MO FOR CAC-V-15					L200					A	X	221001	P	Y	114				33+						4320
41A	2	A	1	0 D	SMB-000-5	A/E	R	570	J.8/6.8		H6		R61		R509										CAC-V-15+
CAC-MO-17 .361HP/3.8A MOTOR OPER. CAC-V-17					L200					A	X	221001	P	Y	114				33+						4320
41A	2	A	1	0 D	SMB-000-5	A/E	R	494	J.0/7.4		D6		R31		R211										CAC-V-17+
CAC-MO-2 MOTOR OPERATOR CAC-V-2					L200					A	X	221001	P	Y	114				33+						4320
41A	2	A	1	0 D	SMB-000-5	A/E	R	558	M.2/7.1		G10		R73		R604										CAC-V-2+
CAC-MO-4 .361HP/3.8A MOTOR OPER. CAC-V-4					L200					A	X	221001	P	N	114				33+						4320
41A	2	A	1	0 D	SMB-000-5	A/E	R	495	M.2/7.8		F10		R33		R206										CAC-V-4+
CAC-MO-6 MOTOR OPERATOR CAC-V-6					L200					A	X	221001	P	Y	114				33+						4320
41A	2	A	1	0 D	SMB-000-5	A/E	R	575	L.9/5.0		H10		R73		R611										CAC-V-6+
CAC-MO-8 MOTOR OPERATOR CAC-V-8					L200					A	X	221001	P	Y	114				33+						4320
41A	2	A	1	0 D	SMB-000-5	A/E	R	480	M.8/4.3		D10		R33		R206										CAC-V-8+
CAC-PT-1A 0-30 PSIG FOR CAC-FN-1A					B080					X	X	259006		N	621										06153
71	2	P	2	0 G2	386	A/E	R	572	M.5/6.6		F13		R73												CAC-HR-1A+
CAC-PT-1B 0-30 PSIG FOR CAC-FN-1B					B080					X	X	259006		N	621										06153
71	2	P	2	0 G2	386	A/E	R	575	M.5/7.4				R73												CAC-HR-1B+

EPN / DESCRIPTION	MFG	MODEL	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CAC-PT-68A PRESS TRANS ON CAC-MS-1A	B080	386	R 572 M.5/6.6 M554	X X D13	259006 R73			06153 10 E 4320 CAC-HR-1A*
CAC-PT-68B PRESS TRANS ON CAC-MS-1B	B080	386	R 572 M.5/7.4 M554	X X D03	259006 R73	N 621		06153 10 E 4320 CAC-HR-1B*
CAC-RLY-4A/CR1 OPEN INDICATION RELAY CAC-FCV-4A	A500	RXMK1	R 476 N.1/9.0 E519/13	X X G3	283011			06153 14 4320 E-JB-TB/R364*
CAC-RLY-4A/CR2 CLOSED INDICATION RELAY CAC-FCV-4A	A500	RXMK1	R 476 N.1/9.0 E519/13	X X G3	283011			06153 14 4320 E-JB-TB/R364*
CAC-RLY-4B/CR1 OPEN INDICATION RELAY CAC-FCV-4B	A500	RXMK1	R 476 N.0/8.3 E519/13	X X G3	283011			06153 05 4320 E-JB-TB/R363*
CAC-RLY-4B/CR2 CLOSED INDICATION RELAY CAC-FCV-4B	A500	RXMK1	R 476 N.0/8.3 E519/13	X X G3	283011			06153 05 4320 E-JB-TB/R363*
CAC-RLY-FCV1A80 POWER AVAIL RLY FOR CAC-FCV-1A	A500	RXMK1	R 475 N.1/9.3 H519/15	X X K1	283011 R R33	N 021 R206		06153 10 4320 E-JB-TB/R364*
CAC-RLY-FCV1B80 POWER AVAIL RLY FOR CAC-FCV-1B	A500	RXMK1	R 475 N.0/8.3 E519/15	X X K1	283011 R R33	N 021 R206		06153 00 4320 E-JB-TB/R363*
CAC-RLY-FCV2A80 POWER AVAIL RLY FOR CAC-FCV-2A	A500	RXMK1	R 475 N.1/9.3 E519/15	X X K4	283011 R R33	N 021 R206		06153 10 4320 E-JB-TB/R364*
CAC-RLY-FCV2B80 POWER AVAIL RLY FOR CAC-FCV-2B	A500	RXMK1	R 475 N.0/8.3 E519/15	X X K4	283011 R R43	N 021 R305		06153 00 4320 E-JB-TB/R363*
CAC-RLY-FCV3A80 POWER AVAIL RLY FOR CAC-FCV-3A	A500	RXMK1	R 475 N.1/9.3 E519/15	X X K4	283011 R R33	N 021 R206		06153 10 4320 E-JB-TB/R364*
CAC-RLY-FCV3B80 POWER AVAIL RLY FOR CAC-FCV-3B	A500	RXMK1	R 475 N.0/8.3 E519/15	X X K4	283011 R R33	N 021 R206		06153 00 4320 E-JB-TB/R363*
CAC-RLY-FCV4A80 POWER AVAIL RLY FOR CAC-FCV-4A	A500	RXMK1	R 475 N.1/9.3 E519/13	X X K3	283011 R R33	N 021 R206		06153 10 4320 E-JB-TB/R364*

CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION
71	2	A	1 0	D
71	2	A	1 0	D
218	3	A	1 0	I
218	3	A	1 0	I
218	3	A	1 0	I
213	3	A	1 0	I
218	3	P	2 0	G1
218	3	P	2 0	G1
218	3	P	2 0	G1
218	3	P	2 0	G1
218	3	P	2 0	G1
218	3	P	2 0	G1
218	3	P	2 0	G1

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL	BLDG ELEV A/E DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	TM HL ROOM	***SEISMIC (S) PARAMETERS*** TEST ANL FQ C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
CAC-RLY-FCV4B80 POWER AVAIL RLY FOR CAC-FCV-4B 218 3 P 2 0 G1	A500 RXMK1	R 475 E519/13	X X N.1/9.3 H3	283011 R33	R R206	N 021		06153 00 E-JB-TB/R363+	4320
CAC-TE-1A1 INPUT TO TEMP RECORDER 1A 71 2 P 2 0 G	T165 80500	R 580 M554	X X M.5/6.6 E13	339006 R73	N 621 R604			CAC-HR-1A+	4320
CAC-TE-1A2 TEMPERATURE ELEMENT ON CAC-EHC-1A 71 2 P 2 0 G	T165 80500	R 576 M554	X X M.3/6.4 E13	339006 R73	N 621			CAC-HR-1A+	4320
CAC-TE-1A3 TEMP ELEMENT ON CAC-EHC-1A 71 2 P 2 0 G	T165 80500	R 576 M554	X X M.3/6.4 D14	339006 R73	N 621			CAC-HR-1A+	4320
CAC-TE-1A4 TEMP ELEMENT ON CAC-EHC-1A 71 2 P 2 0 G	T165 80500	R 576 M554	X X M.3/6.4 D14	339006 R73	N 621			CAC-HR-1A+	4320
CAC-TE-1A5 TEMP ELEMENT ON CAC-EHC-1A 71 2 P 2 0 G	T165 80500	R 576 M554	X X M.3/6.4 D14	339006 R73	N 621			CAC-HR-1A+	4320
CAC-TE-1A6 TEMP ELEMENT ON CAC-EHC-1A 71 2 P 2 0 G	T165 80500	R 575 M554	X X M.3/6.4 D14	339006 R73	N 621			CAC-HR-1A+	4320
CAC-TE-1A7 TEMP ELEMET ON OUTLT OF CAC-EHC-1A 71 2 P 2 0 G	T165 80500	R 576 M554	X X M.3/6.4 D14	339006 R73	N 621			CAC-HR-1A+	4320
CAC-TE-1B1 INPUT TO TEMP RECORDER 1B 71 2 P 2 0 G	T165 80500	R 580 M554	X X M.5/7.4 E3	339006 R73	N 621 R604			CAC-HR-1B+	4320
CAC-TE-1B2 TEMP ELEMENT ON CAC-EHC-1B 71 2 P 2 0 G	T165 80500	R 576 M554	X X M.3/7.2 E3	339006 R73	N 621			CAC-HR-1B+	4320
CAC-TE-1B3 TEMP ELEMENT ON CAC-EHC-1B 71 2 P 2 0 G	T165 80500	R 576 M554	X X M.3/7.2 D2	339006 R73	N 621			CAC-HR-1B+	4320
CAC-TE-1B4 TEMP ELEMENT ON CAC-EHC-1B 71 2 P 2 0 G	T165 80500	P 576 M554	X X M.3/7.2 D2	339006 R73	N 621			CAC-HR-1B+	4320
CAC-TE-1B5 TEMP ELEMENT ON CAC-EHC-1B 71 2 P 2 0 G	T165 80500	P 576 M554	X X M.3/7.2	339006 R73	N 621			CAC-HR-1B+	4320

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / BLDG ELEV / A/E DRAWING	STATUS / S E / DETAIL / A/E ZONE	QID / TM / ZONE	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CAC-TE-1B6		T165		80500		X X	339006	N 621			4320
TEMP ELEMENT ON CAC-EHC-1B					R 575	M.3/7.2	R73			CAC-HR-1B+	
71	2	P	2	0 G	M554	D2					
CAC-TE-1B7		T165		80500		X X	339006	N 621			4320
TEMP ELEMENT ON CAC-EHC-1B					R 576	M.3/7.2	R73			CAC-HR-1B+	
71	2	P	2	0 G	M554	D2					
CAC-TE-2A		T165		80500		X X	339006	N 621			4320
PREHEATER 1A HI TEMP ALARM					R 581	M.5/6.6	R73	R604		CAC-HR-1A+	
71	2	A	1	0 D	M554	E13					
CAC-TE-2B		T165		80500		X X	339006	N 621			4320
PREHEATER 1B HI TEMP ALARM					R 581	M.5/7.4	R73	R604		CAC-HR-1B+	
71	2	A	1	0 D	M554	E2					
CAC-TE-3A		T165		80500		X X	339006	N 621			4320
PREHEATER 1A HI TEMP ALARM					R 576	M.5/6.6	R73	R604		CAC-HR-1A+	
71	2	A	1	0 D	M554	E14					
CAC-TE-3B		T165		80500		X X	339006	N 621			4320
PREHEATER 1B HI TEMP ALARM					R 576	M.5/7.4	R73	R604		CAC-HR-1B+	
71	2	A	1	0 D	M554	E2					
CAC-TE-4A		T165		80500		X X	339006	N 621			4320
TEMP ELEMENT DISCH FROM CAC-HS-1A					R 579	M.5/6.7	R73	R604		CAC-HR-1A+	
71	2	A	1	0 D	M554	E14					
CAC-TE-4B		T165		80500		X X	339006	N 621			4320
TEMP ELEMENT DISCH FROM CAC-HS-1B					R 579	M.5/7.5	R73	R604		CAC-HR-4B+	
71	2	A	1	0 D	M554	E4					
CAC-TE-5A		T165		80500		X X	339006	N 621			4320
PREHEATER 1A HI TEMP SHUTDOWN					R 576	M.5/6.6	R73	R604		CAC-HR-1A+	
71	2	A	1	0 D	M544	D13					
CAC-TE-5B		T165		80500		X X	339006	N 621			4320
PREHEATER 1B HI TEMP SHUTDOWN					R 576	M.5/7.4	R73	R604		CAC-HR-1B+	
71	2	A	1	0 D	M554	D2					
CAC-TE-6A		T165		80500		X X	339006	N 621			4320
MOISTURE SEPTR 1A HI TEMP SHUTDOWN					R 578	M.5/6.6	R73	R604		CAC-HR-1A+	
71	2	A	1	0 D	M554	E13					
CAC-TE-6B		T165		80500		X X	339006	N 621			4320
MOISTURE SEPTR 1B HI TEMP SHUTDOWN					R 578	M.5/7.4	R73	R604		CAC-HR-1B+	
71	2	A	1	0 D	M554	E13					
CAC-TE-7A		T165		80500		X X	339006			06153 14 E	4320
TEMP ELEMENT DISCH FROM CAC-FN-1A					P 580	M.5/6.6				CAC-HR-1A+	
71	2	A	1	0 D	M554	E13					

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG	MODEL	BLDG ELEV DRAWING A/E	STATUS S E QID TM HL TEST ANL FO C FREQ DETAIL A/E ZONE ZONE ROOM ACCURACY	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CAC-TE-7B TEMP ELEMENT DISCH FROM CAC-FN-1B 71 2 A 1 0 D	T165	80500	R 580 M.5/7.4 M554 E3	X X 339006	06153 04 E 4320 CAC-HR-1B*
CAS-V-453 1" SO GLOBE ROOT CTRL WW VAC BRKRS 215 2 A 1 0 B1	M095	MV250-4	R 479 M.3/7.5 M510 K8	R X 361009	01014 10 Z 4320 CAS-V-453*
CEP-POS-V/1A POS FOR CEP-V-1A 68 2 A 1 3 I	N007	EA74080100	R 563 J.1/5.4 M543 J13	A X 200015 R62	4320 CEP-V-1A*
CEP-POS-V/1B POS FOR CEP-V-1B 68 2 A 1 3 I	N007	EA170	R 563 J.4/5.3 M543 J13	A X 200009 R62	4320 CEP-V-1B*
CEP-POS-V/2A POS FOR CEP-V-2A 68 2 A 1 3 I	N007	EA74080100	R 558 J.1/5.4 M543 J13	A X 200015 R62	4320 CEP-V-2A*
CEP-POS-V/2B POS FOR CEP-V-2B 68 2 A 1 3 I	N007	EA170	R 559 J.4/5.3 M543 J13	A X 200009 R62	4320 CEP-V-2B*
CEP-POS-V/3A POS FOR CEP-V-3A 68 2 A 1 3 I	N007	EA740	R 491 H.4/5.4 M543 C14	A X 200015 R62	4320 CEP-V-3A*
CEP-POS-V/3B POS FOR CEP-V-3B 68 2 A 1 3 I	N007	EA170	R 495 H.5/5.4 M543 C14	A X 200009 R62	4320 CEP-V-3B*
CEP-POS-V/4A POS FOR CEP-V-4A 68 2 A 1 3 I	N007	EA740	R 491 H.5/5.6 M543 C14	A X 200015 R62	4320 CEP-V-4A*
CEP-POS-V/4B POS FOR CEP-V-4B 68 2 A 1 3 I	N007	EA170	R 495 H.5/5.4 M543 C14	A X 200009 R62	4320 CEP-V-4B*
CEP-SPV-1A SOLENOID PILOT FOR CEP-V-1A IR-67 58 2 A 1 3 B1,F	A499	WJH8316A74	R 552 H.8/5.8 M543 K12	X X 315004 R N 114 03 33* R63 R504	4320 E-IR-67*
CEP-SPV-1B SOLENOID PILOT FOR CEP-V-1B IR-67 58 2 A 1 3 B1,F	A499	WJHT831654	R 553 H.8/5.8 M543 J13	X X 315004 R N 114 03 33* R63 R504	4320 E-IR-67*
CEP-SPV-2A SOLENOID PILOT FOR CEP-V-2A IR-68 58 2 A 1 3 B1,F	A499	WJHT8316A76	R 554 H.7/5.1 M543	X X 315004 R N 114 03 33* R61 R504	4320 E-IR-68*

EPN / DESCRIPTION / CONTRACT / LEVEL / EC / USE / SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / A/E DRAWING / A/E ZONE	STATUS S E / DETAIL / ZONE	QID / TM / HL / ROOM	SEISMIC (S) PARAMETERS TEST / ANL / FO C / ACCURACY / FREQ	ENV. (E) PARAMETERS AGING / DBE / C / HOURS / COMPOSITE EPN
CEP-SPV-2B SOLENOID PILOT FOR CEP-V-2B IR-68 58 2 A 1 3 B1,F	A499 WJHT831654	R 554 H.7/8.1 M543	X X J13	315004 R N 114 R61 R504	03 33+ E-IR-68+	4320
CEP-SPV-3A SOLENOID PILOT FOR CEP-V-3A IR-62 58 2 A 1 3 B1,F	A499 WJHT831654	R 477 H.4/6.8 M543	X X C15	315004 R N 114 R31 R206	03 33+ E-IR-62+	4320
CEP-SPV-3B SOLENOID PILOT FOR CEP-V-3B IR-62 58 2 A 1 3 B1,F	A499 WJHT831654	R 478 H.4/6.8 M543	X X C14	315004 R N 114 R31 R206	03 33+ E-IR-62+	4320
CEP-SPV-4A SOLENOID PILOT FOR CEP-V-4A IR-63 58 2 A 1 3 B1,F	A499 WJHT8316A74	R 507 L.4/9.3 M543	X X C15	315004 R N 114 R43 R305	03 33+ E-IR-63+	4320
CEP-SPV-4B SOLENOID PILOT FOR CEP-V-4B IR-63 58 2 A 1 3 B1,F	A499 WJHT831654	R 507 L.4/9.3 M543	X X C14	315004 R N 114 R43 R305	03 33+ E-IR-63+	4320
CIA-MO-20 MOTOR OPERATOR CIA-V-20 215 2 A 1 3 B1	L200 SMB-000-5	R 542 J.3/7.0 M556	A X J6	221001 P N 114 R51	33+ CIA-V-20+	00 C 24
CIA-MO-30A 1HP MOTOR OPERATOR CIA-V-30A 215 2 A 1 3 B1	L200 SMB-000-5	R 541 J.5/4.3 M556	A X H6	221001 P N 114 R52 R404	33+ CIA-V-30A+	10 C 4320
CIA-MO-30B 1HP MOTOR OPERATOR CIA-V-30B 215 2 A 1 3 B1	L200 SMB-000-5	R 543 N.7/6.9 M556	A X F6	221001 P N 114 R52 R404	33+ CIA-V-30B+	10 C 4320
CIA-PROG-1A 16 STEP PROGR. TO N2 BOTTLES SPV'S 58 3 A 1 0 C,E	A611 1820B1020XX	R 554 M.8/5.7 M556	X J J7	254001 F N 21 R63 R504	00 33 06153 E-IR-67+	10 E 4320
CIA-PROG-1B 20 STEP PROGR.TO N2 BOTTLE SPV'S 58 3 A 1 0 C,E	A611 1820B1020XX	R 556 M.7/8.2 M556	X T F7	254001 F N 21 R61 R504	00 33 06153 E-IR-68+	10 E 4320
CIA-PS-21A DIV.1 CIA N2 HDR PRESSURE IR-67 58 2 A 1 3 C,E	B080 288	R 557 M.8/5.7 M556	A X J6	256007 R N 121 R63 R504	09 E-IR-67+	4320
CIA-PS-21B DIV.2 CIA N2 HDR PRESSURE IR-68 58 2 A 1 3 C,E	B080 288	R 554 M.7/8.1 M556	B X F6	256007 R N 121 R61 R504	09 E-IR-68+	4320
CIA-PS-22A REMOTE LOCAL PS 220 2 A 1 3 C,F	A499 SB11AKR	R 552 M.8/5.7 M556	X J H7	256001 R N 114 R63	50 E-IR-67+	4320

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG. / MODEL	BLDG / A/E DRAWING	ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / ROOM	HL	TEST	ANL	FO	C / ACCURACY	FREQ	*ENV; (E) PARAMETERS* AGING / COMPOSITE EPN	DBE	C	HOURS
CIA-PS-22B			A499	SB11AKR				X T	256001	R	N	114				50				4320
CIA NITROGEN HEADER PRESSURE IR-68						R	551	H.7/8.2	R61								E-IR-68+			
220	2	A	1 3	C,F	M556			67												
CIA-PT-21A			R369	1151GP7A22T0003PB				X X	259003	R	N	114				50				4320
CIA HEADER PRESS. IR-67						R	552	H.8/5.7	R63								E-IR-67+			
59	2	A	1 3	I	M556			J6												
CIA-PT-21B			R369	1151GP7A22T0003PB				X X	259003	R	N	114				50				4320
CIA HEADER PRESS. IR-68						R	550	H.7/8.2	R61								E-IR-68+			
59	2	A	1 3	I	M556			F6												
CIA-RLY-21A			S440	219X8XP				X J	283041								06153	10	Z	4320
CONTROL RELAY CLOSES ON LO PRESS						R	548	H.8/5.7									E-IR-67+			
218	3	A	1 0	E	E519/18			F6												
CIA-RLY-21B			S440	219X8XP				X R	283041								06153	10	Z	4320
CONTROL RELAY CLOSES ON LO PRESS						R	550	H.7/8.2									E-IR-68+			
218	3	A	1 0	C,E	E519/18			F6												
CIA-RLY-22A			A109	EGPI-002				X J	283052								06153	14		4320
RLY FOR CIA-PS-22A						R	552	H.8/5.7									E-IR-67+			
218	3	A	1 0	C,E	E519/1A															
CIA-RLY-22B			A109	EGPI-002				X D	283052								06153	04		4320
RLY FOR CIA-PS-22B						R	548	H.8/8.2									E-JB-TB/IR68/2+			
218	3	A	1 0	C,E	E519/1A															
CIA-SPV-10A			M095	MV252-3				X J	315023								01014	10	Z	4320
0.5" SOL PILOT ON N2 BOTTLE DISCH						R	440	N.1/4.3	R23	R105										
215	2	A	1 0	C	M556			G8												
CIA-SPV-10B			M095	MV252-3				X T	315023								01014	10	Z	4320
0.5" SOL PILOT ON N2 BOTTLE DISCH.						R	440	N.1/7.0	R23	R105										
215	2	A	1 0	C	M556			F8												
CIA-SPV-11A			M095	MV252-3				X J	315023								01014	10	Z	4320
0.5" SOL PILOT ON N2 BOTTLE DISCH						R	440	N.1/4.3	R23	R105										
215	2	A	1 0	C	M556			G8												
CIA-SPV-11B			M095	MV252-3				X T	315023								01014	10	Z	4320
0.5" SOL PILOT ON N2 BOTTLE DISCH						R	440	N.1/7.0	R23	R105										
215	2	A	1 0	C	M556			F8												
CIA-SPV-12A			M095	MV252-3				X J	315023								01014	10	Z	4320
0.5" SOL PILOT ON N2 BOTTLE DISCH						R	440	N.1/4.3	R23	R105										
215	2	A	1 0	C	M556			G8												
CIA-SPV-12B			M095	MV252-3				X T	315023								01014	10	Z	4320
0.5" SOL PILOT ON N2 BOTTLE DISCH						R	440	N.1/7.0	R23	R105										
215	2	A	1 0	C	M556															

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	MODEL / USE	SAFETY FUNCTION	BLDG ELEV / A/E DRAWING	STATUS / DETAIL / A/E ZONE	S E	QID / ZONE	TM / ROOM	HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS / COMPOSITE EPN
CIA-SPV-13A 0.5" SOL PILOT ON N2 BOTTLE DISCH		M095	MV252-3			X J		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/4.3 M556	G8			R23	R105					
CIA-SPV-13B 0.5" SOL PILOT ON N2 BOTTLE DISCH		M095	MV252-3			X T		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/7.0 M556	F8			R23	R105					
CIA-SPV-14A 0.5" SOL PILOT ON N2 BOTTLE DISCH		M095	MV252-3			X J		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/4.3 M556	G8			R23	R105					
CIA-SPV-14B .5" SOL PILOT VLV ON N2 BTTL DISCH		M095	MV252-3			X T		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/7.0 M556	F8			R23	R105					
CIA-SPV-15A .5" SOL PILOT VLL ON N2 BTTL DISCH		M095	MV252-3			X J		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/4.3 M556	G8			R23	R105					
CIA-SPV-15B .5" SOL PILOT VLV ON N2 BTTL DISCH		M195	MV252-3			X T		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/7.0 M556	F8			R23	R105					
CIA-SPV-16B .5" SOL PILOT VLV ON N2 BTTL DISCH		M095	MV252-3			X T		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/4.3 M556	F8			R23	R105					
CIA-SPV-17B .5" SOL PILOT VLV ON N2 BTTL DISCH		M095	MV252-3			X T		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/7.0 M556	F8			R23	R105					
CIA-SPV-18B 0.5" SOL PILOT ON N2 BOTTLE DISCH.		M095	MV252-3			X T		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/4.3 M556	F8			R23	R105					
CIA-SPV-19B .5" SOL PILOT VLV ON N2 BTTL DISCH		M095	MV252-3			X T		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/7.0 M556	F8			R23	R105					
CIA-SPV-1A 0.5" SOL PILOT ON N2 BOTTLE DISCH		M095	MV252-3			X J		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.0/4.3 M556	G8			R23	R105					
CIA-SPV-1B .5" SOL PILOT VLV ON N2 BTTL DISCH		M095	MV252-3			X T		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/7.0 M556	F8			R23	R105					
CIA-SPV-2A .5" SOL PILOT VLV ON N2 BTTL DISCH		M095	MV252-3			X J		315023				01014	10	Z	4320
215	2	A	1 0 C		R 440 N.1/4.3 M556	G8			R23	R105					

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / BLDG ELEV / A/E DRAWING	STATUS / S E / DETAIL / A/E ZONE	QID / TH / ZONE	***SEISMIC (S) PARAMETERS*** HL TEST / ROOM	ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / DBE C / COMPOSITE EPN	HOURS
CIA-SPV-2B		M095	MV252-3			X T	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/7.0	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	F8						
CIA-SPV-3A		M095	MV252-3			X J	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/4.3	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	G8						
CIA-SPV-3B		M095	MV252-3			X T	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/7.0	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	F8						
CIA-SPV-4A		M095	MV252-3			X J	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/4.3	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	G8						
CIA-SPV-4B		M095	MV252-3			X T	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/7.0	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	F8						
CIA-SPV-5A		M095	MV252-3			X J	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/4.3	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	G8						
CIA-SPV-5B		M095	MV252-3			X T	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/7.0	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	F8						
CIA-SPV-6A		M095	MV252-3			X J	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/4.3	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	G8						
CIA-SPV-6B		M095	MV252-3			X T	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/7.0	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	F8						
CIA-SPV-7A		M095	MV252-3			X J	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/4.3	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	G8						
CIA-SPV-7B		M095	MV252-3			X T	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/7.0	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	F8						
CIA-SPV-8A		M095	MV252-3			X J	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/4.3	R23	R105			10 Z	4320
215	2	A	1 0	C	M556	G8						
CIA-SPV-8B		M095	MV252-3			X T	315023				01014	
.5" SOL PILOT VLV ON N2 BTTL DISCH					R 440	N.1/7.0	R23	R105			10 Z	4320
215	2	A	1 0	C	M556							

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID	***SEISMIC (S) PARAMETERS*** TM / HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / DBE C / COMPOSITE EPN	HOURS
CIA-SPV-9A .5" SOL PILOT VLV ON N2 BTTL DISCH					M095		X J	315023			01014	10 Z 4320
215	2	A	1	0 C	M556	R 440 N.1/4.3	68	R23	R105			
CIA-SPV-9B .5" SOL PILOT VLV ON N2 BTTL DISCH					M095		X T	315023			01014	10 Z 4320
215	2	A	1	0 C	M556	R 440 N.1/7.0	F8	R23	R105			
CIA-TDS-1A 3 SEC DELAY FOR CIA-PROGR-1A					A109		X U	283013			05273 E-IR-67+	10 4320
	3	A	1	0 C,E	7022AE	R 554 M.8/5.8 E519/1B	D6					
CIA-TDS-1B 3 SEC DELAY FOR CIA-PROGR-1B					A109		X T	283013			05273 E-IR-68+	10 4320
	3	A	1	0 C,E	7022AE	R 554 M.7/8.2 E519/1B	D6					
CMS-AY-1 H2 ANALYZER					B135		R J	025002			06153 CMS-SR-13+	10 E 4320
92B	2	A	1	3 I	7C	R 548 M.6/4.5 M543	E6	R63				
CMS-AY-2 H2 ANALYZER					B135		R R	025002			06153 CMS-SR-14+	10 E 4320
92B	2	A	1	3 I	7C	R 548 M.6/4.9 M543	H14					
CMS-AY-3 CONTAINMENT OXYGEN ANALYZER					B135		J	025002				13 E 4320
92B	2	A	1	3 I	755	R 548 M.6/4.5 M543	E14				CMS-SR-13+	
CMS-AY-4 CONTAINMENT OXYGEN ANALYZER					B135		R	025002				04 E 4320
92B	2	A	1	3 I	755	R 548 M.6/4.9 M543	E6				CMS-SR-14+	
CMS-H-SR13/T5 CMS LOCA HEAT TRACE					T185		Z X	166003				15 E 4320
SS	2	A	1	0 I	SSK	R 548 M.1/4.5 E941						
CMS-H-SR13/T6 CMS LOCA HEAT TRACE					T185		Z X	166003				15 E 4320
SS	2	A	1	0 I	SSK	R 548 M.1/4.5 E941						
CMS-H-SR13/T7 CMS LOCA HEAT TRACE					T185		Z X	166003				15 E 4320
SS	2	A	1	0 I	SSK	R 548 M.1/4.5 E941						
CMS-H-SR13/T8 CMS LOCA HEAT TRACE					T185		Z X	166003				15 E 4320
SS	2	A	1	0 I	SSK	R 548 M.1/4.5 E941						
CMS-H-SR14/T5 CMS LOCA HEAT TRACE					T185		Z X	166003				05 E 4320
SS	2	A	1	0 I	SSK	R 548 M.1/4.9 E941						

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV / DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TH / HL / TEST / ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / DBE / C / HOURS / COMPOSITE EPN
CMS-H-SR14/T6			T185	SSK			Z X	166003			05 E 4320
CMS LOCA HEAT TRACE						R 548 M.1/4.9					
SS	2	A	1 0 I		E941						
CMS-H-SR14/T7			T185	SSK			Z X	166003			05 E 4320
CMS LOCA HEAT TRACE						R 548 M.1/4.9					
SS	2	A	1 0 I		E941						
CMS-H-SR14/T8			T185	SSK			Z X	166003			05 E 4320
CMS LOCA HEAT TRACE						R 548 M.1/4.9					
SS	2	A	1 0 I		E941						
CMS-LE-3A			E210	MODEL 616			J				02294 15 E 4320
SUPPRESSION POOL LEVEL ELEMENT						C 435 45 DEG AZ		C17			
218	2	A	1 0 I		M543		B10				
CMS-LE-3B			E210	MODEL 616			J				02294 15 E 4320
SUPPRESSION POOL LEVEL ELEMENT						C 500 60 DEG AZ		C37			
218	2	A	1 0 I		M543		B10				
CMS-LE-4A			E210	MODEL 616			T				02294 05 E 4320
SUPPRESSION POOL LEVEL ELEMENT						C 435 270 DEG AZ		C17			
218	2	A	1 0 I		M543		B10				
CMS-LE-4B			E210	MODEL 616			T				02294 05 E 4320
SUPPRESSION POOL LEVEL ELEMENT						C 500 240 DEG AZ		C37			
218	2	A	1 0 I		M543		B10				
CMS-LE-5A			E210	MODEL 616			T				02294 05 E 4320
SUPPRESSION POOL LEVEL ELEMENT						C 435 135 DEG AZ		C17			
218	2	A	1 0 I		M543		B10				
CMS-LE-5B			E210	MODEL 616			T				02294 05 E 4320
SUPPRESSION POOL LEVEL ELEMENT						C 500 60 DEG AZ		C37			
218	2	A	1 0 I		M543		B10				
CMS-LS-1			F132	8-66			Z X	207024			06153 11 E 4320
LEVEL SWITCH CONT WATER LEVEL						C 503					
218	2	A	1 0 I		M543		D7				
CMS-LS-2			F132	8-66			Z X	207024			06153 11 E 4320
LEVEL SWITCH CONT WATER LEVEL						C 518					
218	2	A	1 0 I		M543		E8				
CMS-LS-3			F132	8-66			Z X	207024			06153 12 E 4320
LEVEL SWITCH CONT WATER LEVEL						C 551					
218	2	A	1 0 I		M543		H10				
CMS-LS-4			F132	8-66			Z X	207024			06153 12 E 4320
LEVEL SWITCH CONT WATER LEVEL						C 570					
218	2	A	1 0 I		M543						

EPN / CONTRACT / LEVEL	MFG / DESCRIPTION / EC USE SAFETY FUNCTION	MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST / ROOM	ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS / COMPOSITE EPN
CMS-LT-1	R369	1151DP4D22T0003AB	R 465 J.5/4.3	X X	209007 R32	N	14 R206	00	50				4320
SUPPRESS CHAMB WTR LEVEL MONITOR				B14									
59 2	A 1 3 I	M543											
CMS-LT-2	R369	1151DP4D22T0003AB	R 464 M.2/7.7	X X	209007 R33	N	14 R214	00	50				4320
SUPPRES CHAMBER WTR LEVEL MONIT IR				B6									
59 2	A 1 3 I	M543											
CMS-LT-2R	R369	1153-DB4	R 464 M.2/7.7	X X	156001 C36					05253	03	E	4320
SUPPRESSION POOL WATER LEVEL				B6									
59 2	P 2 0 G	M543											
CMS-ME-1	P047	600-09A	R 536 190 D AZ	X X	217002 C45					04153	10	E	4320
ME FOR DRYWELL				E13									
220 2	P 2 3 G	M543											
CMS-ME-2	P047	600-09A	R 536 195 D AZ	X X	217002 C46					04153	10	E	4320
ME FOR DRYWELL				F7									
220 2	P 2 0 G	M543											
CMS-ME-3	P047	600-09A	R 536 195 D AZ	X X	217002 C44					04153	10	E	4320
ME FOR DRYWELL				E7									
220 2	P 2 3 G	M543											
CMS-ME-4	P047	600-09A	R 536 190 D AZ	X X	217002 C54					04153	10	E	4320
ME FOR DRYWELL				E13									
220 2	P 2 0 G	M543											
CMS-ME-5	P047	600-09A	R 536 45 D AZ	X X	217002 C56					04153	10	E	4320
ME FOR DRYWELL				E7									
220 2	P 2 3 G	M543											
CMS-PT-1	R369	1153AB5	R 555 M.8/5.8	Y X	156009 R63	R	N 114		50	E-IR-67+			4320
CONTAINMENT PRESS. MONITORING IR-6				F13									
220 2	A 1 3 I	M543											
CMS-PT-2	R369	1153GD6	R 551 M.7/8.1	Y X	156009 R61	R	N 114		50	E-IR-68+			4320
CONTAINMENT PRESS MONITORING IR-68				C7									
220 2	A 1 3 I	M543											
CMS-PT-2R	R369	1151GP4E22PB	R 550 M.7/8.2	X X	259003 R61	R	N 114		50	E-IR-68+			4320
PRIMARY CONT. PRESS.				G7									
59 2	P 2 0 G	M543											
CMS-PT-3	R369	1151GP7E22PB	R 501 N.8/5.3	X X	259003 R43	R	N 114 R305		50	E-IR-66+			4320
SUPPRES.CHAMB.PRESS.MONITOR IR-66				C15									
59 2	A 1 0 I	M543											
CMS-PT-4	R369	1151GP7E22PB	R 501 L.4/9.3	X X	259003 R41	R	N 114 R305		50	E-IR-63+			4320
SUPPRES.CHAMB.PRESS.MONITOR IR-63				F6									
59 2	A 1 0 I	M543											

EPN / CONTRACT / LEVEL	DESCRIPTION / EC / USE / SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CMS-PT-5	CONTAINMENT PRESS.MONITORING IR-67	R369 1151GP7E22PB	R 555 M.8/5.8	X X	259003	R N 114		50	E-IR-67+	4320
59 2	A 1 3 I	M543		G13		R63 R504				
CMS-PT-6	CONTAINMENT PRESS.MONITORING IR-68	R369 1151GP7E22PB	R 551 M.7/8.1	X X	259003	R N 114		50	E-IR-68+	4320
59 2	A 1 3 I	M543		H7		R61 R504				
CMS-PT-6R	CONTAINMENT PRESS.HIGH RANGE	R369 1151GP7E22PB	R 550 N.7/8.2	X X	259003	R N 114		50	E-IR-68+	4320
59 2	P 2 0 G	M543		H7		R61				
CMS-PT-7	-5TO+3PS/GPTFORDIVICONT.PRESSMON.	R369 1153-GB7	R 552 M.8/5.8	X X	156001	R63			05253 E-IR-67+	11 E 4320
220 2	A 1 3 I	M543		G13						
CMS-PT-8	=5TO+3PS/G FOR DIVII CONTPRESS.MCN	R369 1153-AB5	R 550 M.7/8.2	X X	156001	R61			05253 E-IR-68+	11 E 4320
220 2	A 1 3 I	M543		J7						
CMS-RE-27E	DIVI CMS RAD ELEMENTS (1-105 R/HR)	V115 875	C 516 300 DEG AZ	X X	277007	W42			06153	13 E 4320
218 2	A 1 3 I	M543		H12						
CMS-RE-27F	DIVII CMS RAD ELEMENT(1-10SR/HR)	V115 875	C 516 45 DEG AZ	X X	277007	W42			06153	03 E 4320
218 2	A 1 3 I	M543		G8						
CMS-RMS-HTP71	CS FOR CMS LOCA HT TRACE	G080 CR2940YB203D	R 548 M.1/4.4	Y J	285017				06153 E-JB-HTP/7B/E+	13 E 20
SS 3	P 2 0 G1									
CMS-RMS-HTP80	CS FOR MCS LOCA HT TRACE	G080 CR2940YB203D	R 548 M.1/4.7	Y R	285012				06153 E-JB-HTP/8B/A+	03 E 4320
SS 3	P 2 0 G1									
CMS-SR-13+	SAMPLE RACK 13 FOR H202	B135 771172	R 548 M.3/4.5	X	025002				06303 CMS-SR-13+	05 E
92A 1	P 2 0 H	M569		G4						
CMS-SR-14+	SAMPLE RACK 14 FOR H202	B135 771172	R 569 M.3/4.7	X	025002				06303 CMS-SR-14+	05 E
92A 1	P 2 0 H	M569		G4						
CMS-TE-1	AIR INLET RECIRC PUMP MOTOR A	P329 TC2370CCA250TT68JXH7	C 517 115 DEG AZ	X J	339003	C47			06153	11 E 4320
218 2	A 1 3 I	M543		E13						
CMS-TE-10	CRA-F[illegible]A DISCHARGE TEMP	W108 101-1-A-3-C-8-2-1	C 512 72[illegible] AZ	X P	339025	C45			06153	11 E 4320
216 2	A 1 3 I	M543								

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV A/E	DRAWING	STATUS S E QID TM	DETAIL A/E ZONE	ZONE	ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FQ C	ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS COMPOSITE EPN
CMS-TE-11			W108	101-1-A-3-C-8-2-1				X P 339025							06153	11	E	4320
CRA-FN-1B DISCHARGE AIR TEMP						C	520 193	DEG AZ	C46									
216	2	A	1 3 I		M543				D11									
CMS-TE-12			W108	101-1-A-3-C-8-2-1				X P 339025							06153	11	E	4320
CRA-FN-1C DISCHARGE TEMP						C	520 260	DEG AZ	C46									
216	2	A	1 3 I		M543				D8									
CMS-TE-13			W108	101-1-A-3-C-8-2-1				X P 339025							06153	11	E	4320
CRA-FN-2A DISCHARGE AIR TEMP						C	549 355	DEG AZ	C54									
216	2	A	1 3 I		M543				J11									
CMS-TE-14			W108	101-1-A-3-C-8-2-1				X P 339025							06153	11	E	4320
CRA-FN-2B DISCHARGE AIR TEMP						C	544 220	DEG AZ	C56									
216	2	A	1 3 I		M543				J9									
CMS-TE-2			H329	TC2370CCA250TT68JXH7				X J 339003							05103	11	E	4320
CONT TEMP MONITOR						C	517 150	DEG AZ	C47									
218	2	A	1 3 I		M543				E11									
CMS-TE-24			H329	TC2370CCA250TT68JXH7				X R 339003							06153	04	E	4320
CONTAINMENT HEAD MONITOR						C	596 330	DEG AZ	C74									
218	2	A	1 3 I		M543				K8									
CMS-TE-25			H329	TC2370CCA250TT68JXH7				X R 339003							06153	04	E	4320
CONTAINMENT HEAD MONITOR						C	596 210	DEG AZ	R76									
218	2	A	1 3 I		M543				K9									
CMS-TE-26			H329	TC2370CCA250TT68JXH7				X J 339003							06153	14	E	4320
CONTAINMENT HEAD MONITOR						C	596 90	DEG AZ	R77									
218	2	A	1 3 I		M543				K11									
CMS-TE-27			H329	TC2370CCA250TT68JXH7				X J 339003							06153	14	E	4320
CRA-FC-5B DISCHARGE TEMPERATURE						C	553 210	DEG AZ	C66									
218	2	A	1 3 I		M543				J12									
CMS-TE-28			H329	TC2370CCA250TT68JXH7				X R 339003							06153	14	E	4320
CRA-FN-5C AREA TEMPERATURE						C	560 144	DEG AZ	C67									
218	2	A	1 3 I		M543				J8									
CMS-TE-29			H329	TC2370CCA250TT68JXH7				X J 339003							06153	14	E	4320
CRA-FC-2A AREA TEMPERATURE						C	560 72	DEG AZ	C65									
218	2	A	1 3 I		M543				G11									
CMS-TE-3			H329	TC2370CCA250TT68JXH7				X R 339003							06153	14	E	4320
AIR INLET RECIRC PUMP MOTOR						C	517 300	DEG AZ	C44									
218	2	A	1 3 I		M543				E8									
CMS-TE-30			H329	TC2370CCA250TT68JXH7				X J 339003							06153	14	E	4320
AIR TEMPERATURE AT ELEV 547						C	560 0	DEG AZ	C65									
218	2	A	1 3 I		M543				G12									

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV / DRAWING	STATUS S E DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. AGING	(E) PARAMETERS* DBE C / COMPOSITE EPN	HOURS
CMS-TE-31			H329	TC2370CCA250TT68JXH7	CRA-FC-2B AREA TEMPERATURE	C 560	X R 339003 288 DEG AZ	C64			06153	14 E	4320
218	2	A	1 3 I			M543	G9						
CMS-TE-4			H329	TC2370CCA250TT68JXH7	AIR INLET RECIRC PUMP MOTOR	C 550	X R 339003 280 DEG AZ	C44			06153	14 E	4320
218	2	A	1 3 I			M543	E7						
CMS-TE-5			W108	101-1-A-3-C-8-2-1	CRA-FC-1A AIR INLET TEMP	C 504	X P 339025 72 DEG AZ	C45			06153	11 E	4320
216	2	A	1 3 I			M543	C13						
CMS-TE-6			W108	101-1-A-3-C-8-2-1	CRA-FC-1C AIR INLET TEMP	C 504	X P 339025 190 DEG AZ	C46			06153	11 E	4320
216	2	A	1 3 I			M543	C12						
CMS-TE-7			W108	101-1-A-3-C-8-2-1	CRA-FC-1C AIR INLET TEMP	C 504	A P 339025 275 DEG AZ	C44			06153	11 E	4320
216	2	A	1 3 I			M543	D8						
CMS-TE-8			W108	101-1-A-3-C-8-2-1	CRA-FC-2A AIR INLET TEMPERATURE	C 560	X P 339025 355 DEG AZ	C64			06153	11 E	4320
218	2	A	1 3 I			M543	H12						
CMS-TE-9			W108	101-1-A-3-C-8-2-1	CRA-FN-2B AIR INLET TEMP	C 547	X P 339025 222 DEG AZ	C56			06153	11 E	4320
216	2	A	1 3 I			M543	H8						
CMS-TS-4A			A499	SC11AR/QT11A4R	SAMPLE RACK 13 HEAT TRACE TEMP SW	R 548	J 355020 M.7/4.3				06153	12 E	4320
218	2	A	1 0 I			M543							
CMS-TS-4B			A499	SC11AR/QT11A4R	SAMPLE RACK 13 HEAT TRACE TEMP SW	R 548	J 355020 M.7/4.3				06153	12 E	4320
218	2	A	1 0 I			M543							
CMS-TS-4C			A499	SC11AR/QT11A4R	SAMPLE RACK 13 HEAT TRACE TEMP SW	R 548	J 355020 M.7/4.3				06153	12 E	4320
218	2	A	1 0 I			M543							
CMS-TS-4D			A499	SC11AR/QT11A4R	SAMPLE RACK 13 HEAT TRACE TEMP SW	R 548	J 355020 M.7/4.3				06153	12 E	4320
218	2	A	1 0 I			M543							
CMS-TS-5A			A499	SC11AR/QT11A4R	SAMPLE RACK 13 HEAT TRACE TEMP SW1	R 548	J 355020 M.7/4.5				06153	12 E	4320
218	2	A	1 0 I			M543							
CMS-TS-5B			A499	SC11AR/QT11A4R	SAMPLE RACK 13 HEAT TRACE TEMP SW	R 548	J 355020 M.7/4.5				06153	12 E	4320
218	2	A	1 0 I			M543							

EPN / DESCRIPTION / CONTRACT / LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CMS-TS-5C SAMPLE RACK 13 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/4.5	J	355020			06153 12 E 4320
CMS-TS-5D SAMPLE RACK 13 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/4.5	J	355020			06153 12 E 4320
CMS-TS-8A SAMPLE RACK 14 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/5.0	P	355020			06153 02 E 4320
CMS-TS-8B SAMPLE RACK 14 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/5.0	P	355020			06153 02 E 4320
CMS-TS-8C SAMPLE RACK 14 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/5.0	P	355020			06153 02 E 4320
CMS-TS-8D SAMPLE RACK 14 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/5.0	P	355020			06153 02 E 4320
CMS-TS-9A SAMPLE RACK 14 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/5.0	X P	355020			06153 02 E 4320
CMS-TS-9B SAMPLE RACK 14 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/5.0	X P	355020			06153 02 E 4320
CMS-TS-9C SAMPLE RACK 14 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/5.0	X P	355020			06153 02 E 4320
CMS-TS-9D SAMPLE RACK 14 HEAT TRACE 218 2	A	1 0 I	SC11AR/QT11A4R	A499 TEMP SW M543	R 548 M.7/5.0	X P	355020			06153 02 E 4320
CRA-M-FN/3A 10HP/17.1A MTR DRIVER CRA-FN-3A 2 2	A	1 3 D	324TCZ	R165 M543	C 536 45 D AZ R17 F12	X X	213037 B55	Y		03313 10 E 4320 CRA-FN-3A+
CRA-M-FN/3B 10HP/17.1A MTR DRIVER CRA-FN-3B 2 2	A	1 3 D	324TCZ	R165 M543	C 536 175 D AZ R17 F9	X X	213037 C57	Y		03313 00 E 4320 CRA-FN-3B+
CRA-M-FN/3C 10HP/17.1A MTR DRIVER CRA-FN-3C 2 2	A	1 3 D	324TCZ	R165 M543	C 536 315 D AZ R17 F8	X X	213037 R54	Y		03313 00 E 4320 CRA-FN-3C+

EPN / DESCRIPTION / CONTRACT / LEVEL / EC / USE	MFG / MODEL / SAFETY FUNCTION	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / ROOM	HL TEST / ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE	C	HOURS
CRA-M-FN/4A 10HP/17.1A MTR DRIVER CRA-FN-4A 2 2 A 1 3 D	R165 254TCZ	C 572 330 D AZ R17 C74 M543	Y X J10	213038	Y			03313 CRA-FN-4A*	10	E	4320
CRA-M-FN/4B 10HP/17.1A MTR DRIVER CRA-FN-4B 2 2 A 1 3 D	R165 254TCZ	C 572 206 D AZ R17 C74 M543	Y X J9	213038	Y			03313 CRA-FN-4B*	00	E	4320
CRA-M-FN/5A 10HP/17.1A MTR DRIVER CRA-FN-5A 2 2 A 1 3 D	R165 324TCZ	C 564 160 D AZ R17 C74 M543	X X J8	213050	Y 14	00	60	03313 CRA-FN-5A*	10	E	4320
CRA-M-FN/5B 10HP/17.1A MTR DRIVER CRA-FN-5B 2 2 A 1 3 D	R165 324TCZ	C 564 20 D AZ R17 C74 M543	X X J11	213050	Y 14	00	60	03313 CRA-FN-5B*	00	E	4320
CRA-M-FN/5C 10HP/17.1A MTR DRIVER CRA-FN-5C 2 2 A 1 3 D	R165 324TCZ	C 564 270 D AZ R17 C74 M543	X X H8	213050	Y 14	00	60	05253 CRA-FN-5C*	01	E	4320
CRA-M-FN/5D 10HP/17.1A MTR DRIVER CRA-FN-5D 2 2 A 1 3 D	R165 324TCZ	C 564 90 D AZ R17 C74 M543	X X H11	213050	Y 14	00	60	03313 CRA-FN-5D*	00	E	4320
CRD-IR-3* CRD INSTR RACK 215 1 P 2 3 H	B341 X10175EM401	R 522 M.8/3.8 M528	X X D14	315024				CRD-IR-3*	00		
CRD-LS-13E CRD LEVEL SWITCH 02C12 2 P 2 3 G	M040 5.0-751-2X-MPG-M14HY	R 528 J.2/4.9 M528	X X H7	207004 W R52	N 14 R408	00	00				4320
CRD-LS-13F CRD LEVEL SWITCH 02C12 2 P 2 3 G	M040 5.0-751-2X-MPG-M14HY	R 522 J.0/4.9 M528	X X H7	207004 W R52	N 14 R408	00	00				4320
CRD-LS-13G SCRAM DISCHARGE INSTR VOL-A LEVEL 02 2 P 2 3 G	M040 751	R 522 J.0/7.0 M528	X X H11	207004				06153	02	E	4320
CRD-LS-13H SCRAM DISCHARGE INSTR VOL-A LEVEL 02 2 P 2 3 G	M040 751	R 522 J.0/7.0 M528	X X H11	207004				06153	02	E	4320
CRD-POS-1260219 POSITION SWITCH 02C12 3 A 1 0 A	M302 BZE6-2RN72	R 528 L5/8.4 M528	Y X C4	248003	N 612			CRD-HCU-0219*			.17
CRD-POS-1260223 POSITION SWITCH 02C12 3 A 1 0 A	M302 BZE6-2RN72	R 528 L5/8 M528	Y X	248003	N 612			CRD-HCU-0223*			.17

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG	MODEL	A/E DRAWING	BLDG	ELEV	DETAIL	A/E ZONE	STATUS S	STATUS E	QID ZONE	TM	HL	ROOM	AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-POS-1260227 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0227+
CRD-POS-1260231 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0231+
CRD-POS-1260235 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0235+
CRD-POS-1260239 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0239+
CRD-POS-1260243 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0243+
CRD-POS-1260615 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y	X	248003		N	612	06153	00	E	.17	CRD-HCU-0615+
CRD-POS-1260619 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0619+
CRD-POS-1260623 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0623+
CRD-POS-1260627 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0627+
CRD-POS-1260631 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0631+
CRD-POS-1260635 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0635+
CRD-POS-1260639 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0639+
CRD-POS-1260643 POSITION SWITCH 02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y	X	248003		N	612				.17	CRD-HCU-0643+

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL A/E	BLDG	ELEV / DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TM	HL / ROOM	TEST	ANL	FO	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-POS-1260647			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 K2/8.4															CRD-HCU-0647*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261011			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 L5/8.4															CRD-HCU-1011*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261015			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 L5/8.4															CRD-HCU-1015*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261019			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 L5/8.4															CRD-HCU-1019*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261023			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 L5/8.4															CRD-HCU-1023*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261027			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 L5/8.4															CRD-HCU-1027*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261031			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 L5/8.4															CRD-HCU-1031*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261035			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 K2/8.4															CRD-HCU-1035*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261039			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 K2/8.4															CRD-HCU-1039*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261043			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 K2/8.4															CRD-HCU-1043*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261047			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 K2/8.4															CRD-HCU-1047*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261051			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 K2/8.4															CRD-HCU-1051*
02C12	3	A 1 0 A			M528		C4															
CRD-POS-1261407			M302	BZE6-2RN72				Y	X	248003		N	612									.17
POSITION SWITCH						R	528 L5/8.4															CRD-HCU-1407*
02C12	3	A 1 0 A			M528		C4															

EPN / CONTRACT	LEVEL	DESCRIPTION EC	USE	MFG SAFETY FUNCTION	MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	TM ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING OBE C HOURS COMPOSITE EPN
CRD-POS-1261411 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 L5/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1411+
CRD-POS-1261415 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 L5/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1415+
CRD-POS-1261419 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 L5/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1419+
CRD-POS-1261423 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 L5/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1423+
CRD-POS-1261427 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 L5/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1427+
CRD-POS-1261431 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 L5/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1431+
CRD-POS-1261435 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 K2/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1435+
CRD-POS-1261439 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 K2/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1439+
CRD-POS-1261443 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 K2/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1443+
CRD-POS-1261447 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 K2/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1447+
CRD-POS-1261451 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 526 K2/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1451+
CRD-POS-1261455 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 K2/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1455+
CRD-POS-1261803 POSITION SWITCH 02C12	3	A	1 0 A M302	BZE6-2RN72	M528	R 528 L5/8.4	Y X C4	248003	N 612			.17 CRD-HCU-1803+

EPN CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG MODEL A/E	BLDG DRAWING	ELEV A/E	STATUS S E DETAIL ZONE	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL ROOM	TEST ANL ACCURACY	FO C FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
CRD-POS-1261807 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	L5/8.4 C4	Y X	248003	N 612			CRD-HCU-1807*	.17
CRD-POS-1261811 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	L5/8.4 C4	Y X	248003	N 612			CRD-HCU-1811*	.17
CRD-POS-1261815 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	L5/8.4 C4	Y X	248003	N 612			CRD-HCU-1815*	.17
CRD-POS-1261819 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	L5/8.4 C4	Y X	248003	N 612			CRD-HCU-1819*	.17
CRD-POS-1261823 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	L5/8.4 C4	Y X	248003	N 612			CRD-HCU-1823*	.17
CRD-POS-1261827 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	L5/8.4 C4	Y X	248003	N 612			CRD-HCU-1827*	.17
CRD-POS-1261831 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	L5/8.4 C4	Y X	248003	N 612			CRD-HCU-1831*	.17
CRD-POS-1261835 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	K2/8.4 C4	Y X	248003	N 612			CRD-HCU-1835*	.17
CRD-POS-1261839 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	K2/8.4 C4	Y X	248003	N 612			CRD-HCU-1839*	.17
CRD-POS-1261843 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	K2/8.4 C4	Y X	248003				CRD-HCU-1843*	.17
CRD-POS-1261847 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	K2/8.4 C4	Y X	248003	N 612			CRD-HCU-1847*	.17
CRD-POS-1261851 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	K2/8.4 C4	Y X	248003	N 612			CRD-HCU-1851*	.17
CRD-POS-1261855 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72 M302 M528	R	528	K2/8.4 C4	Y X	248003	N 612			CRD-HCU-1855*	.17

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL A/E	BLDG	ELEV	DRAWING	STATUS S	E	DETAIL A/E	ZONE	QID	TM ZONE	HL ROOM	TEST	ANL	FO	C. ACCURACY	FREQ	AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-POS-1261859 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	K2/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-1859+
CRD-POS-1262203 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2203+
CRD-POS-1262207 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2207+
CRD-POS-1262211 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2211+
CRD-POS-1262215 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2215+
CRD-POS-1262219 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2219+
CRD-POS-1262223 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2223+
CRD-POS-1262227 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2227+
CRD-POS-1262231 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2231+
CRD-POS-1262235 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	K2/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2235+
CRD-POS-1262239 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	K2/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2239+
CRD-POS-1262243 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	K2/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2243+
CRD-POS-1262247 POSITION SWITCH 02C12	3	A	1	BZE6-2RN72	M302 M528	R	528	K2/8.4 C4	Y	X			248003		N	612								.17	CRD-HCU-2247+

EPN CONTRACT	LEVEL	DESCRIPTION EC	USE	MFG SAFETY FUNCTION	MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ROOM	ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
CRD-POS-1262251 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-2251+	.17
CRD-POS-1262255 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-2255+	.17
CRD-POS-1262259 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-2259+	.17
CRD-POS-1262603 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-2603+	.17
CRD-POS-1262607 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-2607+	.17
CRD-POS-1262611 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-2611+	.17
CRD-POS-1262615 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-2615+	.17
CRD-POS-1262619 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-2619+	.17
CRD-POS-1262623 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-2623+	.17
CRD-POS-1262627 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-2627+	.17
CRD-POS-1262631 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-2631+	.17
CRD-POS-1262635 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-2635+	.17
CRD-POS-1262639 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-2639+	.17

EPN CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	TM HL TEST ANL FO C ROOM ACCURACY	FREQ	***SEISMIC (S) PARAMETERS*** AGING DBE C HOURS COMPOSITE EPN	*ENV. (E) PARAMETERS*
CRD-POS-1262643 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612		CRD-HCU-2643+	.17
CRD-POS-1262647 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612		CRD-HCU-2647+	.17
CRD-POS-1262651 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612		CRD-HCU-2651+	.17
CRD-POS-1262655 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612		CRD-HCU-2655+	.17
CRD-POS-1262659 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612		CRD-HCU-2659+	.17
CRD-POS-1263003 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612		CRD-HCU-3003+	.17
CRD-POS-1263007 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612		CRD-HCU-3007+	.17
CRD-POS-1263011 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612		CRD-HCU-3011+	.17
CRD-POS-1263015 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612		CRD-HCU-3015+	.17
CRD-POS-1263019 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612		CRD-HCU-3019+	.17
CRD-POS-1263023 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612		CRD-HCU-3023+	.17
CRD-POS-1263027 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612		CRD-HCU-3027+	.17
CRD-POS-1263031 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K.2/3.7 C4	Y X	248003	N 612		CRD-HCU-3031+	.17

EPN / CONTRACT	LEVEL	DESCRIPTION FC	USE	SAFETY FUNCTION	MFG / MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN	
CRD-POS-1263035 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X C4	248003	N 612		CRD-HCU-3035*	.17
CRD-POS-1263039 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K2/8.4	Y X C4	248003	N 612		CRD-HCU-3039*	.17
CRD-POS-1263043 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X C4	248003	N 612		CRD-HCU-3043*	.17
CRD-POS-1263047 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X C4	248003	N 612		CRD-HCU-3047*	.17
CRD-POS-1263051 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X C4	248003	N 612		CRD-HCU-3051*	.17
CRD-POS-1263055 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X C4	248003	N 612		CRD-HCU-3055*	.17
CRD-POS-1263059 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X C4	248003	N 612		CRD-HCU-3059*	.17
CRD-POS-1263403 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X C4	248003	N 612		CRD-HCU-3403*	.17
CRD-POS-1263407 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X C4	248003	N 612		CRD-HCU-3407*	.17
CRD-POS-1263411 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X C4	248003	N 612		CRD-HCU-3411*	.17
CRD-POS-1263415 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X C4	248003	N 612		CRD-HCU-3415*	.17
CRD-POS-1263419 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X C4	248003	N 612		CRD-HCU-3419*	.17
CRD-POS-1263423 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X C4	248003	N 612		CRD-HCU-3423*	.17

EPN CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG DESCRIPTION MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ROOM	ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CRD-POS-1263427 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X L.5/3.7 C4	248003	N 612			.17 CRD-HCU-3427+
CRD-POS-1263431 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X K.2/3.7 C4	248003	N 612			.17 CRD-HCU-3431+
CRD-POS-1263435 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X K.2/3.7 C4	248003	N 612			.17 CRD-HCU-3435+
CRD-POS-1263439 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X K.2/3.7 C4	248003	N 612			.17 CRD-HCU-3439+
CRD-POS-1263443 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X K.2/3.7 C4	248003	N 612			.17 CRD-HCU-3443+
CRD-POS-1263447 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X K.2/3.7 C4	248003	N 612			.17 CRD-HCU-3447+
CRD-POS-1263451 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X K.2/3.7 C4	248003	N 612			.17 CRD-HCU-3451+
CRD-POS-1263455 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X K.2/3.7 C4	248003	N 612			.17 CRD-HCU-3455+
CRD-POS-1263459 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X K.2/3.7 C4	248003	N 612			.17 CRD-HCU-3459+
CRD-POS-1263803 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X L.5/3.7 C4	248003	N 612			.17 CRD-HCU-3803+
CRD-POS-1263807 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X L.5/3.7 C4	248003	N 612			.17 CRD-HCU-3807+
CRD-POS-1263811 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X L.5/3.7 C4	248003	N 612			.17 CRD-HCU-3811+
CRD-POS-1263815 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528	Y X L.5/3.7 C4	248003	N 612			.17 CRD-HCU-3815+

EPN / CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	A/E ZONE	STATUS S E DETAIL	QID	TM ZONE	HL ROOM	TEST ANL ACCURACY	FO C	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-POS-1263819			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	L.5/3.7												CRD-HCU-3819*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263823			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	L.5/3.7												CRD-HCU-3823*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263827			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	L.5/3.7												CRD-HCU-3827*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263831			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	K.2/3.7												CRD-HCU-3831*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263835			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	K.2/3.7												CRD-HCU-3835*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263839			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	K.2/3.7												CRD-HCU-3839*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263843			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	K.2/3.7												CRD-HCU-3843*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263847			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	K.2/3.7												CRD-HCU-3847*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263851			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	K.2/3.7												CRD-HCU-3851*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263855			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	K.2/3.7												CRD-HCU-3855*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1263859			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	K.2/3.7												CRD-HCU-3859*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1264203			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	L.5/3.7												CRD-HCU-4203*
02C12	3	A	1 0	A	M528		C4												
CRD-POS-1264207			M302	BZE6-2RN72				Y X	248003		N 612							.17	
POSITION SWITCH						R 528	L.5/3.7												CRD-HCU-4207*
02C12	3	A	1 0	A	M528		C4												

EPN / CONTRACT	LEVEL	EC	MFG / USE	SAFETY FUNCTION	MODEL A/E	BLDG	ELEV	STATUS S E DETAIL A/E	QID ZONE	TM	HL	TEST ROOM	ANL	FO	C	FREQ ACCURACY	AGING	DBE	C	HOURS COMPOSITE EPN
CRD-POS-1264211 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y X 248003	N		612								.17 CRD-HCU-4211+
CRD-POS-1264215 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y X 248003	N		612								.17 CRD-HCU-4215+
CRD-POS-1264219 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y X 248003	N		612								.17 CRD-HCU-4219+
CRD-POS-1264223 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y X 248003	N		612								.17 CRD-HCU-4223+
CRD-POS-1264227 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y X 248003	N		612								.17 CRD-HCU-4227+
CRD-POS-1264231 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y X 248003	N		612								.17 CRD-HCU-4231+
CRD-POS-1264235 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y X 248003	N		612								.17 CRD-HCU-4235+
CRD-POS-1264239 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y X 248003			612								.17 CRD-HCU-4239+
CRD-POS-1264243 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y X 248003			612								.17 CRD-HCU-4243+
CRD-POS-1264247 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y X 248003			612								.17 CRD-HCU-4247+
CRD-POS-1264251 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y X 248003			612								.17 CRD-HCU-4251+
CRD-POS-1264255 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y X 248003			612								.17 CRD-HCU-4255+
CRD-POS-1264259 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y X 248003			612								.17 CRD-HCU-4259+

EPN CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG MODEL	BLDG ELEV DRAWING	STATUS S E DETAIL	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C FREQ ROOM ACCURACY	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CRD-POS-1264607 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L.5/3.7	Y X C4	248003	612	.17 CRD-HCU-4607+
CRD-POS-1264611 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L.5/3.7	Y X C4	248003	612	.17 CRD-HCU-4611+
CRD-POS-1264615 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L.5/3.7	Y X C4	248003	612	.17 CRD-HCU-4615+
CRD-POS-1264619 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L.5/3.7	Y X C4	248003	612	.17 CRD-HCU-4619+
CRD-POS-1264623 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L.5/3.7	Y X C4	248003	612	.17 CRD-HCU-4623+
CRD-POS-1264627 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L.5/3.7	Y X C4	248003	612	.17 CRD-HCU-4627+
CRD-POS-1264631 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K.2/3.7	Y X C4	248003	612	.17 CRD-HCU-4631+
CRD-POS-1264635 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K.2/3.7	Y X C4	248003	612	.17 CRD-HCU-4635+
CRD-POS-1264639 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K.2/3.7	Y X C4	248003	612	.17 CRD-HCU-4639+
CRD-POS-1264643 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K.2/3.7	Y X C4	248003	612	.17 CRD-HCU-4643+
CRD-POS-1264647 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K.2/3.7	Y X C4	248003	612	.17 CRD-HCU-4647+
CRD-POS-1264651 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K.2/3.7	Y X C4	248003	612	.17 CRD-HCU-4651+
CRD-POS-1264655 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K.2/3.7	Y X C4	248003	612	.17 CRD-HCU-4655+

CPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-POS-1265011			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 L.5/3.7					CRD-HCU-5011+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265015			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 L.5/3.7					CRD-HCU-5015+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265019			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 L.5/3.7					CRD-HCU-5019+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265023			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 L.5/3.7					CRD-HCU-5023+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265027			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 L.5/3.7					CRD-HCU-5027+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265031			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 K.2/3.7					CRD-HCU-5031+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265035			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 K.2/3.7					CRD-HCU-5035+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265039			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 K.2/3.7					CRD-HCU-5039+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265043			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 K.2/3.7					CRD-HCU-5043+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265047			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 K.2/3.7					CRD-HCU-5047+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265051			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 K.2/3.7					CRD-HCU-5051+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265415			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 L.5/3.7					CRD-HCU-5415+
02C12	3	A	1 0 A		M528		C4				
CRD-POS-1265419			M302	BZE6-2RN72			Y X	248003	612		.17
POSITION SWITCH						R 528 L.5/3.7					CRD-HCU-5419+
02C12	3	A	1 0 A		M528		C4				

EPN CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG MODEL A/E	BLDG DRAWING	ELEV	STATUS S E DETAIL A/E	QID ZONE	TH ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
CRD-POS-1265423 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 L.5/3.7 C4	Y X	248003	612			CRD-HCU-5423*	.17
CRD-POS-1265427 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 L.5/3.7 C4	Y X	248003	612			CRD-HCU-5427*	.17
CRD-POS-1265431 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 K.2/3.7 C4	Y X	248003	612			CRD-HCU-5431*	.17
CRD-POS-1265435 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 K.2/3.7 C4	Y X	248003	612			CRD-HCU-5435*	.17
CRD-POS-1265439 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 K.2/3.7 C4	Y X	248003	612			CRD-HCU-5439*	.17
CRD-POS-1265443 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 K.2/3.7 C4	Y X	248003	612			CRD-HCU-5443*	.17
CRD-POS-1265447 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 K.2/3.7 C4	A X	248003	612			CRD-HCU-5447*	.17
CRD-POS-1265819 POSITION SWITCH 02C12	3	A	1 0 A	BZF6-2RN72	M528	R	528 L.5/3.7 C4	A X	248003	612			CRD-HCU-5819*	.17
CRD-POS-1265823 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 L.5/3.7 C4	A X	248003	612			CRD-HCU-5823*	.17
CRD-POS-1265827 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 L.5/3.7 C4	A X	248003	612			CRD-HCU-5827*	.17
CRD-POS-1265831 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 K.2/3.7 C4	A X	248003	612			CRD-HCU-5831*	.17
CRD-POS-1265835 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 K.2/3.7 C4	A X	248003	612			CRD-HCU-5835*	.17
CRD-POS-1265839 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M528	R	528 K.2/3.7 C4	A X	248003	612			CRD-HCU-5839*	.17

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG	ELEV	DRAWING	STATUS S	E	DETAIL	QID	ZONE	TM	HL	TEST	ROOM	ANL	FO	C	ACCURACY	FREQ	ENV. (E) PARAMETERS AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-POS-1265843			M302	BZE6-2RN72					A	X		248003					612									.17	
POSITION SWITCH						R	528	K.2/3.7																			CRD-HCU-5843+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270219			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	L5/8.4																			CRD-HCU-0219+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270223			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	L5/8.4																			CRD-HCU-0223+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270227			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	L5/8.4																			CRD-HCU-0227+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270231			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	L5/8.4																			CRD-HCU-0231+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270235			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	K2/8.4																			CRD-HCU-0235+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270239			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	K2/8.4																			CRD-HCU-0239+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270243			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	K2/8.4																			CRD-HCU-0243+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270615			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	L5/8.4																			CRD-HCU-0615+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270619			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	L5/8.4																			CRD-HCU-0619+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270623			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	L5/8.4																			CRD-HCU-0623+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270627			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	L5/8.4																			CRD-HCU-0627+
02C12	3	A	1 0	A	M528						C4																
CRD-POS-1270631			M302	BZE6-2RN72					Y	X		248003			N		612									.17	
POSITION SWITCH						R	528	L5/8.4																			CRD-HCU-0631+
02C12	3	A	1 0	A	M528						C4																

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	MFG / SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV / DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TH	HL	TEST	ANL	FO	C	FREQ	ACCURACY	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-POS-1270635 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 K2/8.4 C4	A/E ZONE	Y	X	248003		N	612									.17	CRD-HCU-0635*
CRD-POS-1270639 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 K2/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-0639*
CRD-POS-1270643 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 K2/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-0643*
CRD-POS-1270647 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 K2/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-0647*
CRD-POS-1271011 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 L5/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-1011*
CRD-POS-1271015 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 L5/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-1015*
CRD-POS-1271019 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 L5/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-1019*
CRD-POS-1271023 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 L5/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-1023*
CRD-POS-1271027 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 L5/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-1027*
CRD-POS-1271031 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 L5/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-1031*
CRD-POS-1271035 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 K2/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-1035*
CRD-POS-1271039 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 K2/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-1039*
CRD-POS-1271043 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R	528 K2/8.4 C4		Y	X	248003		N	612									.17	CRD-HCU-1043*

EPN CONTRACT	LEVEL	EC	DESCRIPTION USE	MFG SAFETY FUNCTION	MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ROOM	ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CRD-POS-1271047 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1047*
CRD-POS-1271051 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1051*
CRD-POS-1271407 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1407*
CRD-POS-1271411 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1411*
CRD-POS-1271415 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1415*
CRD-POS-1271419 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1419*
CRD-POS-1271423 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1423*
CRD-POS-1271427 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1427*
CRD-POS-1271431 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1431*
CRD-POS-1271435 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1435*
CRD-POS-1271439 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1439*
CRD-POS-1271443 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1443*
CRD-POS-1271447 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-1447*

EPN / CONTRACT	LEVEL	DESCRIPTION EC	USE	MFG / SAFETY FUNCTION	MODEL / A/E	BLDG / DRAWING	ELEV / A/E ZONE	STATUS S	E	QID / ZONE	TH	SEISMIC (S) PARAMETERS HL / ROOM	TEST	ANL	Fo	C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING	DBE	C / COMPOSITE EPN	HOURS
CRD-POS-1271451 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 K2/8.4 C4	Y	X	248003		N	612					CRD-HCU-1451+			.17
CRD-POS-1271455 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 K2/8.4 C4	Y	X	248003		N	612					CRD-HCU-1455+			.17
CRD-POS-1271803 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 L5/8.4 C4	Y	X	248003		N	612					CRD-HCU-1803+			.17
CRD-POS-1271807 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 L5/8.4 C4	Y	X	248003		N	612					CRD-HCU-1807+			.17
CRD-POS-1271811 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 L5/8.4 C4	Y	X	248003		N	612					CRD-HCU-1811+			.17
CRD-POS-1271815 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 L5/8.4 C4	Y	X	248003		N	612					CRD-HCU-1815+			.17
CRD-POS-1271819 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 L5/8.4 C4	Y	X	248003		N	612					CRD-HCU-1819+			.17
CRD-POS-1271823 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 L5/8.4 C4	Y	X	248003		N	612					CRD-HCU-1823+			.17
CRD-POS-1271827 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 L5/8.4 C4	Y	X	248003		N	612					CRD-HCU-1827+			.17
CRD-POS-1271831 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 L5/8.4 C4	Y	X	248003		N	612					CRD-HCU-1831+			.17
CRD-POS-1271835 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 K2/8.4 C4	Y	X	248003		N	612					CRD-HCU-1835+			.17
CRD-POS-1271839 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 K2/8.4 C4	Y	X	248003		N	612					CRD-HCU-1839+			.17
CRD-POS-1271843 POSITION SWITCH 02C12	3	A	1 0	P302 BZE6-2RN72 A	M528	R	528 K2/8.4	Y	X	248003		N	612					CRD-HCU-1843+			.17

EPN / CONTRACT	LEVEL	EC	MFG / DESCRIPTION / USE	SAFETY FUNCTION	MODEL / A/E	BLDG DRAWING	ELEV	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM	HL TEST ANL FO C / ROOM / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING DBE C HOURS / COMPOSITE EPN
CRD-POS-1271847			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	K2/8.4					CRD-HCU-1847+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1271851			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	K2/8.4					CRD-HCU-1851+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1271855			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	K2/8.4					CRD-HCU-1855+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1271859			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	K2/8.4					CRD-HCU-1859+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1272203			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	L5/8.4					CRD-HCU-2203+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1272207			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	L5/8.4					CRD-HCU-2207+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1272211			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	L5/8.4					CRD-HCU-2211+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1272215			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	L5/8.4					CRD-HCU-2215+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1272219			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	L5/8.4					CRD-HCU-2219+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1272223			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	L5/8.4					CRD-HCU-2223+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1272227			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	L5/8.4					CRD-HCU-2227+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1272231			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	L5/8.4					CRD-HCU-2231+
02C12	3	A	1 0 A		M528			C4					
CRD-POS-1272235			M302	BZE6-2RN72				Y X	248003		N 612		.17
POSITION SWITCH						R	528	K2/8.4					CRD-HCU-2235+
02C12	3	A	1 0 A		M528			C4					

EPN / CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG / MODEL A/E	BLDG DRAWING	ELEV	STATUS DETAIL A/E ZONE	S	E	QID ZONE	TM ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FQ C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING COMPOSITE EPN	DBE	C	HOURS
CRD-POS-1272239 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	K2/8.4 C4	Y	X	248003	N	612		CRD-HCU-2239+			.17
CRD-POS-1272243 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	K2/8.4 C4	Y	X	248003	N	612		CRD-HCU-2243+			.17
CRD-POS-1272247 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	K2/8.4 C4	Y	X	248003	N	612		CRD-HCU-2247+			.17
CRD-POS-1272251 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	K2/8.4 C4	Y	X	248003	N	612		CRD-HCU-2251+			.17
CRD-POS-1272255 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	K2/8.4 C4	Y	X	248003	N	612		CRD-HCU-2255+			.17
CRD-POS-1272259 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	K2/8.4 C4	Y	X	248003	N	612		CRD-HCU-2259+			.17
CRD-POS-1272603 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	L5/8.4 C4	Y	X	248003	N	612		CRD-HCU-2603+			.17
CRD-POS-1272607 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	L5/8.4 C4	Y	X	248003	N	612		CRD-HCU-2607+			.17
CRD-POS-1272611 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	L5/8.4 C4	Y	X	248003	N	612		CRD-HCU-2611+			.17
CRD-POS-1272615 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	L5/8.4 C4	Y	X	248003	N	612		CRD-HCU-2615+			.17
CRD-POS-1272619 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	L5/8.4 C4	Y	X	248003	N	612		CRD-HCU-2619+			.17
CRD-POS-1272623 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	L5/8.4 C4	Y	X	248003	N	612		CRD-HCU-2623+			.17
CRD-POS-1272627 POSITION SWITCH 02C12	3	A	1 0	BZE6-2RN72 A	M302 M528	R	528	L5/8.4 C4	Y	X	248003	N	612		CRD-HCU-2627+			.17

EPN / DESCRIPTION	CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG	MODEL	A/E	BLDG	ELEV	DRAWING / DETAIL	A/E ZONE	STATUS S E	QID	***SEISMIC (S) PARAMETERS*** TM HL	ROOM	*ENV. (E) PARAMETERS* COMPOSITE EPN	HOURS
CRD-POS-1272631 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y X	248003	N	612	CRD-HCU-2631*	.17
CRD-POS-1272635 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y X	248003	N	612	CRD-HCU-2635*	.17
CRD-POS-1272639 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y X	248003	N	612	CRD-HCU-2639*	.17
CRD-POS-1272643 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y X	248003	N	612	CRD-HCU-2643*	.17
CRD-POS-1272647 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y X	248003	N	612	CRD-HCU-2647*	.17
CRD-POS-1272651 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y X	248003	N	612	CRD-HCU-2651*	.17
CRD-POS-1272655 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y X	248003	N	612	CRD-HCU-2655*	.17
CRD-POS-1272659 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	K2/8.4	C4	Y X	248003	N	612	CRD-HCU-2659*	.17
CRD-POS-1273003 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y X	248003	N	612	CRD-HCU-3003*	.17
CRD-POS-1273007 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y X	248003	N	612	CRD-HCU-3007*	.17
CRD-POS-1273011 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y X	248003	N	612	CRD-HCU-3011*	.17
CRD-POS-1273015 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y X	248003	N	612	CRD-HCU-3015*	.17
CRD-POS-1273019 POSITION SWITCH	02C12	3	A	1 0	A	M302	BZE6-2RN72	M528	R	528	L5/8.4	C4	Y X	248003	N	612	CRD-HCU-3019*	.17

EPN CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG MODEL A/E	BLDG DRAWING	ELEV	STATUS S E DETAIL A/E ZONE	QID ZONE	TH ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
CRD-POS-1273023 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y X 248003	N 612			CRD-HCU-3023*	.17
CRD-POS-1273027 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	L5/8.4 C4	Y X 248003	N 612			CRD-HCU-3027*	.17
CRD-POS-1273031 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	K.2/3.7 C4	Y X 248003	N 612			CRD-HCU-3031*	.17
CRD-POS-1273035 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	K.2/3.7 C4	Y X 248003	N 612			CRD-HCU-3035*	.17
CRD-POS-1273039 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	K.2/3.7 C4	Y X 248003	N 612			CRD-HCU-3039*	.17
CRD-POS-1273043 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	K.2/3.7 C4	Y X 248003	N 612			CRD-HCU-3043*	.17
CRD-POS-1273047 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	K.2/3.7 C4	Y X 248003	N 612			CRD-HCU-3047*	.17
CRD-POS-1273051 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	K.2/3.7 C4	Y X 248003	N 612			CRD-HCU-3051*	.17
CRD-POS-1273055 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	K.2/3.7 C4	Y X 248003	N 612			CRD-HCU-3055*	.17
CRD-POS-1273059 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	K.2/3.7 C4	Y X 248003	N 612			CRD-HCU-3059*	.17
CRD-POS-1273403 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	L.5/3.7 C4	Y X 248003	N 612			CRD-HCU-3403*	.17
CRD-POS-1273407 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	L.5/3.7 C4	Y X 248003	N 612			CRD-HCU-3407*	.17
CRD-POS-1273411 POSITION SWITCH 02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R	528	L.5/3.7	Y X 248003	N 612			CRD-HCU-3411*	.17

EPN CONTRACT	LEVEL	EC	DESCRIPTION USE	MFG SAFETY FUNCTION	MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	TM HL ROOM	TEST ANL FO C ACCURACY	FREQ	***SEISMIC (S) PARAMETERS*** AGING	*ENV. (E) PARAMETERS* DBE C COMPOSITE EPN	HOURS
CRD-POS-1273415			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	L.5/3.7						CRD-HCU-3415*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273419			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	L.5/3.7						CRD-HCU-3419*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273423			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	L.5/3.7						CRD-HCU-3423*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273427			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	L.5/3.7						CRD-HCU-3427*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273431			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	K.2/3.7						CRD-HCU-3431*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273435			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	K.2/3.7						CRD-HCU-3435*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273439			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	K.2/3.7						CRD-HCU-3439*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273443			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	K.2/3.7						CRD-HCU-3443*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273447			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	K.2/3.7						CRD-HCU-3447*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273451			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	K.2/3.7						CRD-HCU-3451*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273455			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	K.2/3.7						CRD-HCU-3455*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273459			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	K.2/3.7						CRD-HCU-3459*	
02C12	3	A	1 0 A		M528		C4							
CRD-POS-1273803			M302	BZE6-2RN72			Y X	248003	N 612					.17
POSITION SWITCH						R 528	L.5/3.7						CRD-HCU-3803*	
02C12	3	A	1 0 A		M528		C4							

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E	BLDG ELEV / DRAWING / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TH / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-POS-1273807 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L.5/3.7 C4	Y X	248003	N 612			.17 CRD-HCU-3807*
CRD-POS-1273811 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L.5/3.7 C4	Y X	248003	N 612			.17 CRD-HCU-3811*
CRD-POS-1273815 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L.5/3.7 C4	Y X	248003	N 612			.17 CRD-HCU-3815*
CRD-POS-1273819 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L.5/3.7 C4	Y X	248003	N 612			.17 CRD-HCU-3819*
CRD-POS-1273823 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L.5/3.7 C4	Y X	248003	N 612			.17 CRD-HCU-3823*
CRD-POS-1273827 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 L.5/3.7 C4	Y X	248003	N 612			.17 CRD-HCU-3827*
CRD-POS-1273831 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K.2/3.7 C4	Y X	248003	N 612			.17 CRD-HCU-3831*
CRD-POS-1273835 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K.2/3.7 C4	Y X	248003	N 612			.17 CRD-HCU-3835*
CRD-POS-1273839 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K.2/3.7 C4	Y X	248003	N 612			.17 CRD-HCU-3839*
CRD-POS-1273843 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-3843*
CRD-POS-1273847 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-3847*
CRD-POS-1273851 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			.17 CRD-HCU-3851*
CRD-POS-1273855 POSITION SWITCH 02C12	3	A	M302 1 0 A	BZE6-2RN72	M528	R 528 K2/8.4	Y X	248003	N 612			.17 CRD-HCU-3855*

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL A/E	BLDG	ELEV	DRAWING	STATUS S	E	DETAIL	QID / ZONE	TM	HL	TEST	ANL	FO	C	FREQ ACCURACY	AGING	OBE	C	HOURS COMPOSITE EPN
CRD-POS-1273859 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	K2/8.4 C4															CRD-HCU-3859+
CRD-POS-1274203 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	L5/8.4 C4															CRD-HCU-4203+
CRD-POS-1274207 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	L5/8.4 C4															CRD-HCU-4207+
CRD-POS-1274211 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	L5/8.4 C4															CRD-HCU-4211+
CRD-POS-1274215 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	L5/8.4 C4															CRD-HCU-4215+
CRD-POS-1274219 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	L5/8.4 C4															CRD-HCU-4219+
CRD-POS-1274223 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	L5/8.4 C4															CRD-HCU-4223+
CRD-POS-1274227 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	L5/8.4 C4															CRD-HCU-4227+
CRD-POS-1274231 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	K2/8.4 C4															CRD-HCU-4231+
CRD-POS-1274235 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	K2/8.4 C4															CRD-HCU-4235+
CRD-POS-1274239 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	K2/8.4 C4															CRD-HCU-4239+
CRD-POS-1274243 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	K2/8.4 C4															CRD-HCU-4243+
CRD-POS-1274247 POSITION SWITCH			M302	BZE6-2RN72					Y	X		248003		N	612								.17
02C12	3	A	1 0	A	M528	R	528	K2/8.4 C4															CRD-HCU-4247+

*** SEISMIC (S) PARAMETERS *** * ENV. (E) PARAMETERS *

EPN CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	TH ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN	
CRD-POS-1274251 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-4251+	.17
CRD-POS-1274255 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-4255+	.17
CRD-POS-1274259 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-4259+	.17
CRD-POS-1274607 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-4607+	.17
CRD-POS-1274611 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-4611+	.17
CRD-POS-1274615 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-4615+	.17
CRD-POS-1274619 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-4619+	.17
CRD-POS-1274623 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-4623+	.17
CRD-POS-1274627 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 L5/8.4 C4	Y X	248003	N 612			CRD-HCU-4627+	.17
CRD-POS-1274631 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-4631+	.17
CRD-POS-1274635 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-4635+	.17
CRD-POS-1274639 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K2/8.4 C4	Y X	248003	N 612			CRD-HCU-4639+	.17
CRD-POS-1274643 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R 528 K.2/3.7 C4	Y X	248003	N 612			CRD-HCU-4643+	.17

EPN CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG MODEL A/E	BLDG	ELEV	DRAWING	STATUS S	E	DETAIL A/E ZONE	QID ZONE	SEISMIC (S) PARAMETERS TM	HL	TEST ROOM	ANL	FQ	C	FREQ ACCURACY	ENV. (E) PARAMETERS AGING	DBE	C	HOURS COMPOSITE EPN
CRD-POS-1274647 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y	X		248003		N	612					CRD-HCU-4647+			.17
CRD-POS-1274651 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y	X		248003		N	612					CRD-HCU-4651+			.17
CRD-POS-1274655 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y	X		248003		N	612					CRD-HCU-4655+			.17
CRD-POS-1275011 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y	X		248003		N	612					CRD-HCU-5011+			.17
CRD-POS-1275015 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y	X		248003		N	612					CRD-HCU-5015+			.17
CRD-POS-1275019 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y	X		248003		N	612					CRD-HCU-5019+			.17
CRD-POS-1275023 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y	X		248003		N	612					CRD-HCU-5023+			.17
CRD-POS-1275027 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	L.5/3.7 C4	Y	X		248003		N	612					CRD-HCU-5027+			.17
CRD-POS-1275031 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y	X		248003		N	612					CRD-HCU-5031+			.17
CRD-POS-1275035 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y	X		248003		N	612					CRD-HCU-5035+			.17
CRD-POS-1275039 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y	X		248003		N	612					CRD-HCU-5039+			.17
CRD-POS-1275043 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y	X		248003		N	612					CRD-HCU-5043+			.17
CRD-POS-1275047 POSITION SWITCH 02C12	3	A	1 0 A	M302 BZE6-2RN72	M528	R	528	K.2/3.7 C4	Y	X		248003		N	612					CRD-HCU-5047+			.17

EPN / DESCRIPTION	CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	OID / ZONE	TH	HL TEST ANL FQ C / ROOM / ACCURACY	FREQ	*SEISMIC (S) PARAMETERS* A/E ZONE	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-POS-1275051 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5051+
CRD-POS-1275415 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5415+
CRD-POS-1275419 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5419+
CRD-POS-1275423 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5423+
CRD-POS-1275427 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5427+
CRD-POS-1275431 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5431+
CRD-POS-1275435 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5435+
CRD-POS-1275439 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5439+
CRD-POS-1275443 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5443+
CRD-POS-1275447 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 K.2/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5447+
CRD-POS-1275819 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5819+
CRD-POS-1275823 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5823+
CRD-POS-1275827 POSITION SWITCH	02C12	3	A	1 0 A	BZE6-2RN72	M302 M528	R 528 L.5/3.7	Y X	248003	N	612		C4				.17	CRD-HCU-5827+

EPN / DESCRIPTION / CONTRACT / LEVEL	MFG / MODEL / EC / USE / SAFETY FUNCTION	BLDG ELEV / DRAWING / A/E ZONE	STATUS S E / DETAIL / QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / HL TEST ANL FO C / ROOM / ACCURACY / FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-POS-1275831 POSITION SWITCH 02C12 3	M302 BZE6-2RN72 A 1 0 A	R 528 M528	Y X 248003 C4	N 612	.17 CRD-HCU-5831+
CRD-POS-1275835 POSITION SWITCH 02C12 3	M302 BZE6-2RN72 A 1 0 A	R 528 K.2/3.7 M528	Y X 248003 C4	N 612	.17 CRD-HCU-5835+
CRD-POS-1275839 POSITION SWITCH 02C12 3	M302 BZE6-2RN72 A 1 0 A	R 528 K.2/3.7 M528	Y X 248003 C4	N 612	.17 CRD-HCU-5839+
CRD-POS-1275843 POSITION SWITCH 02C12 3	M302 BZE6-2RN72 A 1 0 A	R 528 K.2/3.7 M528	Y X 248003 C4	N 612	.17 CRD-HCU-5843+
CRD-SPV-110A 1.5" SOL. CAS-F-6 DISCH. 02C12 2	A499 HVA-103-632 P 2 0 G1	R 529 M.6/3.8 M528	X X 315024 D13	R53	4320 CRD-IR-3+
CRD-SPV-110B 1.5" SOL. CAS-F-6 DISCH. 02C12 2	A499 HVA-103-632 P 2 0 G1	R 528 M.8/3.8 M528	X X 315024 D14	R53	4320 CRD-IR-3+
CRD-SPV-1170219 SCRAM SOLENOID PILOT CRD-V-126&127 02C12 2	A610 HVA904052-J A 1 0 A	R 530 L5/8.4 M528	A X 315020 D2	N 612	.17 CRD-HCU-0219+
CRD-SPV-1170223 SCRAM SOLENOID PILOT CRD-V-126&127 02C12 2	A610 HVA904052-J A 1 0 A	R 530 L5/8.4 M528	A X 315020 D2	N 612	.17 CRD-HCU-0223+
CRD-SPV-1170227 SCRAM SOLENOID PILOT CRD-V-126&127 02C12 2	A610 HVA904052-J A 1 0 A	R 530 L5/8.4 M528	A X 315020 D2	N 612	.17 CRD-HCU-0227+
CRD-SPV-1170231 SCRAM SOLENOID PILOT CRD-V-126&127 02C12 2	A610 HVA904052-J A 1 0 A	R 530 L5/8.4 M528	A X 315020 D2	N 612	.17 CRD-HCU-0231+
CRD-SPV-1170235 SCRAM SOLENOID PILOT CRD-V-126&127 02C12 2	A610 HVA904052-J A 1 0 A	R 530 K2/8.4 M528	A X 315020 D2	N 612	.17 CRD-HCU-0235+
CRD-SPV-1170239 SCRAM SOLENOID PILOT CRD-V-126&127 02C12 2	A610 HVA904052-J A 1 0 A	R 530 K2/8.4 M528	A X 315020 D2	N 612	.17 CRD-HCU-0239+
CRD-SPV-1170243 SCRAM SOLENOID PILOT CRD-V-126&127 02C12 2	A610 HVA904052-J A 1 0 A	R 530 K2/8.4 M528	A X 315020 D2	N 612	.17 CRD-HCU-0243+

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG	ELEV	STATUS / DETAIL	S	E	QID / ZONE	TM	HL	TEST	ANL	FQ	C	FREQ	ACCURACY	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SPV-1170615		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																CRD-HCU-0615+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1170619		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																CRD-HCU-0619+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1170623		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																CRD-HCU-0623+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1170627		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																CRD-HCU-0627+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1170631		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																CRD-HCU-0631+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1170635		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																CRD-HCU-0635+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1170639		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																CRD-HCU-0639+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1170643		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																CRD-HCU-0643+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1170647		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																CRD-HCU-0647+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1171011		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																CRD-HCU-1011+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1171015		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																CRD-HCU-1015+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1171019		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																CRD-HCU-1019+
02C12	2	A	1	0 A	M528			D2																
CRD-SPV-1171023		A610			HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																CRD-HCU-1023+
02C12	2	A	1	0 A	M528																			

EPN / CONTRACT	LEVEL	MFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL A/E	BLDG	ELEV DRAWING	STATUS S	E	QID DETAIL A/E	TM ZONE	HL ROOM	TEST ANL FO C ACCURACY	FREQ	ENV. (E) PARAMETERS AGING	DBE	C	HOURS COMPOSITE EPN
CRD-SPV-1171027		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4									CRD-HCU-1027+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171031		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4									CRD-HCU-1031+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171035		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4									CRD-HCU-1035+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171039		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4									CRD-HCU-1039+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171043		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4									CRD-HCU-1043+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171047		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4									CRD-HCU-1047+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171051		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4									CRD-HCU-1051+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171407		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4									CRD-HCU-1407+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171411		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4									CRD-HCU-1411+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171415		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4									CRD-HCU-1415+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171419		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4									CRD-HCU-1419+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171423		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4									CRD-HCU-1423+	
02C12	2	A	1	0 A	M528			D2										
CRD-SPV-1171427		A610		HVA904052-J				A	X	315020		N	612					.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4									CRD-HCU-1427+	
02C12	2	A	1	0 A	M528			D2										

EPN / CONTRACT	LEVEL	EC	USE	DESCRIPTION / SAFETY FUNCTION	MFG / MODEL	BLDG	ELEV	DRAWING	STATUS	S	E	DETAIL	QID	ZONE	TH	HL	TEST	ANL	FO	C	ACCURACY	FREQ	AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SPV-1171431				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																			CRD-HCU-1431+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171435				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																			CRD-HCU-1435+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171439				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																			CRD-HCU-1439+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171443				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																			CRD-HCU-1443+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171447				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																			CRD-HCU-1447+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171451				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																			CRD-HCU-1451+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171455				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4																			CRD-HCU-1455+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171803				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																			CRD-HCU-1803+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171807				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																			CRD-HCU-1807+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171811				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																			CRD-HCU-1811+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171815				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																			CRD-HCU-1815+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171819				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																			CRD-HCU-1819+
02C12	2	A	1	0 A	M528							D2															
CRD-SPV-1171823				A610	HVA904052-J				A	X		315020		N	612											.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4																			CRD-HCU-1823+
02C12	2	A	1	0 A	M528																						

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV	DRAWING	STATUS S	E	DETAIL / A/E ZONE	QID	TM	ZONE	HL	TEST	ANL	FO	C	ROOM	FREQ	ACCURACY	AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SPV-1171827		A610		HVA904052-J		R	530	L5/8.4		A	X	315020		N	612											.17	CRD-HCU-1827+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1171831		A610		HVA904052-J		R	530	L5/8.4		A	X	315020		N	612											.17	CRD-HCU-1831+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1171835		A610		HVA904052-J		R	530	K2/8.4		A	X	315020		N	612											.17	CRD-HCU-1835+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1171839		A610		HVA904052-J		R	530	K2/8.4		A	X	315020		N	612											.17	CRD-HCU-1839+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1171843		A610		HVA904052-J		R	530	K2/8.4		A	X	315020		N	612											.17	CRD-HCU-1843+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1171847		A610		HVA904052-J		R	530	K2/8.4		A	X	315020		N	612											.17	CRD-HCU-1847+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1171851		A610		HVA904052-J		R	530	K2/8.4		A	X	315020		N	612											.17	CRD-HCU-1851+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1171855		A610		HVA904052-J		R	530	K2/8.4		A	X	315020		N	612											.17	CRD-HCU-1855+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1171859		A610		HVA904052-J		R	530	K2/8.4		A	X	315020		N	612											.17	CRD-HCU-1859+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1172203		A610		HVA904052-J		R	530	L5/8.4		A	X	315020		N	612											.17	CRD-HCU-2203+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1172207		A610		HVA904052-J		R	530	L5/8.4		A	X	315020		N	612											.17	CRD-HCU-2207+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1172211		A610		HVA904052-J		R	530	L5/8.4		A	X	315020		N	612											.17	CRD-HCU-2211+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																
CRD-SPV-1172215		A610		HVA904052-J		R	530	L5/8.4		A	X	315020		N	612											.17	CRD-HCU-2215+
SCRAM SOLENOID PILOT CRD-V-126&127																											
02C12	2	A	1	0 A	M528						D2																

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG	ELEV	STATUS / DETAIL / A/E ZONE	S	E	QID / ZONE	TM / ROOM	HL	TEST	ANL	FQ	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SPV-1172219		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														CRD-HCU-2219+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172223		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														CRD-HCU-2223+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172227		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														CRD-HCU-2227+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172231		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														CRD-HCU-2231+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172235		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														CRD-HCU-2235+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172239		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														CRD-HCU-2239+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172243		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														CRD-HCU-2243+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172247		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														CRD-HCU-2247+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172251		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														CRD-HCU-2251+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172255		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														CRD-HCU-2255+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172259		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														CRD-HCU-2259+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172603		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														CRD-HCU-2603+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1172607		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														CRD-HCU-2607+
02C12	2	A	1	0 A	M528																	

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV / DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TM	HL / ROOM	TEST	ANL	FO	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SPV-1172611			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 L5/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2611+
CRD-SPV-1172615			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 L5/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2615+
CRD-SPV-1172619			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 L5/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2619+
CRD-SPV-1172623			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 L5/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2623+
CRD-SPV-1172627			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 L5/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2627+
CRD-SPV-1172631			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 L5/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2631+
CRD-SPV-1172635			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 K2/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2635+
CRD-SPV-1172639			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 K2/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2639+
CRD-SPV-1172643			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 K2/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2643+
CRD-SPV-1172647			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 K2/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2647+
CRD-SPV-1172651			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 K2/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2651+
CRD-SPV-1172655			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 K2/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2655+
CRD-SPV-1172659			A610	HVA904052-J				A	X		315020		N	612								.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530 K2/8.4															
02C12	2	A	1 0	A	M528			D2														CRD-HCU-2659+

EPN	MFG	MODEL	STATUS S E	QID	TH HL	ROOM	HOURS	DESCRIPTION	BLDG	ELEV	DETAIL	COMPOSITE EPN	CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	A/E DRAWING	A/E ZONE
CRD-SPV-1173003	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3003*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173007	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3007*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173011	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3011*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173015	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3015*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173019	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3019*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173023	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3023*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173027	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3027*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173031	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K.2/3.7	CRD-HCU-3031*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173035	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K.2/3.7	CRD-HCU-3035*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173039	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K.2/3.7	CRD-HCU-3039*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173043	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K.2/3.7	CRD-HCU-3043*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173047	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K.2/3.7	CRD-HCU-3047*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1173051	A610	HVA904052-J	A X	315020	N	612	.17	SCRA[illegible]LENOID PILOT CRD-V-126&127	R	530	K.[illegible]7	CRD-HCU-3051*	02C1[illegible]	2	A	1 0	A	M528	

Column headings as printed: CONTRACT, EPN, LEVEL, DESCRIPTION, EC, USE, SAFETY FUNCTION, MFG, MODEL, A/E, BLDG ELEV, A/E DRAWING, STATUS S E, DETAIL, A/E ZONE, QID, ***SEISMIC (S) PARAMETERS*** (TH, HL, TEST, AHL, FO, C, FREQ, ZONE, ROOM, ACCURACY), *ENV. (E) PARAMETERS* (AGING, DBE, C, HOURS, COMPOSITE EPN)

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG ELEV / DRAWING	STATUS / S E / DETAIL / A/E ZONE	QID	TM / ZONE	HL / ROOM	TEST	ANL FO C / ACCURACY	FREQ	***SEISMIC (S) PARAMETERS*** AGING	DBE	C	HOURS	*ENV. (E) PARAMETERS* COMPOSITE EPN
CRD-SPV-1173055		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	K.2/3.7											CRD-HCU-3055+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173059		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	L.5/3.7											CRD-HCU-3059+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173403		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	L.5/3.7											CRD-HCU-3403+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173407		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	L.5/3.7											CRD-HCU-3407+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173411		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	L.5/3.7											CRD-HCU-3411+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173415		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	L.5/3.7											CRD-HCU-3415+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173419		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	L.5/3.7											CRD-HCU-3419+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173423		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	L.5/3.7											CRD-HCU-3423+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173427		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	L.5/3.7											CRD-HCU-3427+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173431		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	K.2/3.7											CRD-HCU-3431+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173435		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	K.2/3.7											CRD-HCU-3435+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173439		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	K.2/3.7											CRD-HCU-3439+
02C12	2	A	1 0	A	M528		D2											
CRD-SPV-1173443		A610		HVA904052-J			A X	315020	N	612							.17	
SCRAM SOLENOID PILOT		CRD-V-126&127				R 530	K.2/3.7											CRD-HCU-3443+
02C12	2	A	1 0	A	M528		D2											

EPN / CONTRACT	LEVEL	MFG / MODEL / DESCRIPTION	EC	USE	SAFETY FUNCTION	A/E	BLDG	ELEV	DRAWING	STATUS S	E	DETAIL A/E	ZONE	QID	ZONE	TM	HL ROOM	TEST	ANL ACCURACY	FO	C	FREQ	AGING	DBE	C	HOURS COMPOSITE EPN
CRD-SPV-1173447		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	K.2/3.7														CRD-HCU-3447+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173451		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	K.2/3.7														CRD-HCU-3451+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173455		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	K.2/3.7														CRD-HCU-3455+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173459		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	K.2/3.7														CRD-HCU-3459+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173803		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	L.5/3.7														CRD-HCU-3803+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173807		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	L.5/3.7														CRD-HCU-3807+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173811		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	L.5/3.7														CRD-HCU-3811+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173815		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	L.5/3.7														CRD-HCU-3815+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173819		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	L.5/3.7														CRD-HCU-3819+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173823		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	L.5/3.7														CRD-HCU-3823+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173827		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	L.5/3.7														CRD-HCU-3827+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173831		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	K.2/3.7														CRD-HCU-3831+			
02C12	2	A	1	0	A	M528						D2														
CRD-SPV-1173835		A610 HVA904052-J								A	X			315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127							R	530	K.2/3.7														CRD-HCU-3835+			
02C12	2	A	1	0	A	M529						D2														

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV	STATUS / DRAWING	S	E	DETAIL / A/E ZONE	QID	TM / ZONE	HL	TEST	ANL	FO	C	FREQ / ROOM	ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SPV-1173839		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	K.2/3.7																CRD-HCU-3839+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1173843		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	K.2/3.7																CRD-HCU-3843+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1173847		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	K.2/3.7																CRD-HCU-3847+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1173851		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	K.2/3.7																CRD-HCU-3851+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1173855		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	K.2/3.7																CRD-HCU-3855+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1173859		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	K.2/3.7																CRD-HCU-3859+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1174203		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	L.5/3.7																CRD-HCU-4203+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1174207		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	L.5/3.7																CRD-HCU-4207+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1174211		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	L.5/3.7																CRD-HCU-4211+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1174215		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	L.5/3.7																CRD-HCU-4215+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1174219		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	L.5/3.7																CRD-HCU-4219+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1174223		A610		HVA904052-J					A	X		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	L.5/3.7																CRD-HCU-4223+
02C12	2	A	1	0 A	M528						D2													
CRD-SPV-1174227		A610		HVA904052-J					A	Y		315020		N	612									.17
SCRAM SOLENOID PILOT		CRD-V-126&127				R	530	L.5/3.7																CRD-HCU-4227+
02C12	2	A	1	0 A	M528						D2													

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL	QID / ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-SPV-1174231					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7					CRD-HCU-4231+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174235					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7					CRD-HCU-4235+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174239					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7					CRD-HCU-4239+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174243					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7					CRD-HCU-4243+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174247					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7					CRD-HCU-4247+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174251					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7					CRD-HCU-4251+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174255					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7					CRD-HCU-4255+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174259					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7					CRD-HCU-4259+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174607					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7					CRD-HCU-4607+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174611					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7					CRD-HCU-4611+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174615					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7					CRD-HCU-4615+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174619					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7					CRD-HCU-4619+
02C12	2	A	1 0	A	M528		D2					
CRD-SPV-1174623					A610 HVA904052-J		A X	315020	N	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7					CRD-HCU-4623+
02C12	2	A	1 0	A	M528		D2					

EPN CONTRACT	LEVEL	DESCRIPTION EC	USE	SAFETY FUNCTION	MFG MODEL A/E	BLDG DRAWING	ELEV	STATUS S E DETAIL A/E	QID ZONE	TM ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
CRD-SPV-1174627			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								L.5/3.7					CRD-HCU-4627+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1174631			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								K.2/3.7					CRD-HCU-4631+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1174635			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								K.2/3.7					CRD-HCU-4635+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1174639			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								K.2/3.7					CRD-HCU-4639+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1174643			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								K.2/3.7					CRD-HCU-4643+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1174647			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								K.2/3.7					CRD-HCU-4647+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1174651			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								K.2/3.7					CRD-HCU-4651+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1174655			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								K.2/3.7					CRD-HCU-4655+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1175011			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								L.5/3.7					CRD-HCU-5011+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1175015			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								L.5/3.7					CRD-HCU-5015+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1175019			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								L.5/3.7					CRD-HCU-5019+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1175023			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								L.5/3.7					CRD-HCU-5023+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1175027			A610	HVA904052-J		R	530	A X	315020	N	612			.17
SCRAM SOLENOID PILOT CRD-V-126&127								L.5/3.7					CRD-HCU-5027+	
02C12	2	A	1 0	A	M528			D2						

EPN / CONTRACT	LEVEL	MFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL A/E	BLDG	ELEV	DRAWING	STATUS S	E	DETAIL A/E	ZONE	QID	TM	HL	TEST	ANL	FO	C	FREQ	ACCURACY	ROOM	ENV. (E) PARAMETERS AGING	DRE	C	HOURS COMPOSITE EPN
CRD-SPV-1175031		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7															CRD-HCU-5031+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175035		A610		HVA904052-J					A	X			315020									612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7															CRD-HCU-5035+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175039		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7															CRD-HCU-5039+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175043		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7															CRD-HCU-5043+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175047		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7															CRD-HCU-5047+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175051		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7															CRD-HCU-5051+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175415		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7															CRD-HCU-5415+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175419		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7															CRD-HCU-5419+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175423		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7															CRD-HCU-5423+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175427		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7															CRD-HCU-5427+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175431		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7															CRD-HCU-5431+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175435		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7															CRD-HCU-5435+			
02C12	2	A	1	0 A	M528						D2															
CRD-SPV-1175439		A610		HVA904052-J					A	X			315020		N							612				.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7															CRD-HCU-5439+			
02C12	2	A	1	0 A	M528						D2															

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV / DRAWING	STATUS / DETAIL / A/E ZONE	QID / ZONE	TM / ROOM	HL	TEST	ANL	FO	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SPV-1175443			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-5443+			
CRD-SPV-1175447			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-5447+			
CRD-SPV-1175819			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-5819+			
CRD-SPV-1175823			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-5823+			
CRD-SPV-1175827			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-5827+			
CRD-SPV-1175831			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-5831+			
CRD-SPV-1175835			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-5835+			
CRD-SPV-1175839			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-5839+			
CRD-SPV-1175843			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-5843+			
CRD-SPV-1180219			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-0219+			
CRD-SPV-1180223			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-0223+			
CRD-SPV-1180227			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-0227+			
CRD-SPV-1180231			A610	HVA904052-J				A X	315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-0231+			

EPN / CONTRACT	LEVEL	EC	USE	DESCRIPTION / SAFETY FUNCTION	MFG / MODEL	BLDG / DRAWING	ELEV / A/E ZONE	STATUS / DETAIL	S	E	QID / ZONE	TM	HL / ROOM	TEST	ANL	FO	C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SPV-1180235				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4																CRD-HCU-0235+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180239				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4																CRD-HCU-0239+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180243				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4																CRD-HCU-0243+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180615				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4																CRD-HCU-0615+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180619				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4																CRD-HCU-0619+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180623				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4																CRD-HCU-0623+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180627				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4																CRD-HCU-0627+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180631				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4																CRD-HCU-0631+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180635				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4																CRD-HCU-0635+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180639				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4																CRD-HCU-0639+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180643				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4																CRD-HCU-0643+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1180647				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4																CRD-HCU-0647+
02C12	2	A	1 0	A	M528			D2															
CRD-SPV-1181011				A610 HVA904052-J				A	X		315020		N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5																CRD-HCU-1011+
02C1	2	A	1 0	A	M528																		

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E	BLDG	ELEV	STATUS / DETAIL / A/E ZONE	S	E	QID / ZONE	TM / ROOM	HL	TEST	ANL	FO	C	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SPV-1181015			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1015+
CRD-SPV-1181019			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1019+
CRD-SPV-1181023			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1023+
CRD-SPV-1181027			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1027+
CRD-SPV-1181031			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1031+
CRD-SPV-1181035			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1035+
CRD-SPV-1181039			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1039+
CRD-SPV-1181043			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1043+
CRD-SPV-1181047			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1047+
CRD-SPV-1181051			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1051+
CRD-SPV-1181407			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1407+
CRD-SPV-1181411			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1411+
CRD-SPV-1181415			A610	HVA904052-J				A	X	315020		N	612										.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4															
02C12	2	A	1 0	A	M528			D2															CRD-HCU-1415+

EPN / CONTRACT	LEVEL	MFG DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG DRAWING	ELEV	STATUS S E DETAIL / A/E	QID / ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CRD-SPV-1181419		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4						CRD-HCU-1419+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181423		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4						CRD-HCU-1423+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181427		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4						CRD-HCU-1427+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181431		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4						CRD-HCU-1431+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181435		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4						CRD-HCU-1435+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181439		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4						CRD-HCU-1439+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181443		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4						CRD-HCU-1443+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181447		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4						CRD-HCU-1447+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181451		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4						CRD-HCU-1451+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181455		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K2/8.4						CRD-HCU-1455+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181803		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4						CRD-HCU-1803+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181807		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4						CRD-HCU-1807+	
02C12	2	A	1 0	A	M528			D2						
CRD-SPV-1181811		A610			HVA904052-J			A X	315020		N 612			.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L5/8.4						CRD-HCU-1811+	
02C12	2	A	1 0	A	M528			D2						

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / FC	USE	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG	ELEV	STATUS S	E	DETAIL / A/E ZONE	QID	TM ZONE	HL ROOM	TEST	ANL	FO	C	FREQ ACCURACY	AGING	DBE	C	HOURS COMPOSITE EPN
CRD-SPV-1181815		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1815+			
CRD-SPV-1181819		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1819+			
CRD-SPV-1181823		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1823+			
CRD-SPV-1181827		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1827+			
CRD-SPV-1181831		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1831+			
CRD-SPV-1181835		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1835+			
CRD-SPV-1181839		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1839+			
CRD-SPV-1181843		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1843+			
CRD-SPV-1181847		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1847+			
CRD-SPV-1181851		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1851+			
CRD-SPV-1181855		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1855+			
CRD-SPV-1181859		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-1859+			
CRD-SPV-1182203		A610		HVA904052-J					A	X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4														
02C12	2	A	1	0 A	M528			D2											CRD-HCU-2203+			

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	A/E DRAWING	BLDG	ELEV	STATUS S	E	DETAIL	QID	ZONE	TM	HL	ROOM	TEST	ANL	FO	C	ACCURACY	FREQ	AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SPV-1182207	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	L5/8.4 D2	315020		N	612											.17	CRD-HCU-2207+
CRD-SPV-1182211	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	L5/8.4 D2	315020		N	612											.17	CRD-HCU-2211+
CRD-SPV-1182215	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	L5/8.4 D2	315020		N	612											.17	CRD-HCU-2215+
CRD-SPV-1182219	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	L5/8.4 D2	315020		N	612											.17	CRD-HCU-2219+
CRD-SPV-1182223	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	L5/8.4 D2	315020		N	612											.17	CRD-HCU-2223+
CRD-SPV-1182227	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	L5/8.4 D2	315020		N	612											.17	CRD-HCU-2227+
CRD-SPV-1182231	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	L5/8.4 D2	315020		N	612											.17	CRD-HCU-2231+
CRD-SPV-1182235	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	K2/8.4 D2	315020		N	612											.17	CRD-HCU-2235+
CRD-SPV-1182239	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	K2/8.4 D2	315020		N	612											.17	CRD-HCU-2239+
CRD-SPV-1182243	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	K2/8.4 D2	315020		N	612											.17	CRD-HCU-2243+
CRD-SPV-1182247	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	K2/8.4 D2	315020		N	612											.17	CRD-HCU-2247+
CRD-SPV-1182251	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	K2/8.4 D2	315020		N	612											.17	CRD-HCU-2251+
CRD-SPV-1182255	2	A	1	0 A	A610 HVA904052-J SCRAM SOLENOID PILOT CRD-V-126&127	M528	R	530	A	X	K2 D2	315020		N	612											.17	CRD-HCU-2255+

CONTRACT	EPN / LEVEL	DESCRIPTION / EC	MFG / USF	SAFETY FUNCTION	MODEL / A/E	BLDG / DRAWING	ELEV	STATUS S / DETAIL	E / A/E ZONE	QID / ZONE	TM / ROOM	SEISMIC (S) PARAMETERS HL / ANL	TEST / FO	C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING / COMPOSITE EPN	DBE	C	HOURS
CRD-SPV-1182259			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4								CRD-HCU-2259+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182603			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4								CRD-HCU-2603+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182607			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4								CRD-HCU-2607+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182611			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4								CRD-HCU-2611+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182615			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4								CRD-HCU-2615+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182619			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4								CRD-HCU-2619+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182623			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4								CRD-HCU-2623+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182627			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4								CRD-HCU-2627+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182631			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L5/8.4								CRD-HCU-2631+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182635			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4								CRD-HCU-2635+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182639			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4								CRD-HCU-2639+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182643			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4								CRD-HCU-2643+			
02C12	2	A	1	0 A	M528			D2											
CRD-SPV-1182647			A610	HVA904052-J				A	X	315020	N	612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K2/8.4								CRD-HCU-2647+			
02C12	2	A	1	0 A	M528			D2											

EPN	MFG	MODEL	STATUS S E	QID	HL	TEST	HOURS	DESCRIPTION	BLDG	ELEV	DETAIL	COMPOSITE EPN	CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	A/E DRAWING	A/E ZONE
CRD-SPV-1182651	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K2/8.4	CRD-HCU-2651*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1182655	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K2/8.4	CRD-HCU-2655*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1182659	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K2/8.4	CRD-HCU-2659*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183003	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3003*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183007	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3007*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183011	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3011*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183015	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3015*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183019	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3019*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183023	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3023*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183027	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	L5/8.4	CRD-HCU-3027*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183031	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K.2/3.7	CRD-HCU-3031*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183035	A610	HVA904052-J	A X	315020	N	612	.17	SCRAM SOLENOID PILOT CRD-V-126&127	R	530	K.2/3.7	CRD-HCU-3035*	02C12	2	A	1 0	A	M528	D2
CRD-SPV-1183039	A610	HVA904052-J	A X	315020	N	612	.17	SCRA[illegible]LENOID PILOT CRD-V-126&127	R	530	K.[illegible]7	CRD-HCU-3039*	02C1[illegible]	2	A	1 0	A	M528	

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV / DRAWING	STATUS / DETAIL / A/E ZONE	QID	TM / ZONE	HL / ROOM	TEST	ANL	FO	C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SPV-1183043		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3043+			
CRD-SPV-1183047		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3047+			
CRD-SPV-1183051		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3051+			
CRD-SPV-1183055		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3055+			
CRD-SPV-1183059		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3059+			
CRD-SPV-1183403		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3403+			
CRD-SPV-1183407		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3407+			
CRD-SPV-1183411		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3411+			
CRD-SPV-1183415		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3415+			
CRD-SPV-1183419		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3419+			
CRD-SPV-1183423		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3423+			
CRD-SPV-1183427		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3427+			
CRD-SPV-1183431		A610		HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												
02C12	2	A	1 0	A	M528			D2									CRD-HCU-3431+			

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV / DRAWING	STATUS / DETAIL	S	E	QID / A/E ZONE	TM / ZONE	HL	TEST	ANL	FO	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SPV-1183435		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K.2/3.7															CRD-HCU-3435+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183439		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K.2/3.7															CRD-HCU-3439+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183443		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K.2/3.7															CRD-HCU-3443+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183447		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K.2/3.7															CRD-HCU-3447+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183451		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K.2/3.7															CRD-HCU-3451+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183455		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K.2/3.7															CRD-HCU-3455+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183459		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 K.2/3.7															CRD-HCU-3459+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183803		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L.5/3.7															CRD-HCU-3803+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183807		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L.5/3.7															CRD-HCU-3807+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183811		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L.5/3.7															CRD-HCU-3811+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183815		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L.5/3.7															CRD-HCU-3815+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183819		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L.5/3.7															CRD-HCU-3819+
02C12	2	A	1	0 A	M528			D2														
CRD-SPV-1183823		A610		HVA904052-J				A	X		315020	N	612									.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530 L.5/3.7															CRD-HCU-3823+
02C12	2	A	1	0 A	M528			D2														

EPN / CONTRACT	LEVEL	EC	USE	MFG / DESCRIPTION / SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG	ELEV	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM	HL	TEST	ANL	FO	C	FREQ ACCURACY	AGING	DBE	C	HOURS COMPOSITE EPN
CRD-SPV-1183827			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												CRD-HCU-3827+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1183831			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												CRD-HCU-3831+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1183835			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												CRD-HCU-3835+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1183839			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												CRD-HCU-3839+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1183843			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												CRD-HCU-3843+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1183847			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												CRD-HCU-3847+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1183851			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												CRD-HCU-3851+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1183855			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												CRD-HCU-3855+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1183859			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7												CRD-HCU-3859+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184203			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												CRD-HCU-4203+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184207			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												CRD-HCU-4207+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184211			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												CRD-HCU-4211+
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184215			A610	HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7												CRD-HCU-4215+
02C12	2	A	1 0	A	M528			D2												

EPN / CONTRACT	LEVEL	HFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL A/E	BLDG DRAWING	ELEV A/E	STATUS S E DETAIL	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL ROOM	TEST ANL ACCURACY	FO C	FREQ	*ENV. (E) PARAMETERS* AGING COMPOSITE EPN	DBE	C	HOURS
CRD-SPV-1184219		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7							CRD-HCU-4219+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184223		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7							CRD-HCU-4223+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184227		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7							CRD-HCU-4227+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184231		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7							CRD-HCU-4231+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184235		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7							CRD-HCU-4235+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184239		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7							CRD-HCU-4239+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184243		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7							CRD-HCU-4243+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184247		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7							CRD-HCU-4247+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184251		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7							CRD-HCU-4251+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184255		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7							CRD-HCU-4255+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184259		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	K.2/3.7							CRD-HCU-4259+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184607		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7							CRD-HCU-4607+			
02C12	2	A	1 0	A	M528			D2									
CRD-SPV-1184611		A610		HVA904052-J				A X	315020	N 612							.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530	L.5/3.7							CRD-HCU-4611+			
02C12	2	A	1 0	A	M528			D2									

EPN / CONTRACT	LEVEL	EC	USE	MFG / DESCRIPTION / SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG	ELEV	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM	HL	TEST	ANL	FO	C	FREQ ACCURACY	ENV. (E) PARAMETERS AGING	DBE	C	HOURS COMPOSITE EPN
CRD-SPV-1184615				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	L.5/3.7									CRD-HCU-4615+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184619				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	L.5/3.7									CRD-HCU-4619+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184623				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	L.5/3.7									CRD-HCU-4623+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184627				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	L.5/3.7									CRD-HCU-4627+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184631				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	K.2/3.7									CRD-HCU-4631+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184635				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	K.2/3.7									CRD-HCU-4635+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184639				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	K.2/3.7									CRD-HCU-4639+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184643				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	K.2/3.7									CRD-HCU-4643+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184647				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	K.2/3.7									CRD-HCU-4647+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184651				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	K.2/3.7									CRD-HCU-4651+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1184655				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	K.2/3.7									CRD-HCU-4655+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1185011				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	L.5/3.7									CRD-HCU-5011+			
02C12	2	A	1 0	A	M528			D2												
CRD-SPV-1185015				A610 HVA904052-J				A X	315020		N	612								.17
SCRAM SOLENOID PILOT CRD-V-1268127						R	530	L.5/3.7									CRD-HCU-5015+			
02C12	2	A	1 0	A	M528			D2												

EPN / CONTRACT	LEVEL	MFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL : A/E DRAWING	BLDG ELEV A/E ZONE	STATUS S E DETAIL	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CRD-SPV-1185019		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 L.5/3.7					CRD-HCU-5019+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185023		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 L.5/3.7					CRD-HCU-5023+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185027		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 L.5/3.7					CRD-HCU-5027+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185031		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 K.2/3.7					CRD-HCU-5031+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185035		A610		HVA904052-J			A X	315020	612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 K.2/3.7					CRD-HCU-5035+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185039		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 K.2/3.7					CRD-HCU-5039+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185043		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 K.2/3.7					CRD-HCU-5043+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185047		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 K.2/3.7					CRD-HCU-5047+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185051		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 K.2/3.7					CRD-HCU-5051+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185415		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 L.5/3.7					CRD-HCU-5415+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185419		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 L.5/3.7					CRD-HCU-5419+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185423		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 L.5/3.7					CRD-HCU-5423+
02C12	2	A	1 0	A	M528		D2				
CRD-SPV-1185427		A610		HVA904052-J			A X	315020	N 612		.17
SCRAM SOLENOID PILOT CRD-V-126&127						R 530 L.5/3.7					CRD-HCU-5427+
02C12	2	A	1 0	A	M528		D2				

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E	BLDG	ELEV	STATUS / DRAWING	S	C	BID / A/E ZONE	TM	ZONE	HL	TEST	ANL	FO	C	FREQ / ACCURACY	ROOM	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SPV-1185431					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7																	CRD-HCU-5431+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185435					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7																	CRD-HCU-5435+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185439					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7																	CRD-HCU-5439+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185443					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7																	CRD-HCU-5443+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185447					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7																	CRD-HCU-5447+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185819					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7																	CRD-HCU-5819+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185823					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7																	CRD-HCU-5823+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185827					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	L.5/3.7																	CRD-HCU-5827+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185831					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7																	CRD-HCU-5831+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185835					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7																	CRD-HCU-5835+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185839					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7																	CRD-HCU-5839+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-1185843					A610 HVA904052-J				A	X	315020			N						612				.17	
SCRAM SOLENOID PILOT CRD-V-126&127						R	530	K.2/3.7																	CRD-HCU-5843+
02C12	2	A	1	0 A	M528			D2																	
CRD-SPV-192					V030 V070900-45S/N10				P		315026														16 E .17
SOL. VALVE TO CRD-V-180/181						R	525	J.1/4.8																	
02	2	A	1	0 A,D1	M528			C10																	

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG	MODEL	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TH / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CRD-SPV-9 1.5" SOLENOID CAS TO CRD-V-10 02C12	2	A	1 0	A	V030	V70900-46	R 528	P 315026 J.2/4.6 D12					06 E	.17
CRD-SV-120/0219 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 L5/8.4 C4		N 612			CRD-HCU-0219+	.17
CRD-SV-120/0223 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 L5/8.4 C4		N 612			CRD-HCU-0223+	.17
CRD-SV-120/0227 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 L5/8.4 C4		N 612			CRD-HCU-0227+	.17
CRD-SV-120/0231 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 L5/8.4 C4		N 612			CRD-HCU-0231+	.17
CRD-SV-120/0235 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 K2/8.4 C4		N 612			CRD-HCU-0235+	.17
CRD-SV-120/0239 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 K2/8.4 C4		N 612			CRD-HCU-0239+	.17
CRD-SV-120/0243 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 K2/8.4 C4		N 612			CRD-HCU-0243+	.17
CRD-SV-120/0615 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 L5/8.4 C4		N 612			CRD-HCU-0615+	.17
CRD-SV-120/0619 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 L5/8.4 C4		N 612			CRD-HCU-0619+	.17
CRD-SV-120/0623 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 L5/8.4 C4		N 612			CRD-HCU-0623+	.17
CRD-SV-120/0627 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	X X 324007 L5/8.4 C4		N 612			CRD-HCU-0627+	.17
CRD-SV-120/0631 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A.B1	A610	HVA1709662A	R 528	A X 324007 L5/8.4 C4		N 612			CRD-HCU-0631+	.17

EPN / CONTRACT	LEVEL	MFG EC	DESCRIPTION USE	SAFETY FUNCTION	MODEL A/E	BLDG DRAWING	ELEV A/E ZONE	STATUS S	E	QID ZONE	TM	HL ROOM	SEISMIC (S) PARAMETERS TEST	ANL	FO	C ACCURACY	FREQ	ENV. (E) PARAMETERS AGING	DBE	C	HOURS COMPOSITE EPN
CRD-SV-120/0635		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-0635+			
CRD-SV-120/0639		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-0639+			
CRD-SV-120/0643		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-0643+			
CRD-SV-120/0647		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-0647+			
CRD-SV-120/1011		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-1011+			
CRD-SV-120/1015		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-1015+			
CRD-SV-120/1019		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-1019+			
CRD-SV-120/1023		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-1023+			
CRD-SV-120/1027		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-1027+			
CRD-SV-120/1031		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-1031+			
CRD-SV-120/1035		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-1035+			
CRD-SV-120/1039		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-1039+			
CRD-SV-120/1043		A610		HVA1709662A				X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1 0	A,B1	M528		C4											CRD-HCU-1043+			

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	MODEL / SAFETY FUNCTION	BLDG / DRAWING	ELEV / A/E	STATUS S / DETAIL	E / A/E ZONE	QID / ZONE	TM	***SEISMIC (S) PARAMETERS*** HL / ROOM	TEST	ANL	FQ	C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DRE	C	HOURS
CRD-SV-120/1047		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K2/8.4										CRD-HCU-1047+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1051		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K2/8.4										CRD-HCU-1051+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1407		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L5/8.4										CRD-HCU-1407+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1411		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L5/8.4										CRD-HCU-1411+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1415		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L5/8.4										CRD-HCU-1415+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1419		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L5/8.4										CRD-HCU-1419+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1423		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L5/8.4										CRD-HCU-1423+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1427		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L5/8.4										CRD-HCU-1427+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1431		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L5/8.4										CRD-HCU-1431+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1435		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K2/8.4										CRD-HCU-1435+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1439		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K2/8.4										CRD-HCU-1439+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1443		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K2/8.4										CRD-HCU-1443+			
02C12	2	A	1 0	A,B1	M528		C4													
CRD-SV-120/1447		A610		HVA1709662A			X	X	324007		N 612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K2										CRD-HCU-1447+			
02C1	2	A	1 0	A,B1	M528															

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG	ELEV	DRAWING	STATUS S	E	QID	SEISMIC (S) PARAMETERS TM	HL	TEST	ANL	FO	C	FREQ	ENV. (E) PARAMETERS AGING	DBE	C	HOURS
CRD-SV-120/1451				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1451+				
CRD-SV-120/1455				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1455+				
CRD-SV-120/1803				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1803+				
CRD-SV-120/1807				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1807+				
CRD-SV-120/1811				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1811+				
CRD-SV-120/1815				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1815+				
CRD-SV-120/1819				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1819+				
CRD-SV-120/1823				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1823+				
CRD-SV-120/1827				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1827+				
CRD-SV-120/1831				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1831+				
CRD-SV-120/1835				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1835+				
CRD-SV-120/1839				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1839+				
CRD-SV-120/1843				A610	HVA1709662A				X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4														
02C12	2	A	1 0	A,B1	M528			C4										CRD-HCU-1843+				

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG / DRAWING	ELEV / A/E ZONE	STATUS / DETAIL	S	E	QID / ZONE	TM	HL / ROOM	TEST	ANL	FO	C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SV-120/1847		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4															CRD-HCU-1847+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/1851		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4															CRD-HCU-1851+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/1855		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4															CRD-HCU-1855+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/1859		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4															CRD-HCU-1859+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/2203		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4															CRD-HCU-2203+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/2207		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4															CRD-HCU-2207+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/2211		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4															CRD-HCU-2211+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/2215		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4															CRD-HCU-2215+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/2219		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4															CRD-HCU-2219+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/2223		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4															CRD-HCU-2223+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/2227		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4															CRD-HCU-2227+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/2231		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L5/8.4															CRD-HCU-2231+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-120/2235		A610			HVA1709662A				X	X	324007		N	612								.17	
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K2/8.4															CRD-HCU-2235+
02C12	2	A	1	0 A,B1	M528			C4															

EPN	Description	Contract	Level	EC	Use	Safety Function	MFG	Model	A/E	BLDG	ELEV	Detail	A/E Zone	Status S	Status E	QID	HL	Room	Composite EPN	Hours
CRD-SV-120/2239	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709662A	M528	R	522	K2/8.4	C4	X	X	324007	N	612	CRD-HCU-2239+	.17
CRD-SV-120/2243	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709662A	M528	R	522	K2/8.4	C4	X	X	324007	N	612	CRD-HCU-2243+	.17
CRD-SV-120/2247	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,P1	A610	HVA1709662A	M528	R	522	K2/8.4	C4	X	X	324007	N	612	CRD-HCU-2247+	.17
CRD-SV-120/2251	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,B1	AE10	HVA1709662A	M528	R	522	K2/8.4	C4	X	X	324007	N	612	CRD-HCU-2251+	.17
CRD-SV-120/2255	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,F1	A610	HVA1709662A	M528	R	522	K2/8.4	C4	X	X	324007	N	612	CRD-HCU-2255+	.17
CRD-SV-120/2259	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,P1	A610	HVA1709662A	M528	R	522	K2/8.4	C4	X	X	324007	N	612	CRD-HCU-2259+	.17
CRD-SV-120/2603	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709662A	M528	R	522	L5/8.4	C4	X	X	324007	N	612	CRD-HCU-2603+	.17
CRD-SV-120/2607	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709662A	M528	R	522	L5/8.4	C4	X	X	324007	N	612	CRD-HCU-2607+	.17
CRD-SV-120/2611	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709662A	M528	R	522	L5/8.4	C4	X	X	324007	N	612	CRD-HCU-2611+	.17
CRD-SV-120/2615	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,P1	A610	HVA1709662A	M528	R	522	L5/8.4	C4	X	X	324007	N	612	CRD-HCU-2615+	.17
CRD-SV-120/2619	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	P	1 0	A,B1	A610	HVA1709662A	M528	R	522	L5/8.4	C4	X	X	324007	N	612	CRD-HCU-2619+	.17
CRD-SV-120/2623	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,F1	A610	HVA1709662A	M529	R	522	L5/8.4	C4	X	X	324007	N	612	CRD-HCU-2623+	.17
CRD-SV-120/2627	.5"SOLENOID WITHDRAW EXHAUST VALVE	02C12	2	A	1 0	A,F1	A610	HVA1709662A	M528	R	522	L5/8.4	C4	X	X	324007	N	612	CRD-HCU-2627+	.17

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG / A/E DRAWING	ELEV / DETAIL	STATUS S	E	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM	HL / ROOM	TEST	ANL	FO	C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-120/2631					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-2631+
CRD-SV-120/2635					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-2635+
CRD-SV-120/2639					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-2639+
CRD-SV-120/2643					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-2643+
CRD-SV-120/2647					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-2647+
CRD-SV-120/2651					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-2651+
CRD-SV-120/2655					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-2655+
CRD-SV-120/2659					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 K2/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-2659+
CRD-SV-120/3003					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-3003+
CRD-SV-120/3007					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-3007+
CRD-SV-120/3011					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-3011+
CRD-SV-120/3015					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-3015+
CRD-SV-120/3019					A610 HVA1709662A			X	X	324007		N	612								.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522 L5/8.4														
02C12	2	A	1	0 A,B1	M528		C4														CRD-HCU-3019+

EPN	MFG	MODEL	STATUS S E	QID	TM	ROOM	DESCRIPTION	BLDG	ELEV	DETAIL	CONTRACT	LEVEL	EC.	USE	SAFETY FUNCTION	A/E DRAWING	A/E ZONE	COMPOSITE EPN	HOURS
CRD-SV-120/3023	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	L5/8.4	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3023+	.17
CRD-SV-120/3027	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	L5/8.4	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3027+	.17
CRD-SV-120/3031	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	L.5/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3031+	.17
CRD-SV-120/3035	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	K.2/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3035+	.17
CRD-SV-120/3039	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	K.2/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3039+	.17
CRD-SV-120/3043	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	K.2/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3043+	.17
CRD-SV-120/3047	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	K.2/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3047+	.17
CRD-SV-120/3051	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	K.2/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3051+	.17
CRD-SV-120/3055	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	K.2/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3055+	.17
CRD-SV-120/3059	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	K.2/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3059+	.17
CRD-SV-120/3403	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	L.5/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3403+	.17
CRD-SV-120/3407	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	L.5/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3407+	.17
CRD-SV-120/3411	A610	HVA1709662A	X X	324007	N	612	.5"SOLENOID WITHDRAW EXHAUST VALVE	R	522	L.5/3.7	02C12	2	A	1 0	A,B1	M528	C4	CRD-HCU-3411+	.17

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	MODEL / SAFETY FUNCTION	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / HL / ROOM	TEST ANL FQ C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE C / HOURS
CRD-SV-120/3415		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	L.5/3.7					CRD-HCU-3415*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3419		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	L.5/3.7					CRD-HCU-3419*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3423		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	L.5/3.7					CRD-HCU-3423*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3427		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	L.5/3.7					CRD-HCU-3427*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3431		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	K.2/3.7					CRD-HCU-3431*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3435		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	K.2/3.7					CRD-HCU-3435*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3439		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	K.2/3.7					CRD-HCU-3439*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3443		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	K2/8.4					CRD-HCU-3443*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3447		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	K.2/3.7					CRD-HCU-3447*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3451		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	K.2/3.7					CRD-HCU-3451*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3455		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	K.2/3.7					CRD-HCU-3455*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3459		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	K.2/3.7					CRD-HCU-3459*	
02C12	2	A	1 0	A,P1	M528	C4						
CRD-SV-120/3803		A610		HVA1709662A		X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R 522	L.5/3.7					CRD-HCU-3803*	
02C12	2	A	1 0	A,P1	M528	C4						

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E	BLDG / DRAWING	ELEV / A/E ZONE	STATUS S	E	QID	SEISMIC (S) PARAMETERS TM	HL	TEST ROOM	ANL	FQ	C	FREQ ACCURACY	ENV. (E) PARAMETERS AGING	DBE	C	HOURS COMPOSITE EPN
CRD-SV-120/3807					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L.5/3.7										CRD-HCU-3807+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3811					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L.5/3.7										CRD-HCU-3811+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3815					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L.5/3.7										CRD-HCU-3815+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3819					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L.5/3.7										CRD-HCU-3819+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3823					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L.5/3.7										CRD-HCU-3823+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3827					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	L.5/3.7										CRD-HCU-3827+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3831					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K.2/3.7										CRD-HCU-3831+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3835					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K.2/3.7										CRD-HCU-3835+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3839					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K.2/3.7										CRD-HCU-3839+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3843					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K.2/3.7										CRD-HCU-3843+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3847					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K.2/3.7										CRD-HCU-3847+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3851					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K.2/3.7										CRD-HCU-3851+			
02C12	2	A	1	0	A,B1	M528		C4													
CRD-SV-120/3855					A610	HVA1709662A			X	X	324007		N	612							.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R	522	K.2/3.7										CRD-HCU-3855+			
02C12	2	A	1	0	A,B1	M528		C4													

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL	BLDG ELEV DRAWING A/E	STATUS S E DETAIL A/E ZONE	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FQ C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CRD-SV-120/3859 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X K.2/3.7 C4	324007	N 612		.17 CRD-HCU-3859*
CRD-SV-120/4203 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X L.5/3.7 C4	324007	N 612		.17 CRD-HCU-4203*
CRD-SV-120/4207 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X L.5/3.7 C4	324007	N 612		.17 CRD-HCU-4207*
CRD-SV-120/4211 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X L.5/3.7 C4	324007	N 612		.17 CRD-HCU-4211*
CRD-SV-120/4215 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X L.5/3.7 C4	324007	N 612		.17 CRD-HCU-4215*
CRD-SV-120/4219 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X L.5/3.7 C4	324007	N 612		.17 CRD-HCU-4219*
CRD-SV-120/4223 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X L.5/3.7 C4	324007	N 612		.17 CRD-HCU-4223*
CRD-SV-120/4227 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X L.5/3.7 C4	324007	N 612		.17 CRD-HCU-4227*
CRD-SV-120/4231 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X K.2/3.7 C4	324007	N 612		.17 CRD-HCU-4231*
CRD-SV-120/4235 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X K.2/3.7 C4	324007	N 612		.17 CRD-HCU-4235*
CRD-SV-120/4239 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X K.2/3.7 C4	324007	N 612		.17 CRD-HCU-4239*
CRD-SV-120/4243 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X K.2/3.7 C4	324007	N 612		.17 CRD-HCU-4243*
CRD-SV-120/4247 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12 2 A 1 0 A,B1	A610 HVA1709662A	R 522 M528	X X K.2/3.7 C4	324007	N 612		.17 CRD-HCU-4247*

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CRD-SV-120/4251	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 K.2/3.7 M528	X X C4	324007	N 612		CRD-HCU-4251*		.17
CRD-SV-120/4255	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 K.2/3.7 M528	X X C4	324007	N 612		CRD-HCU-4255*		.17
CRD-SV-120/4259	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 K.2/3.7 M528	X X C4	324007	N 612		CRD-HCU-4259*		.17
CRD-SV-120/4607	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 L.5/3.7 M528	X X C4	324007	N 612		CRD-HCU-4607*		.17
CRD-SV-120/4611	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 L.5/3.7 M528	X X C4	324007	N 612		CRD-HCU-4611*		.17
CRD-SV-120/4615	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 L.5/3.7 M528	X X C4	324007	N 612		CRD-HCU-4615*		.17
CRD-SV-120/4619	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 L.5/3.7 M528	X X C4	324007	N 612		CRD-HCU-4619*		.17
CRD-SV-120/4623	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 L.5/3.7 M528	X X C4	324007	N 612		CRD-HCU-4623*		.17
CRD-SV-120/4627	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 L.5/3.7 M528	X X C4	324007	N 612		CRD-HCU-4627*		.17
CRD-SV-120/4631	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 K.2/3.7 M528	X X C4	324007	N 612		CRD-HCU-4631*		.17
CRD-SV-120/4635	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 K.2/3.7 M528	X X C4	324007	N 612		CRD-HCU-4635*		.17
CRD-SV-120/4639	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 K.2/3.7 M528	X X C4	324007	N 612		CRD-HCU-4639*		.17
CRD-SV-120/4643	2	A	1 0	A,B1	A610 HVA1709662A .5"SOLENOID WITHDRAW EXHAUST VALVE	R 522 K.2/3.7 M528	X X C4	324007	N 612		CRD-HCU-4643*		.17

EPN / CONTRACT	LEVEL	MFG / EC	DESCRIPTION / USE	MODEL / SAFETY FUNCTION	BLDG	ELEV	STATUS / DETAIL	S	E	QID / ZONE	TM	HL	TEST	ANL	FO	C	FREQ	ENV. (E) PARAMETERS / AGING	DBE	C	HOURS
CRD-SV-120/4647		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K.2/3.7											CRD-HCU-4647+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/4651		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K.2/3.7											CRD-HCU-4651+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/4655		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K.2/3.7											CRD-HCU-4655+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5011		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L.5/3.7											CRD-HCU-5011+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5015		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L.5/3.7											CRD-HCU-5015+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5019		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L.5/3.7											CRD-HCU-5019+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5023		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L.5/3.7											CRD-HCU-5023+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5027		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	L.5/3.7											CRD-HCU-5027+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5031		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K.2/3.7											CRD-HCU-5031+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5035		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K.2/3.7											CRD-HCU-5035+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5039		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K.2/3.7											CRD-HCU-5039+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5043		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K.2/3.7											CRD-HCU-5043+			
02C12	2	A	1 0	A.B1	M528		C4														
CRD-SV-120/5047		A610	HVA1709662A					X	X	324007	N	612									.17
.5"SOLENOID WITHDRAW EXHAUST VALVE					R	522	K.2/3.7											CRD-HCU-5047+			
02C12	2	A	1 0	A.B1	M528		C4														

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-SV-120/5051 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 K.2/3.7	X X C4	324007	N 612		.17 CRD-HCU-5051+
CRD-SV-120/5415 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 L.5/3.7	X X C4	324007	N 612		.17 CRD-HCU-5415+
CRD-SV-120/5419 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 L.5/3.7	X X C4	324007	N 612		.17 CRD-HCU-5419+
CRD-SV-120/5423 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 L.5/3.7	X X C4	324007	N 612		.17 CRD-HCU-5423+
CRD-SV-120/5427 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 L.5/3.7	X X C4	324007	N 612		.17 CRD-HCU-5427+
CRD-SV-120/5431 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 K2/8.4	X X C4	324007	N 612		.17 CRD-HCU-5431+
CRD-SV-120/5435 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 K.2/3.7	X X C4	324007	N 612		.17 CRD-HCU-5435+
CRD-SV-120/5439 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 K.2/3.7	X X C4	324007	N 612		.17 CRD-HCU-5439+
CRD-SV-120/5443 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 K.2/3.7	X X C4	324007	N 612		.17 CRD-HCU-5443+
CRD-SV-120/5447 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 K.2/3.7	X X C4	324007	N 612		.17 CRD-HCU-5447+
CRD-SV-120/5819 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 L.5/3.7	X X C4	324007	N 612		.17 CRD-HCU-5819+
CRD-SV-120/5823 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 L.5/3.7	X X C4	324007	N 612		.17 CRD-HCU-5823+
CRD-SV-120/5827 .5"SOLENOID WITHDRAW EXHAUST VALVE 02C12	2	A	1 0	A,B1	A610 HVA1709662A M528	R 522 L.5/3.7	X X C4	324007	N 612		.17 CRD-HCU-5827+

EPN / CONTRACT	LEVEL	MFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL A/E	BLDG ELEV DRAWING A/E	STATUS S E DETAIL	QID ZONE	TM ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
CRD-SV-120/5831		A610		HVA1709662A			X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R 522 K.2/3.7						CRD-HCU-5831+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-120/5835		A610		HVA1709662A			X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R 522 K.2/3.7						CRD-HCU-5835+	
02C12	2	A	1 0	A.E1	M528		C4						
CRD-SV-120/5839		A610		HVA1709662A			X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R 522 K.2/3.7						CRD-HCU-5839+	
02C12	2	A	1 0	A.P1	M528		C4						
CRD-SV-120/5843		A610		HVA1709662A			X X	324007	N 612				.17
.5"SOLENOID WITHDRAW EXHAUST VALVE						R 522 K.2/3.7						CRD-HCU-5843+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-121/0219		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-0219+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-121/0223		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-0223+	
02C12	2	A	1 0	A.E1	M528		C4						
CRD-SV-121/0227		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-0227+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-121/0231		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-0231+	
02C12	2	A	1 0	A.P1	M528		C4						
CRD-SV-121/0235		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 K2/8.4						CRD-HCU-0235+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-121/0239		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 K2/8.4						CRD-HCU-0239+	
02C12	2	A	1 0	A.E1	M528		C4						
CRD-SV-121/0243		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 K2/8.4						CRD-HCU-0243+	
02C12	2	A	1 0	A.P1	M528		C4						
CRD-SV-121/0615		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-0615+	
02C12	2	A	1 0	A.P1	M528		C4						
CRD-SV-121/0619		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-0619+	
02C12	2	A	1 0	A.E1	M528		C4						

EPN / CONTRACT	LEVEL	MFG DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG ELEV / DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TH / HL TEST / ROOM	ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / DBE C / COMPOSITE EPN	HOURS
CRD-SV-121/0623		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-0623+	
02C12	2	A	1 0	A,P1	M528		C4						
CRD-SV-121/0627		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-0627+	
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/0631		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-0631+	
02C12	2	A	1 0	A,P1	M528		C4						
CRD-SV-121/0635		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 K2/8.4						CRD-HCU-0635+	
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/0639		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 K2/8.4						CRD-HCU-0639+	
02C12	2	A	1 0	A,P1	M528		C4						
CRD-SV-121/0643		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 K2/8.4						CRD-HCU-0643+	
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/0647		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 K2/8.4						CRD-HCU-0647+	
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1011		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-1011+	
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1015		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-1015+	
02C12	2	A	1 0	A,P1	M528		C4						
CRD-SV-121/1019		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-1019+	
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1023		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-1023+	
02C12	2	A	1 0	A,P1	M528		C4						
CRD-SV-121/1027		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-1027+	
02C12	2	A	1 0	A,P1	M528		C4						
CRD-SV-121/1031		A610		HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528 L5/8.4						CRD-HCU-1031+	
02C12	2	A	1 0	A,P1	M528		C4						

EPN	DESCRIPTION	CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG	MODEL	A/E	BLDG	ELEV	DETAIL	A/E ZONE	STATUS S E	QID	TH	HL	TEST ROOM	ANL	FO	C ACCURACY	FREQ	AGING	DBE	C	COMPOSITE EPN	HOURS
CRD-SV-121/1035	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K2/8.4	C4	A X	324007		N	612								CRD-HCU-1035+	.17
CRD-SV-121/1039	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K2/8.4	C4	A X	324007		N	612								CRD-HCU-1039+	.17
CRD-SV-121/1043	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K2/8.4	C4	A X	324007		N	612								CRD-HCU-1043+	.17
CRD-SV-121/1047	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K2/8.4	C4	A X	324007		N	612								CRD-HCU-1047+	.17
CRD-SV-121/1051	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K2/8.4	C4	A X	324007		N	612								CRD-HCU-1051+	.17
CRD-SV-121/1407	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L5/8.4	C4	A X	324007		N	612								CRD-HCU-1407+	.17
CRD-SV-121/1411	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L5/8.4	C4	A X	324007		N	612								CRD-HCU-1411+	.17
CRD-SV-121/1415	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L5/8.4	C4	A X	324007		N	612								CRD-HCU-1415+	.17
CRD-SV-121/1419	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L5/8.4	C4	A X	324007		N	612								CRD-HCU-1419+	.17
CRD-SV-121/1423	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L5/8.4	C4	A X	324007		N	612								CRD-HCU-1423+	.17
CRD-SV-121/1427	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L5/8.4	C4	A X	324007		N	612								CRD-HCU-1427+	.17
CRD-SV-121/1431	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L5/8.4	C4	A Y	324007		N	612								CRD-HCU-1431+	.17
CRD-SV-121/1435	.5"SOLENOID INSERT EXHAUST VALVE	02C12	2	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K2		A X	324007		N	612								CRD-HCU-1435+	.17

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL A/E	BLDG DRAWING	ELEV A/E	STATUS S E DETAIL	QID ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ROOM	ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CRD-SV-121/1439		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	K2/8.4						CRD-HCU-1439+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1443		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	K2/8.4						CRD-HCU-1443+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1447		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	K2/8.4						CRD-HCU-1447+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1451		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	K2/8.4						CRD-HCU-1451+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1455		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	K2/8.4						CRD-HCU-1455+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1803		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	L5/8.4						CRD-HCU-1803+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1807		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	L5/8.4						CRD-HCU-1807+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1811		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	L5/8.4						CRD-HCU-1811+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1815		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	L5/8.4						CRD-HCU-1815+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1819		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	L5/8.4						CRD-HCU-1819+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1823		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	L5/8.4						CRD-HCU-1823+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1827		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	L5/8.4						CRD-HCU-1827+
02C12	2	A	1 0	A,B1	M528		C4						
CRD-SV-121/1831		A610		HVA1709661A				A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE						R 528	L5/8.4						CRD-HCU-1831+
02C12	2	A	1 0	A,B1	M528		C4						

EPN / DESCRIPTION	MFG / MODEL	BLDG ELEV / DETAIL / ZONE	STATUS S E / QID / TM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FQ C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-SV-121/1835	A610 HVA1709661A	R 528 K2/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-1835*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/1839	A610 HVA1709661A	R 528 K2/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-1839*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/1843	A610 HVA1709661A	R 528 K2/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-1843*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/1847	A610 HVA1709661A	R 528 K2/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-1847*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/1851	A610 HVA1709661A	R 528 K2/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-1851*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/1855	A610 HVA1709661A	R 528 K2/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-1855*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/1859	A610 HVA1709661A	R 528 K2/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-1859*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/2203	A610 HVA1709661A	R 528 L5/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-2203*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/2207	A610 HVA1709661A	R 528 L5/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-2207*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/2211	A610 HVA1709661A	R 528 L5/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-2211*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/2215	A610 HVA1709661A	R 528 L5/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-2215*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/2219	A610 HVA1709661A	R 528 L5/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-2219*
02C12 2 A 1 0 A,B1	M528	C4				
CRD-SV-121/2223	A610 HVA1709661A	R 528 L5/8.4	A X 324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE						CRD-HCU-2223*
02C12 2 A 1 0 A,B1	M528	C4				

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV / DRAWING	STATUS S	E	QID / ZONE	TM	HL	TEST / ROOM	ANL	FO	C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-121/2227		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L5/8.4														CRD-HCU-2227*
02C12	2	A	1 0	A,B1	M528		C4														
CRD-SV-121/2231		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L5/8.4														CRD-HCU-2231*
02C12	2	A	1 0	A,E1	M528		C4														
CRD-SV-121/2235		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K2/8.4														CRD-HCU-2235*
02C12	2	A	1 0	A,C1	M528		C4														
CRD-SV-121/2239		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K2/8.4														CRD-HCU-2239*
02C12	2	A	1 0	A,B1	M528		C4														
CRD-SV-121/2243		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K2/8.4														CRD-HCU-2243*
02C12	2	A	1 0	A,B1	M528		C4														
CRD-SV-121/2247		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K2/8.4														CRD-HCU-2247*
02C12	2	A	1 0	A,B1	M528		C4														
CRD-SV-121/2251		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K2/8.4														CRD-HCU-2251*
02C12	2	A	1 0	A,B1	M528		C4														
CRD-SV-121/2255		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K2/8.4														CRD-HCU-2255*
02C12	2	A	1 0	A,B1	M528		C4														
CRD-SV-121/2259		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K2/8.4														CRD-HCU-2259*
02C12	2	A	1 0	A,B1	M528		C4														
CRD-SV-121/2603		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L5/8.4														CRD-HCU-2603*
02C12	2	A	1 0	A,B1	M528		C4														
CRD-SV-121/2607		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L5/8.4														CRD-HCU-2607*
02C12	2	A	1 0	A,B1	M528		C4														
CRD-SV-121/2611		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L5/8.4														CRD-HCU-2611*
02C12	2	A	1 0	A,F1	M528		C4														
CRD-SV-121/2615		A610		HVA1709661A				A	X	324007		N	612								.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L5/8.4														CRD-HCU-2615*
02C12	2	A	1 0	A,F1	M528		C4														

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG / DRAWING	ELEV	STATUS / DETAIL / A/E ZONE	S	E	QID / ZONE	TM	HL / ROOM	TEST	ANL	FO	C	SEISMIC (S) PARAMETERS: FREQ / ACCURACY	ENV. (E) PARAMETERS: AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-121/2619		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L5/8.4														CRD-HCU-2619+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2623		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L5/8.4														CRD-HCU-2623+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2627		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L5/8.4														CRD-HCU-2627+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2631		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L5/8.4														CRD-HCU-2631+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2635		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K2/8.4														CRD-HCU-2635+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2639		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K2/8.4														CRD-HCU-2639+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2643		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K2/8.4														CRD-HCU-2643+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2647		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K2/8.4														CRD-HCU-2647+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2651		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K2/8.4														CRD-HCU-2651+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2655		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K2/8.4														CRD-HCU-2655+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/2659		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K2/8.4														CRD-HCU-2659+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-121/3003		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L5/8.4														CRD-HCU-3003+
02C12	2	A	1	0 A,F1	M528			C4														
CRD-SV-121/3007		A610		HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						P	528	L5														CRD-HCU-3007+
02C1	2	A	1	0 A,F1	M528																	

EPN / DESCRIPTION	MFG	MODEL	BLDG ELEV	STATUS S E	QID	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS
CONTRACT LEVEL EC USE SAFETY FUNCTION	A/E	DRAWING	A/E ZONE	DETAIL	ZONE	ROOM	ACCURACY	COMPOSITE EPN
CRD-SV-121/3011	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	L5/8.4				CRD-HCU-3011+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3015	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	L5/8.4				CRD-HCU-3015+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3019	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	L5/8.4				CRD-HCU-3019+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3023	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	L5/8.4				CRD-HCU-3023+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3027	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	L5/8.4				CRD-HCU-3027+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3031	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	K.2/3.7				CRD-HCU-3031+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3035	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	K.2/3.7				CRD-HCU-3035+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3039	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	K.2/3.7				CRD-HCU-3039+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3043	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	K.2/3.7				CRD-HCU-3043+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3047	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	K.2/3.7				CRD-HCU-3047+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3051	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	K.2/3.7				CRD-HCU-3051+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3055	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	K.2/3.7				CRD-HCU-3055+
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-121/3059	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID INSERT EXHAUST VALVE			R 528	K.2/3.7				CRD-HCU-3059+
02C12 2 A 1 0 A,B1		M528		C4				

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG / DRAWING	ELEV / ZONE	STATUS / DETAIL	S E / ZONE	QID	TM / ROOM	SEISMIC (S) PARAMETERS: HL TEST ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS: AGING DBE C / COMPOSITE EPN	HOURS
CRD-SV-121/3403		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L.5/3.7							CRD-HCU-3403*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3407		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L.5/3.7							CRD-HCU-3407*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3411		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L.5/3.7							CRD-HCU-3411*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3415		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L.5/3.7							CRD-HCU-3415*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3419		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L.5/3.7							CRD-HCU-3419*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3423		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L.5/3.7							CRD-HCU-3423*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3427		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 L.5/3.7							CRD-HCU-3427*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3431		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K.2/3.7							CRD-HCU-3431*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3435		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K.2/3.7							CRD-HCU-3435*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3439		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K.2/3.7							CRD-HCU-3439*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3443		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K.2/3.7							CRD-HCU-3443*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3447		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K.2/3.7							CRD-HCU-3447*	
02C12	2	A	1 0	A,B1	M528			C4							
CRD-SV-121/3451		A610		HVA1709661A				A	X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528 K.2/3.7							CRD-HCU-3451*	
02C12	2	A	1 0	A,B1	M528			C4							

Contract	EPN	Level	Description	EC	Use	Safety Function	MFG	Model	A/E Drawing	Bldg	Elev	Detail	A/E Zone	Status S E	QID	TM/HL	Zone/Room	Composite EPN	Hours
02C12	CRD-SV-121/3455	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K.2/3.7	C4	A X	324007	N	612	CRD-HCU-3455+	.17
02C12	CRD-SV-121/3459	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K.2/3.7	C4	A X	324007	N	612	CRD-HCU-3459+	.17
02C12	CRD-SV-121/3803	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L.5/3.7	C4	A X	324007	N	612	CRD-HCU-3803+	.17
02C12	CRD-SV-121/3807	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L.5/3.7	C4	A X	324007	N	612	CRD-HCU-3807+	.17
02C12	CRD-SV-121/3811	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L.5/3.7	C4	A X	324007	N	612	CRD-HCU-3811+	.17
02C12	CRD-SV-121/3815	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L.5/3.7	C4	A X	324007	N	612	CRD-HCU-3815+	.17
02C12	CRD-SV-121/3819	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L.5/3.7	C4	A X	324007	N	612	CRD-HCU-3819+	.17
02C12	CRD-SV-121/3823	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L.5/3.7	C4	A X	324007	N	612	CRD-HCU-3823+	.17
02C12	CRD-SV-121/3827	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	L.5/3.7	C4	A X	324007	N	612	CRD-HCU-3827+	.17
02C12	CRD-SV-121/3831	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K.2/3.7	C4	A X	324007	N	612	CRD-HCU-3831+	.17
02C12	CRD-SV-121/3835	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K.2/3.7	C4	A X	324007	N	612	CRD-HCU-3835+	.17
02C12	CRD-SV-121/3839	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K.2/3.7	C4	A X	324007	N	612	CRD-HCU-3839+	.17
02C12	CRD-SV-121/3843	2	.5"SOLENOID INSERT EXHAUST VALVE	A	1 0	A,B1	A610	HVA1709661A	M528	R	528	K.2/3.7	C4	A X	324007	N	612	CRD-HCU-3843+	.17

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG / DRAWING	ELEV / A/E	STATUS S E / DETAIL / ZONE	QID	TM	HL	TEST	ANL	FO	C	ACCURACY	FREQ	AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SV-121/3847					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7														CRD-HCU-3847
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/3851					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7														CRD-HCU-3851
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/3855					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7														CRD-HCU-3855
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/3859					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7														CRD-HCU-3859
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/4203					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7														CRD-HCU-4203
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/4207					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7														CRD-HCU-4207
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/4211					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7														CRD-HCU-4211
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/4215					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7														CRD-HCU-4215
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/4219					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7														CRD-HCU-4219
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/4223					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7														CRD-HCU-4223
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/4227					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7														CRD-HCU-4227
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/4231					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7														CRD-HCU-4231
02C12	2	A	1	0 A.B1	M528			C4														
CRD-SV-121/4235					A610 HVA1709661A			A X	324007		N	612										
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7														CRD-HCU-4235
02C12	2	A	1	0 A.B1	M528			C4														

EPN / DESCRIPTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CONTRACT LEVEL EC USE SAFETY FUNCTION	A/E							
CRD-SV-121/4239	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	K.2/3.7				CRD-HCU-4239*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4243	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	K.2/3.7				CRD-HCU-4243*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4247	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	K.2/3.7				CRD-HCU-4247*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4251	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	K.2/3.7				CRD-HCU-4251*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4255	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	K.2/3.7				CRD-HCU-4255*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4259	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	K.2/3.7				CRD-HCU-4259*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4607	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	L.5/3.7				CRD-HCU-4607*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4611	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	L.5/3.7				CRD-HCU-4611*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4615	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	L.5/3.7				CRD-HCU-4615*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4619	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	L.5/3.7				CRD-HCU-4619*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4623	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	L.5/3.7				CRD-HCU-4623*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4627	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	L.5/3.7				CRD-HCU-4627*	
02C12 2 A 1 0 A,B1	M528		C4					
CRD-SV-121/4631	A610 HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID INSERT EXHAUST VALVE		R 528	K.2/3.7				CRD-HCU-4631*	
02C12 2 A 1 0 A,B1	M528		C4					

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / BLDG ELEV / A/E DRAWING	STATUS / S E / DETAIL / A/E ZONE	QID / ZONE	TH / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CRD-SV-121/4635		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	K.2/3.7					CRD-HCU-4635+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/4639		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	K.2/3.7					CRD-HCU-4639+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/4643		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	K.2/3.7					CRD-HCU-4643+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/4647		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	K.2/3.7					CRD-HCU-4647+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/4651		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	K.2/3.7					CRD-HCU-4651+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/4655		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	K.2/3.7					CRD-HCU-4655+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/5011		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	L.5/3.7					CRD-HCU-5011+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/5015		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	L.5/3.7					CRD-HCU-5015+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/5019		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	L.5/3.7					CRD-HCU-5019+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/5023		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	L.5/3.7					CRD-HCU-5023+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/5027		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	L.5/3.7					CRD-HCU-5027+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/5031		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	K.2/3.7					CRD-HCU-5031+	
02C12	2	A	1	0 A,B1	M528	C4						
CRD-SV-121/5035		A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID INSERT EXHAUST VALVE					R 528	K.2/3.7					CRD-HCU-5035+	
02C12	2	A	1	0 A,B1	M528							

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG / DRAWING	ELEV / A/E	STATUS / DETAIL	S	E	QID / ZONE	TM	HL / ROOM	TEST	ANL	FO	C	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
CRD-SV-121/5039				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7															
02C12	2	A	1	0 A.B1	M528			C4															CRD-HCU-5039.
CRD-SV-121/5043				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7															
02C12	2	A	1	0 A.B1	M528			C4															CRD-HCU-5043.
CRD-SV-121/5047				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7															
02C12	2	A	1	0 A.B1	M528			C4															CRD-HCU-5047.
CRD-SV-121/5051				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7															
02C12	2	A	1	0 A.B1	M528			C4															CRD-HCU-5051.
CRD-SV-121/5415				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7															
02C12	2	A	1	0 A.B1	M528			C4															CRD-HCU-5415.
CRD-SV-121/5419				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7															
02C12	2	A	1	0 A.B1	M528			C4															CRD-HCU-5419.
CRD-SV-121/5423				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7															
02C12	2	A	1	0 A.B1	M528			C4															CRD-HCU-5423.
CRD-SV-121/5427				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	L.5/3.7															
02C12	2	A	1	0 A.P1	M528			C4															CRD-HCU-5427.
CRD-SV-121/5431				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7															
02C12	2	A	1	0 A.B1	M528			C4															CRD-HCU-5431.
CRD-SV-121/5435				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7															
02C12	2	A	1	0 A.B1	M528			C4															CRD-HCU-5435.
CRD-SV-121/5439				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7															
02C12	2	A	1	0 A.P1	M528			C4															CRD-HCU-5439.
CRD-SV-121/5443				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7															
02C12	2	A	1	0 A.P1	M528			C4															CRD-HCU-5443.
CRD-SV-121/5447				A610	HVA1709661A				A	X	324007		N	612									.17
.5"SOLENOID INSERT EXHAUST VALVE						R	528	K.2/3.7															
02C12	2	A	1	0 A.P1	M528			C4															CRD-HCU-5447.

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CRD-SV-121/5819		A610		HVA1709661A	.5"SOLENOID INSERT EXHAUST VALVE		X X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 L.5/3.7 C4					CRD-HCU-5819+	
CRD-SV-121/5823		A610		HVA1709661A	.5"SOLENOID INSERT EXHAUST VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 L.5/3.7 C4					CRD-HCU-5823+	
CRD-SV-121/5827		A610		HVA1709661A	.5"SOLENOID INSERT EXHAUST VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 L.5/3.7 C4					CRD-HCU-5827+	
CRD-SV-121/5831		A610		HVA1709661A	.5"SOLENOID INSERT EXHAUST VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 K.2/3.7 C4					CRD-HCU-5831+	
CRD-SV-121/5835		A610		HVA1709661A	.5"SOLENOID INSERT EXHAUST VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 K.2/3.7 C4					CRD-HCU-5835+	
CRD-SV-121/5839		A610		HVA1709661A	.5"SOLENOID INSERT EXHAUST VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 K.2/3.7 C4					CRD-HCU-5839+	
CRD-SV-121/5843		A610		HVA1709661A	.5"SOLENOID INSERT EXHAUST VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 K.2/3.7 C4					CRD-HCU-5843+	
CRD-SV-122/0219		A610		HVA1709661A	.5"SOLENOID WITHDRAW DRIVE VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 L5/8.4 C4					CRD-HCU-0219+	
CRD-SV-122/0223		A610		HVA1709661A	.5"SOLENOID WITHDRAW DRIVE VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 L5/8.4 C4					CRD-HCU-0223+	
CRD-SV-122/0227		A610		HVA1709661A	.5"SOLENOID WITHDRAW DRIVE VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 L5/8.4 C4					CRD-HCU-0227+	
CRD-SV-122/0231		A610		HVA1709661A	.5"SOLENOID WITHDRAW DRIVE VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	P 528 L5/8.4 C4					CRD-HCU-0231+	
CRD-SV-122/0235		A610		HVA1709661A	.5"SOLENOID WITHDRAW DRIVE VALVE		A X	324007	N 612				.17
02C12	2	A	1	0 A,B1		M528	R 528 K2/8.4 C4					CRD-HCU-0235+	
CRD-SV-122/0239		A610		HVA1709661A	.5"SOLENOID WITHDRAW DRIVE VALVE		A X	324007	N 612				.17
02C1[illegible]	2	A	1	0 A,B1		M528	R 528 K2/					CRD-HCU-0239+	

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USF	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID	TM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FQ C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CRD-SV-122/0243		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K2/8.4					CRD-HCU-0243*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/0615		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L5/8.4					CRD-HCU-0615*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/0619		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L5/8.4					CRD-HCU-0619*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/0623		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L5/8.4					CRD-HCU-0623*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/0627		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L5/8.4					CRD-HCU-0627*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/0631		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L5/8.4					CRD-HCU-0631*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/0635		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K2/8.4					CRD-HCU-0635*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/0639		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K2/8.4					CRD-HCU-0639*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/0643		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K2/8.4					CRD-HCU-0643*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/0647		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K2/8.4					CRD-HCU-0647*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/1011		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L5/8.4					CRD-HCU-1011*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/1015		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L5/8.4					CRD-HCU-1015*	
02C12	2	A	1 0	A,B1	M528	C4						
CRD-SV-122/1019		A610		HVA1709661A		A X	324007	N	612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L5/8.4					CRD-HCU-1019*	
02C12	2	A	1 0	A,B1	M528	C4						

EPN / CONTRACT	LEVEL	EC	USE	MFG / DESCRIPTION / SAFETY FUNCTION	MODEL	BLDG DRAWING	ELEV A/E	STATUS S E DETAIL A/E	QID ZONE	TM ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DDE C COMPOSITE EPN	HOURS
CRD-SV-122/1023	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1023+	.17
CRD-SV-122/1027	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1027+	.17
CRD-SV-122/1031	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1031+	.17
CRD-SV-122/1035	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1035+	.17
CRD-SV-122/1039	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1039+	.17
CRD-SV-122/1043	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1043+	.17
CRD-SV-122/1047	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1047+	.17
CRD-SV-122/1051	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1051+	.17
CRD-SV-122/1407	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1407+	.17
CRD-SV-122/1411	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1411+	.17
CRD-SV-122/1415	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1415+	.17
CRD-SV-122/1419	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1419+	.17
CRD-SV-122/1423	2	A	1 0	A610 .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	HVA1709661A H528	R	528	A X C4	324007	N 612			CRD-HCU-1423+	.17

EPN / DESCRIPTION	MFG	MODEL	STATUS	***SEISMIC (S) PARAMETERS***	*ENV. (E) PARAMETERS*
CONTRACT LEVEL EC USE SAFETY FUNCTION	BLDG ELEV A/E DRAWING	S E DETAIL A/E ZONE	QID ZONE	TM HL TEST ANL FO C ROOM ACCURACY FREQ	AGING DBE C HOURS COMPOSITE EPN
CRD-SV-122/1427	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	L5/8.4			CRD-HCU-1427+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1431	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	L5/8.4			CRD-HCU-1431+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1435	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	K2/8.4			CRD-HCU-1435+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1439	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	K2/8.4			CRD-HCU-1439+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1443	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	K2/8.4			CRD-HCU-1443+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1447	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	K2/8.4			CRD-HCU-1447+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1451	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	K2/8.4			CRD-HCU-1451+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1455	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	K2/8.4			CRD-HCU-1455+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1803	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	L5/8.4			CRD-HCU-1803+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1807	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	L5/8.4			CRD-HCU-1807+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1811	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	L5/8.4			CRD-HCU-1811+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1815	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	L5/8.4			CRD-HCU-1815+
02C12 2 A 1 0 A,B1	M528	C4			
CRD-SV-122/1819	A610	HVA1709661A	A X	324007 N 612	.17
.5"SOLENOID WITHDRAW DRIVE VALVE	R 528	L5/8.4			CRD-HCU-1819+
02C12 2 A 1 0 A,B1	M528	C4			

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG DRAWING	ELEV A/E	STATUS S	E	QID DETAIL	TM ZONE	HL ROOM	TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS COMPOSITE EPN
CRD-SV-122/1823					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1823*
02C12	2	A	1	0 A,B1	M528		L5/8.4											
CRD-SV-122/1827					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1827*
02C12	2	A	1	0 A,B1	M528		L5/8.4											
CRD-SV-122/1831					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1831*
02C12	2	A	1	0 A,B1	M528		L5/8.4											
CRD-SV-122/1835					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1835*
02C12	2	A	1	0 A,B1	M528		K2/8.4											
CRD-SV-122/1839					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1839*
02C12	2	A	1	0 A,B1	M528		K2/8.4											
CRD-SV-122/1843					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1843*
02C12	2	A	1	0 A,B1	M528		K2/8.4											
CRD-SV-122/1847					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1847*
02C12	2	A	1	0 A,B1	M528		K2/8.4											
CRD-SV-122/1851					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1851*
02C12	2	A	1	0 A,B1	M528		K2/8.4											
CRD-SV-122/1855					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1855*
02C12	2	A	1	0 A,B1	M528		K2/8.4											
CRD-SV-122/1859					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-1859*
02C12	2	A	1	0 A,B1	M528		K2/8.4											
CRD-SV-122/2203					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-2203*
02C12	2	A	1	0 A,B1	M528		L5/8.4											
CRD-SV-122/2207					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-2207*
02C12	2	A	1	0 A,B1	M528		L5/8.4											
CRD-SV-122/2211					A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE		R 528	A	X	324007 C4		N	612					.17 CRD-HCU-2211*
02C12	2	A	1	0 A,B1	M528		L5/8.4											

EPN / CONTRACT	LEVEL	EC	USE	MFG / DESCRIPTION / SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E DETAIL / QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-SV-122/2215	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 L5/8.4 C4	N 612		.17 CRD-HCU-2215+
CRD-SV-122/2219	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 L5/8.4 C4	N 612		.17 CRD-HCU-2219+
CRD-SV-122/2223	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 L5/8.4 C4	N 612		.17 CRD-HCU-2223+
CRD-SV-122/2227	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 L5/8.4 C4	N 612		.17 CRD-HCU-2227+
CRD-SV-122/2231	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 L5/8.4 C4	N 612		.17 CRD-HCU-2231+
CRD-SV-122/2235	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 K2/8.4 C4	N 612		.17 CRD-HCU-2235+
CRD-SV-122/2239	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 K2/8.4 C4	N 612		.17 CRD-HCU-2239+
CRD-SV-122/2243	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 K2/8.4 C4	N 612		.17 CRD-HCU-2243+
CRD-SV-122/2247	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 K2/8.4 C4	N 612		.17 CRD-HCU-2247+
CRD-SV-122/2251	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 K2/8.4 C4	N 612		.17 CRD-HCU-2251+
CRD-SV-122/2255	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 K2/8.4 C4	N 612		.17 CRD-HCU-2255+
CRD-SV-122/2259	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,P1	M528	R 528	A X 324007 K2/8.4 C4	N 612		.17 CRD-HCU-2259+
CRD-SV-122/2603	2	A	1 0	A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE A,B1	M528	R 528	A X 324007 L5/8.4 C4	N 612		.17 CRD-HCU-2603+

EPN / CONTRACT	LEVEL	EC	USE	MFG / DESCRIPTION / SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG	ELEV	STATUS S	E	DETAIL / A/E ZONE	QID / ZONE	TM	HL	TEST ANL FO C / ROOM	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-122/2607				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	L5/8.4 C4	324007	N		612					.17 CRD-HCU-2607+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2611				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	L5/8.4 C4	324007	N		612					.17 CRD-HCU-2611+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2615				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	L5/8.4 C4	324007	N		612					.17 CRD-HCU-2615+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2619				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	L5/8.4 C4	324007	N		612					.17 CRD-HCU-2619+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2623				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	L5/8.4 C4	324007	N		612					.17 CRD-HCU-2623+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2627				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	L5/8.4 C4	324007	N		612					.17 CRD-HCU-2627+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2631				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	L5/8.4 C4	324007	N		612					.17 CRD-HCU-2631+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2635				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	K2/8.4 C4	324007	N		612					.17 CRD-HCU-2635+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2639				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	K2/8.4 C4	324007	N		612					.17 CRD-HCU-2639+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2643				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	K2/8.4 C4	324007	N		612					.17 CRD-HCU-2643+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2647				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	K2/8.4 C4	324007	N		612					.17 CRD-HCU-2647+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2651				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	K2/8.4 C4	324007	N		612					.17 CRD-HCU-2651+
02C12	2	A	1 0	A,B1	M528														
CRD-SV-122/2655				A610 .5"SOLENOID WITHDRAW DRIVE VALVE	HVA1709661A	R	528	A	X	K2/8.4 C4	324007	N		612					.17 CRD-HCU-2655+
02C12	2	A	1 0	A,B1	M528														

EPN / DESCRIPTION / CONTRACT	LEVEL	MFG / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG ELEV / DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST ROOM	ANL	FO	C	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-122/2659 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 K2/8.4 C4		A	X	324007		N 612								.17 CRD-HCU-2659+
CRD-SV-122/3003 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 L5/8.4 C4		A	X	324007		N 612								.17 CRD-HCU-3003+
CRD-SV-122/3007 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 L5/8.4 C4		A	X	324007		N 612								.17 CRD-HCU-3007+
CRD-SV-122/3011 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 L5/8.4 C4		A	X	324007		N 612								.17 CRD-HCU-3011+
CRD-SV-122/3015 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 L5/8.4 C4		A	X	324007		N 612								.17 CRD-HCU-3015+
CRD-SV-122/3019 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 L5/8.4 C4		A	X	324007		N 612								.17 CRD-HCU-3019+
CRD-SV-122/3023 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 L5/8.4 C4		A	X	324007		N 612								.17 CRD-HCU-3023+
CRD-SV-122/3027 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 L5/8.4 C4		A	X	324007		N 612								.17 CRD-HCU-3027+
CRD-SV-122/3031 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 K.2/3.7 C4		A	X	324007		N 612								.17 CRD-HCU-3031+
CRD-SV-122/3035 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 K.2/3.7 C4		A	X	324007		N 612								.17 CRD-HCU-3035+
CRD-SV-122/3039 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 K.2/3.7 C4		A	X	324007		N 612								.17 CRD-HCU-3039+
CRD-SV-122/3043 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 K.2/3.7 C4		A	X	324007		N 612								.17 CRD-HCU-3043+
CRD-SV-122/3047 .5"SOLENOID WITHDRAW DRIVE VALVE 02C12	2	A610 A	1 0	A,B1	HVA1709661A M528	R 528 K.2/3.7 C4		A	X	324007		N 612								.17 CRD-HCU-3047+

EPN / CONTRACT	LEVEL	EC	USE	MFG / SAFETY FUNCTION	MODEL / DESCRIPTION	BLDG	ELEV	DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TM / ROOM	HL	TEST	ANL	FO	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-122/3051				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	K.2/3.7															CRD-HCU-3051+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3055				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	K.2/3.7															CRD-HCU-3055+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3059				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	K.2/3.7															CRD-HCU-3059+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3403				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	L.5/3.7															CRD-HCU-3403+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3407				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	L.5/3.7															CRD-HCU-3407+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3411				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	L.5/3.7															CRD-HCU-3411+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3415				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	L.5/3.7															CRD-HCU-3415+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3419				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	L.5/3.7															CRD-HCU-3419+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3423				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	L.5/3.7															CRD-HCU-3423+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3427				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	L.5/3.7															CRD-HCU-3427+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3431				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	K.2/3.7															CRD-HCU-3431+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3435				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	K.2/3.7															CRD-HCU-3435+
02C12	2	A	1	0 A,B1	M528			C4															
CRD-SV-122/3439				A610	HVA1709661A					A	X	324007	N	612									.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R	528	K.2/3.7															CRD-HCU-3439+
02C12	2	A	1	0 A,B1	M528			C4															

EPN / CONTRACT	LEVEL	EC	USE	MFG / DESCRIPTION / SAFETY FUNCTION	MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL A/E	QID / ZONE	TM / ROOM	SEISMIC (S) PARAMETERS HL TEST ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING DBE C HOURS / COMPOSITE EPN	
CRD-SV-122/3443				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-3443+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3447				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-3447+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3451				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-3451+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3455				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-3455+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3459				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-3459+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3803				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-3803+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3807				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-3807+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3811				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-3811+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3815				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-3815+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3819				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-3819+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3823				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-3823+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3827				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-3827+	
02C12	2	A	1 0	A.B1	M528		C4						
CRD-SV-122/3831				A610 HVA1709661A			A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-3831+	
02C12	2	A	1 0	A.B1	M528		C4						

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	MODEL / SAFETY FUNCTION	STATUS / BLDG ELEV / A/E DRAWING	S	E	QID / DETAIL / ZONE	TM	HL	TEST	ANL	FQ	C	ROOM	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-122/3835		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K.2/3.7														CRD-HCU-3835+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/3839		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K.2/3.7														CRD-HCU-3839+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/3843		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K.2/3.7														CRD-HCU-3843+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/3847		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K.2/3.7														CRD-HCU-3847+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/3851		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K.2/3.7														CRD-HCU-3851+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/3855		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K.2/3.7														CRD-HCU-3855+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/3859		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	K.2/3.7														CRD-HCU-3859+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/4203		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L.5/3.7														CRD-HCU-4203+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/4207		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L.5/3.7														CRD-HCU-4207+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/4211		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L.5/3.7														CRD-HCU-4211+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/4215		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L.5/3.7														CRD-HCU-4215+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/4219		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L.5/3.7														CRD-HCU-4219+
02C12	2	A	1 0	A.B1	M528			C4												
CRD-SV-122/4223		A610		HVA1709661A		A	X	324007		N					612					.17
.5"SOLENOID WITHDRAW DRIVE VALVE					R 528	L.5/3.7														CRD-HCU-4223+
02C12	2	A	1 0	A.B1	M528			C4												

EPN / CONTRACT	LEVEL	EC	USE	MFG / DESCRIPTION / SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG ELEV / DETAIL / ZONE	STATUS S E / QID / TM / HL TEST ANL FO C / ROOM / ACCURACY	***SEISMIC (S) PARAMETERS*** FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-SV-122/4227				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 L.5/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4227*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4231				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 K.2/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4231*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4235				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 K.2/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4235*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4239				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 K.2/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4239*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4243				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 K.2/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4243*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4247				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 K.2/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4247*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4251				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 K.2/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4251*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4255				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 K.2/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4255*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4259				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 K.2/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4259*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4607				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 L.5/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4607*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4611				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 L.5/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4611*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4615				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 L.5/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4615*
02C12	2	A	1 0	A,B1					
CRD-SV-122/4619				A610 HVA1709661A .5"SOLENOID WITHDRAW DRIVE VALVE	M528	R 528 L.5/3.7 C4	A X 324007 N 612		.17 CRD-HCU-4619*
02C12	2	A	1 0	A,B1					

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TH / ROOM	SEISMIC (S) PARAMETERS HL TEST ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING DBE C / COMPOSITE EPN	HOURS
CRD-SV-122/4623			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-4623+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/4627			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-4627+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/4631			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-4631+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/4635			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-4635+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/4639			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-4639+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/4643			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-4643+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/4647			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-4647+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/4651			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-4651+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/4655			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-4655+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/5011			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-5011+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/5015			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-5015+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/5019			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-5019+	
02C12	2	A	1 0	A,B1		M528	C4						
CRD-SV-122/5023			A610		HVA1709661A		A X	324007	N 612				.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-5023+	
02C12	2	A	1 0	A,B1		M528	C4						

EPN / DESCRIPTION	MFG	MODEL	BLDG ELEV DRAWING	STATUS S E DETAIL	QID TM ZONE	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CONTRACT LEVEL EC USE SAFETY FUNCTION			A/E	A/E ZONE				
CRD-SV-122/5027	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	L.5/3.7				CRD-HCU-5027*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5031	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	K.2/3.7				CRD-HCU-5031*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5035	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	K.2/3.7				CRD-HCU-5035*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5039	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	K.2/3.7				CRD-HCU-5039*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5043	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	K.2/3.7				CRD-HCU-5043*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5047	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	K.2/3.7				CRD-HCU-5047*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5051	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	K.2/3.7				CRD-HCU-5051*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5415	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	L.5/3.7				CRD-HCU-5415*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5419	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	L.5/3.7				CRD-HCU-5419*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5423	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	L.5/3.7				CRD-HCU-5423*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5427	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	L.5/3.7				CRD-HCU-5427*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5431	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	K.2/3.7				CRD-HCU-5431*
02C12 2 A 1 0 A,B1		M528		C4				
CRD-SV-122/5435	A610	HVA1709661A		A X	324007	N 612		.17
.5"SOLENOID WITHDRAW DRIVE VALVE			R 528	K.2/3.7				CRD-HCU-5435*
02C12 2 A 1 0 A,B1		M528		C4				

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-SV-122/5439			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-5439*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-122/5443			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-5443*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-122/5447			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-5447*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-122/5819			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-5819*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-122/5823			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-5823*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-122/5827			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	L.5/3.7					CRD-HCU-5827*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-122/5831			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-5831*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-122/5835			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-5835*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-122/5839			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-5839*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-122/5843			A610		HVA1709661A		A X	324007	N 612			.17
.5"SOLENOID WITHDRAW DRIVE VALVE						R 528	K.2/3.7					CRD-HCU-5843*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-123/0219			A610		HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	L5/8.4					CRD-HCU-0219*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-123/0223			A610		HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	L5/8.4					CRD-HCU-0223*
02C12	2	A	1 0	A,B1	M528		C4					
CRD-SV-123/0227			A610		HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	L5/8.4					CRD-HCU-0227*
02C12	2	A	1 0	A,B1	M528		C4					

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-SV-123/0231 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	L5/8.4 C4						CRD-HCU-0231*
CRD-SV-123/0235 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	K2/8.4 C4						CRD-HCU-0235*
CRD-SV-123/0239 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	K2/8.4 C4						CRD-HCU-0239*
CRD-SV-123/0243 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	K2/8.4 C4						CRD-HCU-0243*
CRD-SV-123/0615 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	L5/8.4 C4						CRD-HCU-0615*
CRD-SV-123/0619 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	L5/8.4 C4						CRD-HCU-0619*
CRD-SV-123/0623 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	L5/8.4 C4						CRD-HCU-0623*
CRD-SV-123/0627 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	L5/8.4 C4						CRD-HCU-0627*
CRD-SV-123/0631 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	L5/8.4 C4						CRD-HCU-0631*
CRD-SV-123/0635 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	K2/8.4 C4						CRD-HCU-0635*
CRD-SV-123/0639 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	K2/8.4 C4						CRD-HCU-0639*
CRD-SV-123/0643 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	K2/8.4 C4						CRD-HCU-0643*
CRD-SV-123/0647 .5"SOLENOID INSERT DRIVE VALVE			A610		HVA1709662A	R 527	A X	324007	N 612			.17
02C12	2	A	1 0	A,B1	M528	K2/8.4 C4						CRD-HCU-0647*

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV / DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TM / ROOM	HL	TEST	ANL	FO	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-123/1011		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1011+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1015		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1015+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1019		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1019+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1023		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1023+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1027		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1027+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1031		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1031+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1035		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1035+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1039		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1039+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1043		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1043+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1047		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1047+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1051		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1051+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1407		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1407+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1411		A610		HVA1709662A				A	X		324007	N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1411+
	2	A	1	0 A,B1	M528			C4														

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV / DRAWING	STATUS S	E	DETAIL / A/E	QID / ZONE	TM	HL	TEST / ROOM	ANL	FO	C / ACCURACY	FREQ	*ENV. AGING	(E) PARAMETERS* DBE	C	HOURS / COMPOSITE EPN
CRD-SV-123/1415		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1415+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1419		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1419+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1423		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1423+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1427		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1427+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1431		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1431+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1435		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1435+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1439		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1439+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1443		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CPD-HCU-1443+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1447		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1447+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1451		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1451+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1455		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-1455+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1803		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1803+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/1807		A610		HVA1709662A				A	X		324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-1807+
02C12	2	A	1	0 A,B1	M528			C4														

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E	BLDG ELEV / DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TH	HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-123/1811		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1811+
CRD-SV-123/1815		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1815+
CRD-SV-123/1819		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1819+
CRD-SV-123/1823		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1823+
CRD-SV-123/1827		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1827+
CRD-SV-123/1831		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1831+
CRD-SV-123/1835		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1835+
CRD-SV-123/1839		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1839+
CRD-SV-123/1843		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1843+
CRD-SV-123/1847		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1847+
CRD-SV-123/1851		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1851+
CRD-SV-123/1855		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1855+
CRD-SV-123/1859		A610		HVA1709662A			A	X		324007		N 612					.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4											
02C12	2	A	1	0 A,B1	M528		C4										CRD-HCU-1859+

EPN / DESCRIPTION / CONTRACT	LEVEL	MFG EC	USE	SAFETY FUNCTION	MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E	QID ZONE	TH ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FQ C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CRD-SV-123/2203 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A L5/8.4 C4	X 324007	N 612			.17 CRD-HCU-2203*
CRD-SV-123/2207 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A L5/8.4 C4	X 324007	N 612			.17 CRD-HCU-2207*
CRD-SV-123/2211 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A L5/8.4 C4	X 324007	N 612			.17 CRD-HCU-2211*
CRD-SV-123/2215 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A L5/8.4 C4	X 324007	N 612			.17 CRD-HCU-2215*
CRD-SV-123/2219 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A L5/8.4 C4	X 324007	N 612			.17 CRD-HCU-2219*
CRD-SV-123/2223 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A L5/8.4 C4	X 324007	N 612			.17 CRD-HCU-2223*
CRD-SV-123/2227 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A L5/8.4 C4	X 324007	N 612			.17 CRD-HCU-2227*
CRD-SV-123/2231 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A L5/8.4 C4	X 324007	N 612			.17 CRD-HCU-2231*
CRD-SV-123/2235 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A K2/8.4 C4	X 324007	N 612			.17 CRD-HCU-2235*
CRD-SV-123/2239 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A K2/8.4 C4	X 324007	N 612			.17 CRD-HCU-2239*
CRD-SV-123/2243 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A K2/8.4 C4	X 324007	N 612			.17 CRD-HCU-2243*
CRD-SV-123/2247 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A K2/8.4 C4	X 324007	N 612			.17 CRD-HCU-2247*
CRD-SV-123/2251 .5"SOLENOID INSERT DRIVE VALVE 02C12	2	A610 A	1 0	HVA1709662A A,B1	M528	R 527	A K2/8.4 C4	X 324007	N 612			.17 CRD-HCU-2251*

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG	ELEV / DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TM	HL	TEST	ANL	FO	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-123/2255		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-2255+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2259		A610		HVA1709662A				A	X	324007												.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-2259+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2603		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.1														CRD-HCU-2603+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2607		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-2607+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2611		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-2611+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2615		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-2615+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2619		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-2619+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2623		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-2623+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2627		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-2627+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2631		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L5/8.4														CRD-HCU-2631+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2635		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-2635+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2639		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-2639+
02C12	2	A	1	0 A,B1	M528			C4														
CRD-SV-123/2643		A610		HVA1709662A				A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K2/8.4														CRD-HCU-2643+
02C12	2	A	1	0 A,B1	M528			C4														

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TM / ROOM	SEISMIC (S) PARAMETERS HL TEST ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING DBE C / COMPOSITE EPN	HOURS
CRD-SV-123/2647		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4						CRD-HCU-2647+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/2651		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4						CRD-HCU-2651+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/2655		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4						CRD-HCU-2655+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/2659		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K2/8.4						CRD-HCU-2659+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/3003		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4						CRD-HCU-3003+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/3007		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4						CRD-HCU-3007+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/3011		A610			HVA1709662A		A X	324007	N 612				4320
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4						CRD-HCU-3011+	
02C12	2	P	2 0	A+B1	M528	C4							
CRD-SV-123/3015		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4						CRD-HCU-3015+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/3019		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4						CRD-HCU-3019+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/3023		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4						CRD-HCU-3023+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/3027		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L5/8.4						CRD-HCU-3027+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/3031		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7						CRD-HCU-3031+	
02C12	2	A	1 0	A+B1	M528	C4							
CRD-SV-123/3035		A610			HVA1709662A		A X	324007	N 612				.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7						CRD-HCU-3035+	
02C12	2	A	1 0	A+B1	M528	C4							

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC / USE / SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E DETAIL	QID ZONE	TM ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
CRD-SV-123/3039		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 K.2/3.7						CRD-HCU-3039+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3043		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 K.2/3.7						CRD-HCU-3043+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3047		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 K.2/3.7						CRD-HCU-3047+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3051		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 K.2/3.7						CRD-HCU-3051+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3055		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 K.2/3.7						CRD-HCU-3055+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3059		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 K.2/3.7						CRD-HCU-3059+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3403		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 L.5/3.7						CRD-HCU-3403+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3407		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 L.5/3.7						CRD-HCU-3407+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3411		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 L.5/3.7						CRD-HCU-3411+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3415		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 L.5/3.7						CRD-HCU-3415+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3419		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 L.5/3.7						CRD-HCU-3419+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3423		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 L.5/3.7						CRD-HCU-3423+
02C12	2	A 1 0 A,B1	M528	C4						
CRD-SV-123/3427		A610	HVA1709662A		A X	324007	N 612			.17
.5"SOLENOID INSERT DRIVE VALVE				R 527 L.5/3.7						CRD-HCU-3427+
02C12	2	A 1 0 A,B1	M528	C4						

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL	QID / ZONE	TM	HL	TEST	ANL	FO	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-123/3431		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 K.2/3.7												CRD-HCU-3431+
02C12	2	A	1	0 A+B1	M528		C4												
CRD-SV-123/3435		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 K.2/3.7												CRD-HCU-3435+
02C12	2	A	1	0 A+B1	M528		C4												
CRD-SV-123/3439		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 K.2/3.7												CRD-HCU-3439+
02C12	2	A	1	0 A+B1	M528		C4												
CRD-SV-123/3443		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 K.2/3.7												CRD-HCU-3443+
02C12	2	A	1	0 A+B1	M528		C4												
CRD-SV-123/3447		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 K.2/3.7												CRD-HCU-3447+
02C12	2	A	1	0 A+B1	M528		C4												
CRD-SV-123/3451		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 K.2/3.7												CRD-HCU-3451+
02C12	2	A	1	0 A+B1	M528		C4												
CRD-SV-123/3455		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 K.2/3.7												CRD-HCU-3455+
02C12	2	A	1	0 A+P1	M528		C4												
CRD-SV-123/3459		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 K.2/3.7												CRD-HCU-3459+
02C12	2	A	1	0 A+P1	M528		C4												
CRD-SV-123/3803		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 L.5/3.7												CRD-HCU-3803+
02C12	2	A	1	0 A+P1	M528		C4												
CRD-SV-123/3807		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 L.5/3.7												CRD-HCU-3807+
02C12	2	A	1	0 A+P1	M528		C4												
CRD-SV-123/3811		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 L.5/3.7												CRD-HCU-3811+
02C12	2	A	1	0 A+P1	M528		C4												
CRD-SV-123/3815		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 L.5/3.7												CRD-HCU-3815+
02C12	2	A	1	0 A+P1	M528		C4												
CRD-SV-123/3819		A610		HVA1709662A			A	X 324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527 L.5/3.7												CRD-HCU-3819+
02C12	2	A	1	0 A+P1	M528		C4												

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION	EC	USE	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG ELEV	STATUS DETAIL / A/E ZONE	S	E	QID / ZONE	TM / ROOM	HL	TEST	ANL	FO	C	FREQ / ACCURACY	AGING	OBE	C	HOURS / COMPOSITE EPN
CRD-SV-123/3823		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 L.5/3.7														CRD-HCU-3823+
02C12	2	A	1	0	A,B1	M528		C4														
CRD-SV-123/3827		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 L.5/3.7														CRD-HCU-3827+
02C12	2	A	1	0	A,D1	M528		C4														
CRD-SV-123/3831		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 K.2/3.7														CRD-HCU-3831+
02C12	2	A	1	0	A,B1	M528		C4														
CRD-SV-123/3835		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 K.2/3.7														CRD-HCU-3835+
02C12	2	A	1	0	A,D1	M528		C4														
CRD-SV-123/3839		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 K.2/3.7														CRD-HCU-3839+
02C12	2	A	1	0	A,B1	M528		C4														
CRD-SV-123/3843		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 K.2/3.7														CRD-HCU-3843+
02C12	2	A	1	0	A,B1	M528		C4														
CRD-SV-123/3847		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 K.2/3.7														CRD-HCU-3847+
02C12	2	A	1	0	A,B1	M528		C4														
CRD-SV-123/3851		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 K.2/3.7														CRD-HCU-3851+
02C12	2	A	1	0	A,B1	M528		C4														
CRD-SV-123/3855		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 K.2/3.7														CRD-HCU-3855+
02C12	2	A	1	0	A,B1	M528		C4														
CRD-SV-123/3859		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 K.2/3.7														CRD-HCU-3859+
02C12	2	A	1	0	A,F1	M528		C4														
CRD-SV-123/4203		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 L.5/3.7														CRD-HCU-4203+
02C12	2	A	1	0	A,F1	M528		C4														
CRD-SV-123/4207		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 L.5/3.7														CRD-HCU-4207+
02C12	2	A	1	0	A,F1	M528		C4														
CRD-SV-123/4211		A610			HVA1709662A			A	X	324007		N	612									.17
.5"SOLENOID INSERT DRIVE VALVE							R	527 L.5/3.7														CRD-HCU-4211+
02C12	2	A	1	0	A,F1	M528		C4														

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG ELEV / DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TM / HL / ROOM	SEISMIC (S) PARAMETERS: TEST / ANL / FO / C / FREQ / ACCURACY	ENV. (E) PARAMETERS: AGING / DBE / C / HOURS / COMPOSITE EPN
CRD-SV-123/4215		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L.5/3.7							CRD-HCU-4215+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4219		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L.5/3.7							CRD-HCU-4219+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4223		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L.5/3.7							CRD-HCU-4223+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4227		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L.5/3.7							CRD-HCU-4227+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4231		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7							CRD-HCU-4231+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4235		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7							CRD-HCU-4235+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4239		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7							CRD-HCU-4239+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4243		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7							CRD-HCU-4243+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4247		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7							CRD-HCU-4247+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4251		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7							CRD-HCU-4251+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4255		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7							CRD-HCU-4255+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4259		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 K.2/3.7							CRD-HCU-4259+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4607		A610			HVA1709662A		A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527 L.5/3.7							CRD-HCU-4607+
02C12	2	A	1	0 A,B1	M528		C4						

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG ELEV / DRAWING	STATUS / DETAIL	S E	QID / ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CRD-SV-123/4611		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	L.5/3.7						CRD-HCU-4611+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4615		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	L.5/3.7						CRD-HCU-4615+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4619		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	L.5/3.7						CRD-HCU-4619+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4623		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	L.5/3.7						CRD-HCU-4623+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4627		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	L.5/3.7						CRD-HCU-4627+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4631		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	K.2/3.7						CRD-HCU-4631+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4635		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	K.2/3.7						CRD-HCU-4635+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4639		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	K.2/3.7						CRD-HCU-4639+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4643		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	K.2/3.7						CRD-HCU-4643+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4647		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	K.2/3.7						CRD-HCU-4647+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4651		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	K.2/3.7						CRD-HCU-4651+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/4655		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	K.2/3.7						CRD-HCU-4655+
02C12	2	A	1	0 A,B1	M528		C4						
CRD-SV-123/5011		A610		HVA1709662A			A	X	324007	N	612		.17
.5"SOLENOID INSERT DRIVE VALVE						R 527	L.5/3.7						CRD-HCU-5011+
02C12	2	A	1	0 A,B1	M528		C4						

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG / A/E DRAWING	ELEV / A/E ZONE	STATUS S / DETAIL	E	QID / ZONE	TM	HL / ROOM	TEST	ANL	FO	C / ACCURACY	FREQ	AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-123/5015					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													CRD-HCU-5015+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5019					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													CRD-HCU-5019+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5023					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													CRD-HCU-5023+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5027					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													CRD-HCU-5027+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5031					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													CRD-HCU-5031+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5035					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													CRD-HCU-5035+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5039					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													CRD-HCU-5039+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5043					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													CRD-HCU-5043+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5047					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													CRD-HCU-5047+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5051					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													CRD-HCU-5051+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5415					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													CRD-HCU-5415+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5419					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													CRD-HCU-5419+
02C12	2	A	1	0 A,B1	M528			C4													
CRD-SV-123/5423					A610 HVA1709662A			A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													CRD-HCU-5423+
02C12	2	A	1	0 A,B1	M528			C4													

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG	ELEV	STATUS S / DETAIL	E / A/E ZONE	QID / ZONE	TH	HL / ROOM	TEST	ANL	FO	C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS / COMPOSITE EPN
CRD-SV-123/5427		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5427+			
CRD-SV-123/5431		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5431+			
CRD-SV-123/5435		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5435+			
CRD-SV-123/5439		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5439+			
CRD-SV-123/5443		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5443+			
CRD-SV-123/5447		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5447+			
CRD-SV-123/5819		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5819+			
CRD-SV-123/5823		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5823+			
CRD-SV-123/5827		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	L.5/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5827+			
CRD-SV-123/5831		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5831+			
CRD-SV-123/5835		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5835+			
CRD-SV-123/5839		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5839+			
CRD-SV-123/5843		A610		HVA1709662A				A	X	324007		N	612								.17
.5"SOLENOID INSERT DRIVE VALVE						R	527	K.2/3.7													
02C12	2	A	1 0	A,B1	M528				C4									CRD-HCU-5843+			

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV. / DRAWING	STATUS / DETAIL	S E	QID / ZONE	TM	HL	TEST	ANL	FQ	C	FREQ / ACCURACY	AGING	DBE	C	HOURS / COMPOSITE EPN
CSP-DPT-4			R369	1153DB3				X	X 156009								06153	02	E	4320
SUPP CHMBR ATMOS DIFF PRESS						R 501 L42/9.3											E-IR-63+			
220	3	A	1 3	B1	M543		C14													
CSP-DPT-5			R369	1153DB3				X	X 156009								06153	02	E	4320
SUPP CHMBR ATMOS DIFF PRESS						R 501 N.1/4.8											E-IR-64+			
220	3	A	1 3	B1	M543		C6													
CSP-DPT-6			R369	1153DB3				X	X 156009								06153	02	E	4320
SUPP CHMBR ATMOS DIFF PRESS						R 501 N.1/4.8											E-IR-64+			
220	3	A	1 3	B1	M543		C6													
CSP-POS-V/1			N007	EA740				A	X 200015											4320
POS FOR CSP-V-1						R 508 M.5/7.5											CSP-V-1+			
58	2	A	1 3	I	M543		D5													
CSP-POS-V/10/P1			A415	4-3869-002				X	X 248002								06153	00	E	4320
POS FOR CSP-V-10						R 491 M.5/5.1											CSP-V-10+			
58	2	A	1 3	I	E519/11		E3													
CSP-POS-V/10/P2			A415	4-3869-002				X	X 248002								06153	00	E	4320
POS FOR CSP-V-10						R 491 M.9/5.1											CSP-V-10+			
58	2	A	1 3	I	E519/11		E3													
CSP-POS-V/10/P3			A415	4-3869-002				X	X 248002								06153	00	E	4320
POS FOR CSP-V-10						R 491 M.9/5.1											CSP-V-10+			
	2	A	1 3	I	E519/11		E3													
CSP-POS-V/10/P4			A415	4-3869-002				X	X 248002								06153	00	E	4320
POS FOR CSP-V-10						R 491 M.9/5.1											CSP-V-10+			
3	2	A	1 3	I	E519/11		E3													
CSP-POS-V/10/P9			A415	4-3869-002				X	X 248002								06153	00	E	4320
POS FOR CSP-V-10						R 491 M.9/5.1											CSP-V-10+			
	2	A	1 3	I	E519/11		E3													
CSP-POS-V/2			N007	EA740				A	X 200015											4320
POS FOR CSP-V-2						R 508 M.5/7.4											CSP-V-2+			
58	2	A	1 3	I	M543		D6													
CSP-POS-V/3			N015	EA740-80100				A	X 200015											4320
POS FOR CSP-V-3						R 483 M.6/7.6											CSP-V-3+			
58	2	A	1 3	I	M543		D5													
CSP-POS-V/4			N015	EA740-80100				A	X 200015											4320
POS FOR CSP-V-4						R 478 M.6/7.6											CSP-V-4+			
58	2	A	1 3	I	M543		C5													
CSP-POS-V/5			N015	EA740-80100				A	X 200015	N	14	00				35				4320
POS FOR CSP-V-5						R 477 M.7/7.6			R43								CSP-V-5+			
58	2	A	1 3	I	M543		C5													

EPN / CONTRACT	LEVEL	EC	USE	MFG / MODEL / SAFETY FUNCTION	BLDG ELEV / DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / ROOM	HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE	C	HOURS
CSP-POS-V/6			N015	EA740-80100		N X	200015	N	14 00	35				4320
POS FOR CSP-V-6					R 488	H.6/6.1	R43				CSP-V-6+			
58	2	A	1 3 I		M543	B14								
CSP-POS-V/7/P1			A415	4-3869-002		X X	248002				06153	00	E	4320
POS FOR CSP-V-7					R 475	N.5/7.7					CSP-V-7+			
	2	A	1 3 I		E519/11	E3								
CSP-POS-V/7/P2			A415	04-3869-002		X X	248002				06153	00	E	4320
POS FOR CSP-V-7					R 475	N.5/7.7					CSP-V-7+			
	2	A	1 3 I		E519/11	E3								
CSP-POS-V/7/P3			A415	04-3869-002		X X	248002				06153	00	E	4320
POS FOR CSP-V-7					R 475	N.5/7.7					CSP-V-7+			
	2	A	1 3 I		E519/11	E3								
CSP-POS-V/7/P4			A415	04-3869-002		X X	248002				06153	00	E	4320
POS FOR CSP-V-7					R 475	N.5/7.7					CSP-V-7+			
	2	A	1 3 I		E519/11	E3								
CSP-POS-V/7/P9			A415	04-3869-002		X X	248002				06153	00	E	4320
POS FOR CSP-V-7					R 475	N.5/7.7					CSP-V-7+			
	2	A	1 3 I		E519/11	E3								
CSP-POS-V/8/P1			A415	04-3869-002		X X	248002				06153	00	E	4320
POS FOR CSP-V-8					R 491	H.6/6.0					CSP-V-8+			
	2	A	1 3 I		E519/11	E3								
CSP-POS-V/8/P2			A415	04-3869-002		X X	248002				06153	00	E	4320
POS FOR CSP-V-8					R 491	H.6/6.0					CSP-V-8+			
	2	A	1 3 I		E519/11	E3								
CSP-POS-V/8/P3			A415	04-3869-001		X X	248002				06153	00	E	4320
POS FOR CSP-V-8					R 491	H.6/6.0					CSP-V-8+			
	2	A	1 3 I		E519/11	E3								
CSP-POS-V/8/P4			A415	04-3869-001		X X	248002				06153	00	E	4320
POS FOR CSP-V-8					R 491	H.6/6.0					CSP-V-8+			
	2	A	1 3 I		E519/11	F3								
CSP-POS-V/8/P9			A415	04-3869-001		X X	248002				06153	00	E	4320
POS FOR CSP-V-8					R 491	H.6/6.0					CSP-V-8+			
	2	A	1 3 I		E519/11	L3								
CSP-POS-V/9			N015	D2400X		C X	200009							4320
POS FOR CSP-V-9					R 490	H.9/5.1	R43				CSP-V-9+			
58	2	A	1 3 I		M543	D6								
CSP-RLY-ARCSPV5			A500	RXMK1		X	288015							4320
CONTROL RELAY FOR CSP-V-5					R 501	N.0/4.8					E-IR-64+			
58	3	A	1 3 B1		C519/18	K4								

EPN / DESCRIPTION / CONTRACT / LEVEL / EC / USE / SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TH / HL / TEST ROOM / ANL / ACCURACY / FO / C / FREQ	*ENV. (E) PARAMETERS* AGING / DBE / C / HOURS COMPOSITE EPN
CSP-RLY-ARCSPV6 CONTROL RELAY FOR CSP-V-6 58 3 A 1 3 B1	A500 RXMK1	R E519/18	X 501,L.4/9.4 K4	288015		4320 E-IR-63+
CSP-RLY-ARCSPV9 CONTROL RELAY FOR CSP-V-9 58 3 A 1 3 B1	A500 RXMK1	R E519/18	X 501 N.0/4.8 K4	288015		4320 E-IR-64+
CSP-RLY-CR4 CONTROL RELAY FOR CSP-V-6 58 3 A 1 3 B1	S440 219XBXP	R E519/18	X 501 L.4/9.4 K4	283041		4320 E-IR-63+
CSP-RLY-CR5 CONTROL RELAY FOR CSP-V-5 58 3 A 1 3 B1	S440 219XBXP	R E519/18	X 501 N.0/4.8 K4	283041		4320 E-IR-64+
CSP-RLY-CR6 CONTROL RELAY FOR CSP-V-9 58 3 A 1 3 B1	S440 219XBXP	R E519/18	X 501 N.0/4.8 K4	283041		4320 E-IR-64+
CSP-SPV-1 SOLENOID PILOT FOR CSP-V-1 IR-66 58 2 A 1 3 B1,F	A499 WJHT8316A76	R M543	X X 505 N.7/5.5 D5	315004 R N 114 03 R43 R305	33+	4320 E-IR-66+
CSP-SPV-10A SOLENOID PILOT (CLOSE) CSP-V-10 58 2 A 1 3 B1,F	A610 WJHT8316A76	R M543	X X 471 N.0/4.0 B6	315004 R N 114 03 R33 R206	33+	4320 E-IR-65+
CSP-SPV-10B SOLENOID PILOT (OPEN) CSP-V-10 58 2 A 1 3 B1,F	A610 WJHT8316A76	R M543	X X 471 N.0/4.0 B6	315004 R N 114 03 R33 R206	33+	4320 E-IR-65+
CSP-SPV-2 SOLENOID PILOT FOR CSP-V-2 IR-63 58 2 A 1 3 B1,F	A499 WJHT831654	R M543	X X 507 L.4/9.3 D6	315004 R N 114 03 R43 R305	33+	4320 E-IR-63+
CSP-SPV-3 SOLENOID PILOT FOR CSP-V-3 IR-65 58 2 A 1 3 B1,F	A499 WJHT8316A76	R M543	X X 476 N.0/3.9 D5	315004 R N 114 03 R33 R206	33+	4320 E-IR-65+
CSP-SPV-4 SOLENOID PILOT FOR CSP-V-4 - IR-64 58 2 A 1 3 B1,F	A499 WJHT8316A74	R M543	X X 505 N.0/4.9 C4	315004 R N 114 03 R43 R305	33+	4320 E-IR-64+
CSP-SPV-5 SOLENOID PILOT FOR CSP-V-5 IR-64 58 2 A 1 3 B1,F	A499 WJHT8316A74	R M543	X X 505 N.0/4.8 C5	315004 P N 114 03 R43 R309	33+	4320 E-IR-64+
CSP-SPV-6 SOLENOID PILOT FOR CSP-V-6 IR-63 58 2 A 1 3 B1,F	A499 WJHT8316A54	R M543	X X 501 L.4/9.3 D14	315004 P N 114 03 R43 R305	33+	4320 E-IR-63+

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG	MODEL	BLDG ELEV A/E DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST ROOM	ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
CSP-SPV-7A					A499	WJHT831654		X X	315004	R	N 114	03	33+		4320
SOLENOID PILOT(CLOSE)CSP-V-7 IR-65							R 478 N.0/3.9		R33		R206			E-IR-65+	
58	2	A	1 3	B1,F		M543		C5							
CSP-SPV-7B					A499	WJHT831654		X X	315004	R	N 114	03	33+		4320
SOLENOID PILOT(OPEN)CSP-V-7 IR-65							R 476 N.0/3.9		R33		R206			E-IR-65+	
58	2	A	1 3	B1,F		M543		C5							
CSP-SPV-8A					A499	WJHT831654		X X	315004	R	N 114	03	33+		4320
SOL PILOT OPEN FOR CSP-V-8							R 478 H.4/6.8		R32		R206			E-IR-62+	
58	2	A	1 3	B1,F		M543		B15							
CSP-SPV-8B					A499	WJHT831654		X X	315004	R	N 114	03	33+		4320
SOL PILOTCLOSE FOR CSP-V-8							R 477 H.4/6.8		R32		R206			E-IR-62+	
58	2	A	1 3	B1,F		M543		B15							
CSP-SPV-9					A499	WJHT8316A74		X X	315004	R	N 114	03	33+		4320
SOLENOID PILOT FOR CSP-V-9 IR-64							R 505 N.0/4.9		R43		R305			E-IR-64+	
58	3	A	1 3	B1,F		M543		B6							
CSP-V-93					T020	82M-002		Z X	361015					06303 05	4320
SOLENOID VALVE							R 471 H.7/7.7								
SS	2	A	1 3	B1		M783		F5							
CSP-V-96					T020	82M-002		Z X	361015					06303 05	4320
SOLENOID VALVE							R 501 H.7/7.7								
SS	2	A	1 3	B1		M783		H4							
CSP-V-97					T020	82M-002		Z X	361015					06303 15	4320
SOLENOID VALVE							R 501 H.7/7.7								
SS	2	A	1 3	B1		M783		H4							
CSP-V-98					T020	82M-002		Z X	361015					06303 15	4320
SOLENOID VALVE							R 471 H.7/7.7								
SS	2	A	1 3	B1		M783									
E-CONN-X100A/01					A380	AMPHENOL JACK#82-503		X X	049001	Y				04293 00 E	4320
SOURCE RANGE NI CONNECTOR							C 507 98 D AZ R40		C47					E-X-100A+	
55	3	P	2 3	H		E539/30									
E-CONN-X100A/02					A380	AMPHENOL PLUG#28650		X X	049002	Y				04293 00 E	4320
SOURCE RANGE NI CONNECTOR							C 507 98 D AZ R40		C47					E-X-100A+	
55	3	P	2 3	H		E539/31									
E-CONN-X100B/01					A380	AMPHENOL JACK#82-503		X X	049001	Y				04293 00 E	4320
SOURCE RANGE NI CONNECTOR							C 507 102 D AZ R40		R47					E-X-100B+	
55	3	P	2 3	H		E539/30									
E-CONN-X100B/02					A380	AMPHENOL PLUG#28650		X X	049002	Y				04293 00 E	4320
SOURCE RANGE NI CONNECTOR							C 507 102 D AZ R40		C47					E-X-100B+	
55	3	P	2 3	H		E539/31									

EPN / DESCRIPTION / CONTRACT / LEVEL / EC / USE / SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING / A/E ZONE	STATUS S E / DETAIL / QID / ZONE / TM	***SEISMIC (S) PARAMETERS*** HL / TEST / ANL / FO / C / FREQ / ACCURACY / ROOM	*ENV. (E) PARAMETERS* AGING / DBE / C / HOURS / COMPOSITE EPN
E-CONN-X100C/01 SOURCE RANGE NI CONNECTION 55 3 P 2 3 H	AMPHENOL JACK#82-503 C 511 315 D AZ R40 C44 E539/30	X X 049001 Y		04293 00 E 4320 E-X-100C+
E-CONN-X100C/02 SOURCE RANGE NI CONNECTION 55 3 P 2 3 H	AMPHENOL PLUG#28650 C 511 315 D AZ R40 C44 E539/31	X X 049002 Y		04293 00 E 4320 E-X-100C+
E-CONN-X100D/01 SOURCE RANGE NI CONNECTION 55 3 P 2 3 H	AMPHENOL JACK#82-503 C 511 322 D AZ R40 C44 E539/30	X X 049001 Y		04293 10 E 4320 E-X-100D+
E-CONN-X100D/02 SOURCE RANGE NI CONNECTION 55 3 P 2 3 H	AMPHENOL PLUG#28650 C 511 322 D AZ R40 C44 E539/31	X X 049002 Y		04293 10 E 4320 E-X-100D+
E-CONN-X102A/01 CONNECTOR (SPLICE) 218 3 P 2 3 H	SOLIDSTRAND 34130 C 534 185 D AZ R40 C56 E539	X X 049006 Y		4320 E-X-102A+
E-CONN-X102A/02 CONNECTOR 218 3 P 2 3 H	WCSF-N SHRINK TUBE C 534 185 D AZ R40 E539	A X 049007 Y		4320 E-X-102A+
E-CONN-X102B/01 CONNECTOR (SPLICE) 218 3 P 2 3 H	SOLIDSTRAND 34130 C 534 219 D AZ R40 C56 E539	X X 049006 Y		4320 E-X-102B+
E-CONN-X102B/02 CONNECTOR 218 3 P 2 3 H	WCSF-N SHRINK TUBE C 534 219 D AZ R40 E539	A X 049007 Y		4320 E-X-102B+
E-IR-61+ R BLDG INSTRU RACK DIV II 58 1 P 2 0 H	757-E-518 R 422 N1/3.5 M567 M10	X X 185002 F N 121 01	24 E-IR-61+	
E-IR-62+ R BLDG INST RACK DIV I 58 1 P 2 0 H	757-E-597 R 471 H4/6.8 M568 E14	X X 185002 F N 121 01 R206	33 E-IR-62+	
E-IR-63+ R BLDG INSTRU RACK DIV II 58 1 P 2 0 H	DWG 757-E-599 R 501 L.4/9.4 M568 C6	X X 185002 F N 21 01 R305	33 E-IR-63+	
E-IR-64+ R BLDG INSTRU RACK DIV II 58 1 P 2 0 H	DWG 757-C-652 R 501 N/4.8 M568 G4	X X 185002 F N 21 01 R305	33 E-IR-64+	
E-IR-65+ R BLDG INSTRU RACK DIV I 58 1 P 2 0 H	757-E-520 R 471 N.0/4.0 M568 M10	X X 185002 F N 21 01 R206	33 E-IP-65+	

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL A/E ZONE	QID / ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
E-IR-66+ R BLDG INSTRU RACK DIV I 58	1	P	2 0 H	757-E-502	J035 M568	R 501 N.8/5.5	X X F3	185002	F	N 21 01 R305	33	E-IR-66+
E-IR-67+ R BLDG INSTRU RACK DIV I 58	1	P	2 0 H	757-E-601	J035 M569	R 548 M.8/5.7	X X F4	185002	F	N 21 01 R504	33	E-IR-67+
E-IR-68+ R BLDG INSTRU RACK DIV II 58	1	P	2 0 H	757-E-522	J035 M569	R 548 M.7/8.1	X X D8	185002	F	N 21 01 R504	33	E-IR-68+
E-IR-69+ R BLDG INSTRU RACK DIV II 58	1	P	2 0 H	757-E-524	J035 M569	R 522 N.0/8.1	X X D10	185002	F	N 21 01 R504	33	E-IR-69+
E-IR-70+ RCC INSTRU RACK DIV II 58	1	P	2 3 H	757-E-526	J035 M569	R 522 J.0/4.0	X X H14	185002	F	N 21 01 R404	33	E-IR-70+
E-IR-71+ R BLDG INSTRU RACK DIV I 58	1	P	2 3 H	757-E-528	J035 M569	R 522 J.0/6.9	X X E14	185002	F	N 21 01 R408	33	E-IR-71+
E-IR-72+ CONT INSTRU AIR INSTRU RACK 58	1	P	2 3 H	757-E-516	J035 M569	R 522 M.8/8.3	X X D14	185002	F	N 21 01 R404	33	E-IR-72+
E-IR-73+ MSIV LEAKAGE CONTROL IR 58	1	P	2 0 H	757-E-603	J035 M569	R 522 M.4/4.2	X X G15	185002	F	N 21 01 R404	33	E-IR-73+
E-IR-74+ MSIV LEAKAGE CONTROL IR 58	1	P	2 0 H	757-E-564	J035 M569	R 522 M.4/7.0	X X E14	185002	F	N 21 01 R404	33	E-IR-74+
E-IR-P001+ LPCS INSTRU RACK .02	1	P	2 0 H	127D1819TC	G080 M568	R 471 K.0/4.2	Y X G13	185003	F	N 121 03 R206	10	E-IR-P001+
E-IR-P002+ RWCU INSTRU RACK 02	1	P	2 3 H	127D1821TC	G080 M569	R 522 N.7/5.0	Y X G10	185003	F	N 121 03 R404	10	E-IR-P002+
E-IR-P004+ RPV INST RACK A 02	1	P	2 3 H	127D1827TC	G080 M569	R 522 J.5/7.2	Y X D13	185003	F	N 121 03	10	E-IR-P004+
E-IR-P005+ RPV INST RACK C 02	1	P	2 3 H	127D1833TC	G080 M569	R 522 N.7/5.6	Y X F9	185003	F	N 121 03 R404	10	E-IR-P005+

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	TM	HL TEST ANL FO C / ROOM	ACCURACY	FREQ	ENV. (E) PARAMETERS AGING DBE C HOURS / COMPOSITE EPN
E-IR-P006+			G080	127D1834TC			Y X	185003	F	N 121	03	10	
RECIRC PUMP A INST RACK						R 471 L.5/4.1							E-IR-P006+
02	1	P	2 3 H		M568		G12						
E-IR-P008+			G080	145C3432TC			R X	185003	F	N 121	03		06153 00 G
SRM/IRM CONTROL RLY RACK						R 522 M.7/9.3				R403			E-IR-P008+
02	1	P	2 3 H		M569		C10						
E-IR-P009+			G080	127D1822TC			Y X	185003	F	N 121	03	10	
JET PUMP INST PNL A						R 471 J.7/8.0							E-IR-P009+
02	1	P	2 1 H		M568		D13						
E-IR-P010+			G080	127D1832TC			Y X	185003	F	N 121	03	10	
JET PUMP INST PNL B						R 471 M.6/4.5							E-IR-P010+
02	1	P	2 1 H		M568		G11						
E-IR-P011+			G080	127D1825TC			R X	185003	F	N 21	03		06153 00 G
SLC INST RACK						R 568 M.8/4.3				R504			E-IR-P011+
02	1	P	2 3 H		M569		G4						
E-IR-P015+			G082	368X270TCG1			Y X	185003	F	N 121	03	10	
MN STM FLOW INST B						R 501 M.7/7.3				R305			E-IR-P015+
02	1	P	2 3 H		M568		D8						
E-IR-P017+			G080	127D1828TC			Y X	185003	F	N 121	03	10	
RCIC SYS INST RACK						R 471 L.0/8.0							E-IR-P017+
02	1	P	2 1 H		M568		D12						
E-IR-P018+			G080	127D1836TC			Y X	185003	F	N 121	03	10	
RHR-INST RACK DIV 1						R 501 J.5/3.8							E-IR-P018+
02	1	P	2 3 H		M568		H7						
E-IR-P021+			G080	127D1841TC			Y X	185003	F	N 121	03	10	
RHR INST RACK DIV II						R 501 M.9/9.3				R305			E-IR-P021+
02	1	P	2 3 H		M568		C8						
E-IR-P022+			G080	127D1838TC			Y X	185003	F	N 121	03	10	
RECIRC PUMP B INST PNL						R 471 M.5/7.9							E-IR-P022+
02	1	P	2 3 H		M568		D11						
E-IR-P024+			G080	127D1840TC			Y X	185003					
HPCS INST RACK						R 471 L.1/4.1							E-IR-P024+
02	1	P	2 0 H		M568		G12						
E-IR-P025+			G080	127D1844TC			Y X	185003	F	N 121	03	10	
NM STM FLOW INST RACK B						R 501 L.9/3.7				R305			E-IR-P025+
02	1	P	2 3 H		M568		H5						
E-IR-P026+			G080	127D1830TC			Y X	185003	F	N 121	03	10	
RPV INST RACK D						R 522 J.8/4.6				R404			E-IR-P026+
02	1	P	2 3 H		M569		G13						

EPN / DESCRIPTION	CONTRACT	LEVEL	MFG EC	MFG USE	SAFETY FUNCTION	MODEL	BLDG ELEV A/E DRAWING	STATUS S E DETAIL	QID ZONE	TH HL TEST ANL FQ C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
E-IR-P027+			G080		127D1929TC			X	185003			G
REACTR VESSEL LVL+ PRES INST RK B							R 522 M.8/6.6					E-IR-P027+
02		1	P	2 3 H		M569		E10				
E-IR-P029+			G080		127D1843TC			Y X	185003	F N 121 03	10	
HPCS DG LOGIC RACK							R 471 K.9/3.8			R206		E-IR-P029+
02		1	P	2 0 H		M568		H12				
E-IR-P030+			G080		145C3488TC			Y X	185003	F N 121 03	10	
IRM/SRM PRE-AMP RACK							R 501 K.6/3.5			R305		E-IR-P030+
02		1	P	2 3 H		M568		H6				
E-IR-P031+			G082		145C3488TC			Y X	185003	F N 121 03	10	
IRM/SRM PRE-AMP RACK							R 501 H.4/7.7			R305		E-IR-P031+
02		1	P	2 3 H		M568		D8				
E-IR-P032+			G080		145C3488TC			Y X	185003	F N 121 03	10	
IRM/SRM PRE-AMP RACK							R 507 L.5/3.5			R305		E-IR-P032+
02		1	P	2 3 H		M568		H5				
E-IR-P033+			G080		145C3488TC			Y X	185003	F N 121 03	10	
IRM/SRM PRE-AMP RACK							R 501 H.8/8.3					E-IR-P033+
02		1	P	2 3 H		M568		D8				
E-IR-P039+			G080		163C1148TC			A X	185003	F N 121 03	10	
REVAB DIV I INST PNL							R 522 H.7/7.0					E-IR-P039+
02		1	P	2 0 H		M569		E10				
E-IR-P040+			G080		163C1144TC			A X	185003	F N 121 03	10	
REVAB DIV II INST PNL							R 522 N.2/4.2					E-IR-P040+
02		1	P	2 0 H		M569		H10				
E-JB-HTP/7B/E+			F119		NONE			X X				06153 06
CMS HEAT TRACE PANEL							R 548 H.1/4.4					E-JB-HTP/7B/E+
218		1	P	2 3 I		E940/1						
E-JB-HTP/8B/A+			F119		NONE			X X				06153 06
CMS HEAT TRACE PANEL							R 548 H.1/4.7					E-JB-HTP/8B/A+
218		1	P	2 3 I		E940/2						
E-JB-TB/IR68/2+			F119		NONE			X X	283052			
INSTR. RACK IR-68 AUX. TERM BOX							R 548 H.8/8.2					
218		1	P	2 0 H								
E-JB-TB/R363+								X X	283011			
CAC LOCAL TERMINAL BOX,DIV II							R 471 N/8.3					
		1	P	2 0 D		E696		C7				
E-JB-TB/R364+								X X	283011			
CAC LOCAL TERMINAL BOX,DIV I							R 471 N.1/9.0					
		1	P	2 0 D		E696		F7				

EPN	MFG	MODEL	STATUS S E	QID	TM	HL	TEST	FREQ	AGING	DBE	C	HOURS	DESCRIPTION	BLDG	ELEV	DETAIL	ZONE	ROOM	COMPOSITE EPN	CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	A/E DRAWING	A/E ZONE
E-PP-7AE+	S345	QM-02653-28EE	X X	252002	W	N	121	10	06303	10	E		INST & CONT POWER PANEL	R	474	N.2/9.3		R206	E-PP-7AE+	218	1	A	1 3	H	E504	J9
E-PP-8AE+	S345	QM-02653-28EE	X X	252002	W	N	121	10	06303	10	E		INST & CONT POWER PANEL	R	474	N.0/8.5			E-PP-8AE+	218	1	A	1 3	H	E504	J3
E-SH-10+	W120	75-DHP-500	X M	305001	F	N	127	04	04153	00	B		6.9 KV SWGR FOR E-CB-RPT3B	R	471	L.0/9.0			E-SH-10+	47A	1	P	2 3	L	E502/4	J8
E-SH-11+	W120	75-DHP-500	X M	305001	F	N	127	04	04153	00	B		SWITCHGEAR TO RRC-M-1A+	R	522	M.8/7.4			E-SH-11+	47A	1	P	2 3	L	E502/4	G14
E-SH-12+	W120	75-DHP-500	X M	305001	F	N	127	04	04153	00	B		SWITCHGEAR TO RRC-M-1B	R	522	M.5/8.0			E-SH-12+	47A	1	P	2 3	L	E502/4	G8
E-SH-9+	W120	75-DHP-500	X M	305001	F	N	127	04	04153	00	B		6.9 KV SWGR FOR E-CB-RPT3A	R	471	K.3/9.0			E-SH-9+	47A	1	P	2 3	L	E502/4	J14
E-X-100A+	W120	WX-32647	X X	382003		Y						4320	NEUTRON MONITOR ELECT PENET TB	C	507	97 DEG AZ	C47		E-X-100A+	55	1	P	2 3	H	S796	
E-X-100B+	W120	WX-32647	X X	382003		Y						4320	NEUTRON MONITOR ELECT PENET TB	C	507	103 DEG AZ	C47		E-X-100B+	55	1	P	2 3	H	S796	
E-X-100C+	W120	WX-32647	X X	382003		Y						4320	NEUTRON MONITOR ELECT PENET TB	C	511	315 DEG AZ	C44		E-X-100C+	55	1	P	2 3	H	S796	
E-X-100D+	W120	WX-32647	X X	382003		Y						4320	NEUTRON MONITOR ELECT PENET TB	C	511	327 DEG AZ	C44		E-X-100D+	55	1	P	2 3	H	S796	
E-X-101A+	W120	WX-32648	X X	382003		Y						4320	CRD POS INDIC ELECT PENET TB	C	511	132 DEG AZ	C47		E-X-101A+	55	1	P	2 3	H	S796	
E-X-101B+	W120	WX-32648	X X	382003		Y						4320	CRD POS INDIC ELECT PENET TB	C	511	138 DEG AZ	C47		E-X-101B+	55	1	P	2 3	H	S796	
E-X-101C+	W120	WX-32648	X X	382003		Y						4320	CRD POS INDIC ELECT PENET TB	C	511	312 DEG AZ	C44		E-X-101C+	55	1	P	2 3	H	S796	

EPN / DESCRIPTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	TM / ROOM	SEISMIC (S) PARAMETERS HL TEST ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING / COMPOSITE EPN	DBE C	HOURS
CONTRACT LEVEL EC USE SAFETY FUNCTION	A/E	A/E ZONE								
E-X-101D+	W120	WX-32648	X X	382003	Y					4320
CRD POS INDIC ELECT PENET TB		C 511 318 DEG AZ		C44				E-X-101D+		
55 1 P 2 3 H	S796									
E-X-102A+	W120	WX-32649	X X	382003	Y					4320
T/C AND RTD ELECT PENET TB		C 534 189 DEG AZ		C56				E-X-102A+		
55 1 P 2 3 H	S796									
E-X-102B+	W120	WX-32649	X X	382003	Y					4320
T/C AND RTD ELECT PENET TB		C 534 218 DEG AZ		C56				E-X-102B+		
55 1 P 2 3 H	S796									
E-X-103A+	W120	WX-32555	X X	382001	Y			05313	10	4320
MED VOLTAGE POWER ELECT PENET TB		C 534 203 DEG AZ		C56				E-X-103A+		
55 1 P 2 3 H	S796									
E-X-103B+	W120	WX-32555	X X	382001	Y			05313	10	4320
MED VOLTAGE POWER ELECT PENET TB		C 534 212 DEG AZ		C56				E-X-103B+		
55 1 P 2 3 H	S796									
E-X-103C+	W120	WX-32555	X X	382001	Y			05313	10	4320
MED VOLTAGE POWER ELECT PENET TB		C 534 305 DEG AZ		C54				E-X-103C+		
55 1 P 2 3 H	S796									
E-X-103D+	W120	WX-32555	X X	382001	Y			05313	10	4320
MED VOLTAGE POWER ELECT PENET TB		C 534 322 DEG AZ		C54				E-X-103D+		
55 1 P 2 3 H	S796									
E-X-104A+	W120	WX-32651	X X	382003	Y					4320
LOW VOLTAGE POWER ELECT PENET TB		C 511 112 DEG AZ		C47				E-X-104A+		
55 1 P 2 3 H	S796									
E-X-104B+	W120	WX-32651	X X	382003	Y					4320
LOW VOLTAGE POWER ELECT PENET TB		C 511 115 DEG AZ		C47				E-X-104B+		
55 1 P 2 3 H	S796									
E-X-104C+	W120	WX-32651	X X	382003	Y					4320
LOW VOLTAGE POWER ELECT PENET TB		C 534 192 DEG AZ		C56				E-X-104C+		
55 1 P 2 3 H	S796									
E-X-104D+	W120	WX-32651	X X	382003	Y					4320
LOW VOLTAGE POWER ELECT PENET TB		C 534 222 DEG AZ		C56				E-X-104D+		
55 1 P 2 3 H	S796									
E-X-105A+	W120	WX-32650	X X	382003	Y					4320
CONTROL AND INDIC ELECT PENET TB		C 507 100 DEG AZ		C47				E-X-105A+		
55 1 P 2 3 H	S796	E8								
E-X-105B+	W120	WX-32650	X X	382003	Y					4320
CONTROL AND INDIC ELECT PENET TB		C 511 135 DEG AZ		C47				E-X-105B+		
55 1 P 2 3 H	S796									

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	TM / ROOM	SEISMIC (S) PARAMETERS HL TEST ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING / COMPOSITE EPN	DBE	C	HOURS
E-X-105C+			W120	WX-32650			X X	382003	Y						4320
CONTROL AND INDIC ELECT PENET TB						C 534 195 DEG AZ		C56				E-X-105C+			
55	1	P	2 3	H	S796										
E-X-105D+			W120	WX-32650			X X	382003	Y						4320
CONTROL AND INDIC ELECT PENET TB						C 534 225 DEG AZ		C56				E-X-105D+			
55	1	P	2 3	H	S796										
E-X-107A+			W120	WX-32652			X X	382003	Y						4320
LO VOLT PWR/CT/IND ELECT PENET TB						C 475 52 DEG AZ		C35				E-X-107A+			
55	1	P	2 3	H	S796										
E-X-107B+			W120	WX-32652			X X	382003	Y						4320
LO VOLT PWR/CT/IND ELECT PENET TB						C 475 240 DEG AZ		C36				E-X-107B+			
55	1	P	2 3	H	S796		F15								
EDR-POS-V/19			N007	SAI-133			C P	248005				05023	11	S	4320
POS FOR CONT ISO VLV						R 468 M.8/4.5						EDR-V-19+			
68	2	A	1 0	B1,I	M537		D9								
EDR-POS-V/20			N007	SAI-133			C J	248005				05023	11	S	4320
POS FOR EDR-V-20						R 468 M.8/4.5						EDR-V-20+			
68	2	A	1 0	B1,I	M537		D9								
EDR-SPV-19			A499	WJHT831654			X X	315004	R	N 114 03	33+				4320
PILOT VALVE FOR CONT ISO VLV V-19						R 426 N.1/3.6		R13	R10			E-IR-61+			
58	2	A	1 0	B1	M537		D9								
EDR-SPV-20			A499	WJHT831654			X X	315004	R	N 114 03	33+				4320
PILOT VALVE FOR CONT ISO VLV V-20						R 477 N.0/3.9		R33	R206			E-IR-65+			
58	2	A	1 0	B1	M537		D9								
FDR-LS-41			M040	BCS-751			Z X	207027				06153	10	E	4320
LD RHR PMP RM A						R 422		R12							
215	2	A	1 0	F	M539		B11								
FDR-LS-42			M040	BCS-751			Z X	207027				06153	00	E	4320
LD RHR PMP RM B						R 422		R13							
215	2	A	1 0	F	M539		B14								
FDR-LS-43			M040	BCS-751			Z X	207027				06153	00	E	4320
LD RHR PMP RM C						R 422		R12							
215	2	A	1 0	F	M539		B10								
FDR-LS-44			M040	BCS-751			Z X	207027				06153	00	E	4320
LD RCIC PMP RM						R 422		R12							
215	2	A	1 0	F	M539		B13								
FDR-LS-45			M040	BCS-751			Z X	207027				06153	10	E	4320
LD LPCS PMP RM						R 422		R12							
215	2	A	1 0	F	M539		B9								

EPN / DESCRIPTION / CONTRACT / LEVEL / EC / USE / SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / A/E DRAWING / A/E ZONE	STATUS / DETAIL / ZONE / ROOM	SEISMIC (S) PARAMETERS: HL / TEST / ANL / FO / C / FREQ / ACCURACY	ENV. (E) PARAMETERS: AGING / DBE / C / HOURS / COMPOSITE EPN
FDR-LS-46 LD HPCS PMP RM 215 2 A 1 0 F	M040 BCS-751	R 422 M539	Z X 207027 R12 B8		01653 10 E 4320
FDR-POS-V/3 POS FOR FDR-V-3 41 2 A 1 0 B1,I	N007 SAI-133	R 467 M.0/4.1 M539	C P 248004 D6		05023 11 S 4320 FDR-V-3+
FDR-POS-V/4 POS FOR FDR-V-4 41 2 A 1 0 B1,I	N007 SAI-133	R 467 M.0/4.1 M539	C J 248004 D6		05023 11 S 4320 FDR-V-4+
FDR-SPV-3 CONT. F R ISO VLV 58 2 A 1 0 B1	A499 WJHT831654	R 426 N.1/3.6 M539	A X 315004 R N 114 03 R13 R10 D6	33+	4320 E-IR-61+
FDR-SPV-4 SOLENOID PILOT FOR EDR-V-4 IR-65 58 2 A 1 0 B1	A499 WJHT831654	R 477 N.0/3.9 M539	A X 315004 R N 114 03 R33 R206 D6	33+	4320 E-IR-65+
FPC-MO-153 MO FOR FPC-V-153 41A 2 A 1 3 B1	L200 SMB-000-5	R 452 K/7.9 M526	A X 221001 P Y 114 R21 B11	33+	06 4320 FPC-V-153+
FPC-MO-154 MO FOR FPC-V-154 41A 2 A 1 3 B1	L200 SMB-000-5	R 452 J9/8 M526	A X 221001 P Y 114 R21 B11	33+	06 4320 FPC-V-154+
FPC-MO-156 MO FOR FPC-V-156 41A 2 A 1 3 B1	L200 SMB	R 468 K2/8.2 M526	A X 221001 P Y 114 R21 C11	33+	06 4320 FPC-V-156+
FPC-TE-7 FUEL POOL 215 2 A 1 3 F		R 572 M526	R D R31 H11		00 B 4320
HPCS-FIS-6 HPCS-P-1 DISCH 02E22 3 A 1 0 C	B080 289 M22-P024	R 475 L.2/3.4 M520	Y X 140001 N 14 00 R33 R206 E4	33+	24 E-IR-P024+
HPCS-FT-5 HPCS-P-1 DISCH 02 3 A 1 0 I	D040 50-555-11CMA4WCF	R 475 L.1/4.1 M520	Y J 156003 N 14 00 R33 R206 D4	33+	05153 10 P 4320 E-IR-P024+
HPCS-LS-1A HPCS-P-1 EMERGENCY SWITCHOVER 215 2 A 1 0 C	M040 3.5-751-1X-MPG-M14HY	R 446 H.6/5.0 M527	X X 207002 E J8		05253 11 E 24
HPCS-LS-1B HPCS-P-1 EMERGENCY SWITCHOVER 215 2 A 1 0 C	M040 3.5-751-1X-MPG-M14HY	R 446 H.6/5.0 M527	X X 207002 E J7		05253 11 E 24

EPN / DESCRIPTION	MFG / MODEL	STATUS S E / DETAIL	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CONTRACT LEVEL EC USE SAFETY FUNCTION	A/E DRAWING	A/E ZONE					
HPCS-LS-2A	M040 3.5-751-1X-MPG-M14HY	X X	207002	N 14 00			06303 17 E 24
SUPPRESSION POOL LVL HPCS VLV CNTL	R 467 J.5/4.3		R32				
02E22 2 A 1 0 C	M543	B14					
HPCS-LS-2B	M040 3.5-751-1X-MPG-M14HY	X X	207002	N 14 00			06303 17 E 24
SUPPRESSION POOL LVL HPCS VLV CNTL	R 468 L.8/7.9		R33				
02E22 2 A 1 0 C	M543	B5					
HPCS-M-P/1	G080 5K6357XC10A/PZ55	R X	213032	N			05153 10 E 4320
3000HP/373A MOTOR DRIVER HPCS-P-1	R 430 M.2/3.7		R13	R11			HPCS-P-1+
02E 2 A 1 0 C.E	M520	B6					
HPCS-M-P/3	W120 TBDP/256T	X X	213016				4320
15HP/18A MOTOR FOR HPCS-P-3	R 424 L.5/3.5		R13	R11			HPCS-P-3+
35A 2 A 1 0 C.E	M520	C6					
HPCS-MO-1	L200 SMB-000-25	A X	221001 P	N 114		33+	4320
1.6HP 3.4A MOTOR OPER. HPCS-V-1	R 435 M.0/3.9		R13	R11			HPCS-V-1+
02E22 2 A 1 0 C.E	M520	C7					
HPCS-MO-10	L200 SMB-3-150	A X	221001	N 114		33+	24
26.0HP MOTOR OPERATOR HPCS-V-10	R 451 M/3.8		R23	R106			HPCS-V-10+
02E22 2 A 1 0 C.E	M520	E3					
HPCS-MO-11	L200 SMB-3-150	A X	221001 P	N 114		33+	24
9.75HP MOTOR OPERATOR HPCS-V-11	R 453 M/3.8		R23	R106			HPCS-V-11+
02E22 2 A 1 0 C.E	M520	E3					
HPCS-MO-12	L200 SMB-2-40	A X	221001 P	N 114		33+	24
5HP 8.4A MOTOR OPER. HPCS-V-12	R 430 M/3.4		R13	R11			HPCS-V-12+
02E22 2 A 1 0 C.E	M520	D5					
HPCS-MO-15	L200 SMB-2-40	A X	221001 P	Y 114		33+	10 4320
MOTOR OPERATOR HPCS-V-15	R 455 L.4/3.8		R23	R106			HPCS-V-15+
02E22 2 A 1 0 C.E	M520	D7					
HPCS-MO-23	L200 SMB-4-150	A X	221001 P	N 114		33+	24
9.75HP MOTOR OPERATOR HPCS-V-23	R 451 L.6/3.9		R23	R106			HPCS-V-23+
02E22 2 A 1 0 C	M520	E5					
HPCS-MO-4	L200 SMB-4-200	A X	221001 P	Y 114		33+	4320
26HP 35A MOTOR OPERATOR HPCS-V-4	R 540 M.3/7.3		R53	R404			HPCS-V-4+
02E22 2 A 1 0 C.E	M520	G7					
HPCS-PIS-13	B080 288	Y X	198001	N 121		09	24
HPCS-P-3 LOW DISCH ALARM H22-P024	R 475 L.2/3.9		R33	R206			E-IR-P024+
02E22 3 P 2 0 G	M520	C4					
HPCS-PIS-3	B080 288	X X	198001				06153 02 E 24
HPCS-P-1 SUCTION PRESSURE	R 428 L.1/3.5						
02E22 3 P 2 0 G	M520	D6					

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	MFG / MODEL / SAFETY FUNCTION	BLDG ELEV / A/E DRAWING	STATUS / DETAIL / A/E ZONE	QID / ZONE	S E TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	ENV. (E) PARAMETERS: AGING / DBE / C / HOURS / COMPOSITE EPN
HPCS-PS-12 HPCS-P-1 DISCH 215	2	A	1 0	S382 F22-P024 C,E	R 471 L.2/3.9 M520	X X B5	256016 R33	R N 114 R206	33+	24 E-1R-P024+
HPCS-PT-4 PT FOR HPCS-P-1 DISCH PRESS 02E22	3	P	2 0	B040 556 G	R 471 L.2/3.9 M520	Y X B5	259001 R33			06103 13 E 4320 E-1R-P024+
HY-V-17A .75" SOLEN. ISO. VALVE 215	2	A	1 0	T020 82M-002 B1	R 525 H.0/4.5 M530	X X E5	361012 T26			06153 13 .17
HY-V-17B .75" SOLEN. ISO. VALVE 215	2	A	1 0	T020 82M-002 B1	R 525 J.8/7.3 M530	X X E4	361012 T26			06153 13 .17
HY-V-18A .75" SOLEN. ISO. VALVE 215	2	A	1 0	T020 82M-002 B1	R 525 H.0/4.5 M530	X X E5	361012 T26			06153 13 .17
HY-V-18B .75" SOLEN. ISO. VALVE 215	2	A	1 0	T020 82M-002 B1	R 525 J.8/7.3 M530	X X E4	361012 T26			06153 13 .17
HY-V-19A .75" SOLEN. ISO. VALVE 215	2	A	1 0	T020 82M-002 B1	R 525 H.0/4.5 M530	X X E5	361012 T26			06153 13 .17
HY-V-19B .75" SOLEN. ISO. VALVE 215	2	A	1 0	T020 82M-002 B1	R 525 J.8/7.3 M530	X X E4	361012 T26			06153 13 .17
HY-V-20A .75" SOLEN. ISO. VALVE 215	2	A	1 0	M095 MV250 B1	R 525 H.0/4.5 M530	X D5	361009 T26			01014 13 Z .17
HY-V-20B .75" SOLEN. ISO. VALVE 215	2	A	1 0	M095 MV250 B1	R 525 J.8/7.3 M530	R X E4	361009 T26			01014 13 Z .17
HY-V-33A .75" SOLEN. ISO. VALVE 215	2	A	1 0	TC20 82M-002 B1	R 525 H.0/4.5 M530	X X E13	361012 R51			06153 13 .17
HY-V-33B .75" SOLEN. ISO. VALVE 215	2	A	1 0	T020 82M-002 B1	R 525 J.8/7.3 M530	X X E13	361012 R51			06153 13 .17
HY-V-34A .75" SOLEN. ISO. VALVE 215	2	A	1 0	T020 82M-002 B1	R 525 H.0/4.5 M530	X X E13	361012 R51			06153 13 .17

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	MFG / MODEL / SAFETY FUNCTION	BLDG	ELEV / A/E DRAWING	STATUS S	E	GID / A/E ZONE	TM	HL	TEST ROOM	ANL	FO	C	FREQ ACCURACY	ENV. AGING	(E) PARAMETERS DBE	C	HOURS COMPOSITE EPN
HY-V-34B			T020	82M-002				X	X 361012								06153	13		.17
.75" SOLEN. ISO. VALVE						R 525	J.8/7.3		R51											
215	2	A	1 0 B1		M530				E13											
HY-V-35A			T020	82M-002				X	X 361012								06153	13		.17
.75" SOLEN. ISO. VALVE						R 525	M.0/4.5		R51											
215	2	A	1 0 B1		M530				E13											
HY-V-35B			T020	82M-002				X	X 361012								06153	13		.17
.75" SOLEN. ISO. VALVE						R 525	J.8/7.3		R51											
215	2	A	1 0 B1		M530				E13											
HY-V-36A			M095	HV250				X	361009								01014	13	Z	.17
.75" SOLEN. ISO. VALVE						R 525	M.0/4.5		R51											
215	2	A	1 0 B1		M530				E13											
HY-V-36B			M095	HV250				X	361009								01014	13	Z	.17
.75" SOLEN. ISO. VALVE						R 525	J.8/7.3		R51											
215	2	A	1 0 B1		M530				E13											
LD-TE-18A			P427	282-N1A72				X	X 339004		N		01			99+	06153	10	E	24
LD TE RHR EQUIP AREA AMB TEMP						R 468	M.7/9.0													
02E31	2	A	1 0 F.B1		807E154TC/				3B											
LD-TE-18B			P427	282-N1A72				X	X 339004		N		01			99+	06153	10	E	24
LD TE RHR EQUIP AREA AMB TEMP						R 465	K.0/9.0													
02E31	2	A	1 0 F.B1		807E154TC/				3F											
LD-TE-18C			P427	282-N1A72				X	X 339004		N		01			99+	06153	10	E	24
LD TE RHR EQUIP AREA AMB TEMP						R 468	M.7/9.0													
02E31	2	A	1 0 F.B1		807E154TC/				3B											
LD-TE-18D			P427	282-N1A72				X	X 339004		N		01			99+	06153	10	E	24
LD TE RHR EQUIP AREA AMB TEMP						R 465	K.0/9.0													
02E31	2	A	1 0 F.B1		807E154TC/				3F											
LD-TE-1A			N070	P/P 145C3224P001				X	X 339004	W	N		01			99+	06153	10	E	24
LD TE RWCU PMP RM 1 INLET VENT						R 532	M.0/4.7													
02E31	2	A	1 0 F.B1		807E154TC/				2B2											
LD-TE-1B			N070	P/P 145C3224P001				X	X 339004	W	N		01			99+	06153	10	E	24
LD TE RWCU PMP RM 1 INLET VENT						R 532	M.6/4.4													
02E31	2	A	1 0 F.B1		807E154TC/				2F2											
LD-TE-1C			N070	P/P 145C3224P001				X	X 339004	W	N		01			99+	06153	10	E	24
LD TE RWCU PMP RM 2 INLET VENT						R 532	M.8/5.0													
02E31	2	A	1 0 F.B1		807E154TC/				2B4											
LD-TE-1D			N070	P/P 145C3224P001				X	X 339004	W	N		01			99+	06153	10	E	24
LD TE RWCU PMP RM 2 INLET VENT						R 532	N.2/5.4													
02E31	2	A	1 0 F.B1		807E154TC/				2F4											

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / QID / A/E ZONE	TM / ZONE	***SEISMIC (S) PARAMETERS*** HL TEST / ROOM	ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE C / HOURS
LD-TE-1E LD TE RWCU HEAT EXCH RM INLET VENT 02E31	2	A	1 0	F,B1	N070 P/P 145C3224P001 R 554 807E154TC/	X X K.1/3.4 2B5	339004	N	01	99+	06153	10 E 24
LD-TE-1F LD TE RWCU HEAT EXCH RM INLET VENT 02E31	2	A	1 0	F,B1	N070 P/P 145C3224P001 R 554 807E154TC/	X X K.1/3.4 2F5	339004	N	01	99+	06153	10 E 24
LD-TE-27A LD TE RHR EQUIP AREA INLET VENT 02E31	2	A	1 0	F,B1	N070 N145C3224PI R 432 807E154TC/	X X L5/9.4 3B9	339004 R13	N R7	01	99+	06153	10 E 24
LD-TE-27B LD TE RHR EQUIP AREA INLET VENT 02E31	2	A	1 0	F,B1	N070 N145C3224PI R 432 807E154TC/	X X K9/9.4 3F9	339004 R11	N R6	01	99+	06153	10 E 24
LD-TE-27C LD TE RHR EQUIP AREA INLET VENT 02E31	2	A	1 0	F,B1	N070 N145C3224PI R 432 807E154TC/	X X L5/9.4 3B	339004 R13	N R7	01	99+	06153	10 E 24
LD-TE-27D LD TE RHR EQUIP AREA INLET VENT 02E31	2	A	1 0	F,B1	N070 N145C3224PI R 432 807E154TC/	X X K9/9.4 3F	339004 R11	N R6	01	99+	06153	10 E 24
LD-TE-28A LD TE RHR EQUIP AREA OUTLET VENT 02E31	2	A	1 0	F,B1	P427 282W1A72 R 461 807E154TC/	X X L3/9.3 3E9	339004 R23	N R115	01	99+	06153	10 E 24
LD-TE-28B LD TE RHR EQUIP AREA OUTLET VENT 02E31	2	A	1 0	F,B1	P427 282W1A72 R 465 807E154TC/	X X K.9/9.3 3K7	339004 R21	N R116	01	99+	06153	10 E 24
LD-TE-28C LD TE RHR EQUIP AREA OUTLET VENT 02E31	2	A	1 0	F,B1	P427 282W1A72 R 461 807E154TC/	X X L3/9.3 3E	339004 R23	N R115	01	99+	06153	10 E 24
LD-TE-28D LD TE RHR EQUIP AREA OUTLET VENT 02E31	2	A	1 0	F,B1	P427 282F9T37 R 465 807E154TC/	X X K.9/9.3 3K	339004 R21	N R116	01	99+	06153	10 E 24
LD-TE-29A LD TE HN STM LINE TUNNEL INLET VEN 02F31	2	A	1 0	F,B1	N070 N145C3224PI R 502 807E154TC/	X X H.4/5.8 3B5	339004 R42	N R310	01	99+	06153	10 E 24
LD-TE-29B LD TE HN STM LINE TUNNEL INLET VEN 02E31	2	A	1 0	F,B1	N070 N145C3224PI R 502 807E154TC/	X X H.4/5.8 3B6	339004 R42	N R310	01	99+	06153	10 E 24
LD-TE-29C LD TE HN STM LINE TUNNEL INLET VEN 02E31	2	A	1 0	F,B1	N070 N145C3224PI R 502 807E154TC/	X X H.4/6.6 3F5	339004 R41	N R310	01	99+	06153	10 E 24

EPN / CONTRACT	LEVEL	MFG / MODEL / DESCRIPTION / EC / USE / SAFETY FUNCTION	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM / HL TEST ROOM	ANL FO C / ACCURACY	FREQ	*ENV. AGING	(E) PARAMETERS* DBE	C	HOURS COMPOSITE EPN
LD-TE-29D		P427 N145C3224PI		X X	339004.	N	01	99+	06153	10	E	24
LD TE MN STM LINE TUNNEL INLET VEN			R 502 H.4/6.2		R41	R310	01					
02E31	2	A 1 0 F,B1	807E154TC/	3F6								
LD-TE-2A		P427 282N1A72		X X	339004	W N	01	99+	06153	10	E	24
LD TE RWCU PMP RM 1 OUTLET VENT			R 532 M.3/4.5									
02E31	2	A 1 0 F,B1	807E154TC/	2E2								
LD-TE-2B		P427 282N1A72		X X	339004	W N	01	99+	06153	10	E	24
LD TE RWCU PMP RM 1 OUTLET VENT			R 532 M.3/4.5									
02E31	2	A 1 0 F,B1	807E154TC/	2K2								
LD-TE-2C		P427 282N1A72		X X	339004	W N	01	99+	06153	10	E	24
LD TE RWCU PMP RM 2 OUTLET VENT			R 532 M.8/5.4									
02E31	2	A 1 0 F,B1	807E154TC/	2E4								
LD-TE-2D		P427 282N1A72		X X	339004	W N	01	99+	06153	10	E	24
LD TE RWCU PMP RM 2 OUTLET VENT			R 532 M.8/5.4									
02E31	2	A 1 0 F,B1	807E154TC/	2K4								
LD-TE-2E		P427 288F9734		X X	339004	N	01	99+	06153	10	E	24
LD TE RWCU HEAT EXCH RM OUTLET VEN			R 570 L.9/4.4		R62	R510						
02E31	2	A 1 0 F,B1	807E154TC/	2E5								
LD-TE-2F		P427 282N1A72		X X	339004	N	01	99+	06153	10	E	24
LD TE RWCU HEAT EXCH RM OUTLET VEN			R 570 L.9/4.4		R62	R510						
02E31	2	A 1 0 F,B1	807E154TC/	2K5								
LD-TE-30A		P427 282N1A72		X X	339004	W N	01	99+	06153	10	E	24
LD TE MN STM LINE TUNNEL OUTLET V			R 526 J.0/5.9		R42	R310						
02E31	2	A 1 0 F,B1	807E154TC/	3E5								
LD-TE-30B		P427 282N1A72		X X	339004	W N	01	99+	06153	10	E	24
LD TE MN STM LINE TUNNEL OUTLET V			R 526 J.0/5.6		R42	R310						
02E31	2	A 1 0 F,B1	807E154TC/	3E6								
LD-TE-30C		P427 282N1A72		X X	339004	W N	01	99+	06153	10	E	24
LD TE MN STM LINE TUNNEL OUTLET V			R 526 J.0/5.2		R41							
02E31	2	A 1 0 F,B1	807E154TC/	3K5								
LD-TE-30D		P427 282N1A72		X X	339004	W N	01	99+	06153	10	E	24
LD TE MN STM LINE TUNNEL OUTLET V			R 526 J.0/6.1		R41	R310						
02E31	2	A 1 0 F,B1	807E154TC/	3K6								
LD-TE-31A		N070 N145C3224FI		X X	339004	N	01	99+	06153	10	E	24
LD TE MN STM LINE TUNNEL AMB TEMP			R 502 H.7/5.8		R42	R310						
02E31	2	A 1 0 F,B1	807E154TC/	3B7								
LD-TE-31B		N070 N145C3224FI		A X	339004	N	01	99+	06153	10	E	24
LD TE MN STM LINE TUNNEL AMB TEMP			R 502 H.7/5.6		R42	R310						
02E31	2	A 1 0 F,B1	807E154TC/	3B8								

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TM	SEISMIC (S) PARAMETERS HL / ROOM	TEST ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING / COMPOSITE EPN	DBE C	HOURS
LD-TE-31C LD TE MN STM LINE TUNNEL AMB TEMP 02E31	2	A	1	0 F•B1	N070 N145C3224PI 807E154TC/	R 502 H•7/6•6	A X 3F7	339004		N R41	01 R310	99+	06153	10 E	24
LD-TE-31D LD TE MN STM LINE TUNNEL AMB TEMP 02E31	2	A	1	0 F•B1	N070 N145C3224PI 807E154TC/	R 502 H•7/6•2	A X 3F8	339004		N R41	01 R310	99+	06153	10 E	24
LD-TE-3A LD TE RWCU PMP RM 1 02E31	2	A	1	0 F•B1	P427 282N1A72 807E154TC/	R 532 M•5/4•6	X X 2B9	339004		N	01	99+	06153	10 E	24
LD-TE-3B LD TE RWCU PMP RM 1 02E31	2	A	1	0 F•B1	P427 282N1A72 807E154TC/	R 532 M•5/4•6	X X 2F9	339004	W	N	01	99+	06153	10 E	24
LD-TE-3C LD TE RWCU PMP RM 2 02E31	2	A	1	0 F•B1	P427 282N1A72 807E154TC/	R 532 M•8/5•3	X X 2B	339004	W	N	01	99+	06153	10 E	24
LD-TE-3D LD TE RWCU PMP RM 2 02E31	2	A	1	0 F•B1	P427 282N1A72 807E154TC/	R 532 M•8/5•3	X X 2F	339004	W	N	01	99+	06153	10 E	24
LD-TE-3E LD TE RWCU HEAT EXCH RM 02E31	2	A	1	0 F•B1	P427 282N1A72 807E154TC/	R 570 L•0/4•1	X X 2B6	339004		N R61	01 R510	99+	06153	10 E	24
LD-TE-3F LD TE RWCU HEAT EXCH RM 02E31	2	A	1	0 F•B1	P427 282N1A72 807E154TC/	R 570 L•0/4•1	X X 2F6	339004		N R61	01 R510	99+	06153	10 E	24
LD-TE-4A LD TE RCIC EQUIP AREA 02E31	2	A	1	0 F•B1	P427 282N1A72 807E154TC/	R 467 J•0/7•5	X X 3B4	339004		N R21	01 R112	99+	05153	10 E	24
LD-TE-4B LD TE RCIC EQUIP AREA 02E31	2	A	1	0 F•B1	P427 282N1A72 807E154TC/	R 467 J•0/7•5	X X 3F4	339004		N R21	01 R112	99+	06153	10 E	24
LD-TE-5A LD TE RCIC EQUIP AREA INLET VENT 02E31	2	A	1	0 F•B1	N070 N145C3224PI 807E154TC/	R 436	X X 3B2	339004		N	01	99+	06153	10 E	24
LD-TE-5B LD TE RCIC EQUIP AREA INLET VENT 02E31	2	A	1	0 F•B1	N070 N145C3224PI 807E154TC/	R 436	X X 3F2	339004		N	01	99+	06153	10 E	24
LD-TE-6A LD-TE RCIC EQUIP AREA OUTLET VENT 02E31	2	A	1	0 F•B1	N070 N145C3224PI 807E154TC/	R 460 H•4/7•5	X X 3F2	339004		N R21	01 R112	99+	06153	10 E	24

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG	MODEL	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM	HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE	C	HOURS
LD-TE-68 LD-1E RCIC EQUIP AREA OUTLET VENT 02E31	2	A	1 0	F,E1	N070	N145C3224PI 807E154TC/	R 460 H.4/7.5	X X 3K2	339004	N	01	99+	06153	10	E	24
LPCS-FIS-4 LPCS-P-1 DISCH FLOW 02E21	3	A	1 0	C	B080 H22-P001	289A M520	R 475 K.0/4.2	Y X B14	140001	N	14 00	33+	E-IR-P001+			24
LPCS-FT-3 LPCS-P-1 DIS FLOW TX 02E21	3	A	1 0	C	R369	1151DP5E22-PB M520	R 473 K.0/4.2	Y X B14	156005	N	14 00	33+	05153 E-IR-P001+	00	P	4320
LPCS-M-P/1 1500 HP/192A MTR DRIVER P-1 02E21	2	A	1 0	C	G080	5K6347XC65A/PZ42 M520	R 429 K.2/3.8	R X B11	213032	N R12			05153 LPCS-P-1+	10	E	4320
LPCS-M-P/2 15HP/20A MTR FOR LPCS-P-2 WATERLEG 02E21	2	A	1 0	C	W120	75040786 M520	R 422 J.8/3.6	X X C12	213016	R12	R12		06303 LPCS-P-2+	01	E	4320
LPCS-MO-1 1.62HP MOTOR OPERATOR LPCS-V-1 41A	2	A	1 0	C,B1	L200	SMB-0-40 M520	R 452 K/4.1	A X D11	221001	P	Y 114 R12 R114	33+	LPCS-V-1+			4320
LPCS-MO-11 MOTOR OPERATOR LPCS-FCV-11 02E21	2	A	1 0	C	L200	SMB-000-5 M520	R 425 K.2/3.5	A X B13	221001	P	Y 114 R12 R12	33+	LPCS-FCV-11+			4320
LPCS-MO-12 3.89HP MOTOR OPERATOR LPCS-V-12 41B	2	A	1 0	C,B1	L200	SMB-3-60 M520	R 454 K.0/3.6	A X E15	221001	P	N 114 R22 R114	33+	LPCS-V-12+	00	C	24
LPCS-MO-5 9.75HP MOTOR OPERATOR LPCS-V-5 41A	2	A	1 0	B1,C	L200	SMB-3-100 M520	R 530 L.8/4.3	A X G11	221001	P	Y 114 R53 R404	33+	LPCS-V-5+			4320
LPCS-PIS-1 LPCS-P-1 DISCH TO ADS PERMISSIVE 02E21	2	A	1 0	C	R290	SP-222-C M520	R 475 K.0/4.2	Y D B13	245003	R32			03283 E-IR-P001+	00	S	24
LPCS-PIS-5 LPCS-P-1 DISCHARGE H22-P001 02	2	P	2 0	G	B080	288 M520	R 471 K.0/4.2	Y X B14	086001	R	N 114 R12 R12	33+	06153 E-IR-P001+	02	E	4320
LPCS-PS-9 LPCS PMP DISCH PS TO ADS PERMISSIV 02E21	2	A	1 0	C	B069	P1H-M340SS-V M520	R 471 K.0/4.2	Y X B13	256005	R	N R12 R12		E-IR-P001+			24
LPRM-CONN-12BCD CONNECTOR FOR LPRM-DET-1-2B,C,D 02B13	3	P	2 3	L	A380	CAT. X901-200 807E163TC	C 501 BENEATH RPV	R J	049003	Y			06153	11	E	.17

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING	STATUS / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / HL / TEST / ANL / FO / C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	OBE	C	HOURS
LPRM-CONN-13CDA CONNECTOR FOR LPRM-DET-13C,D,A 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-14ABD CONNECTOR FOR LPRM-DET-1-4A,B,D 02B13	3	P	2 3	CAT. X901-200		J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-15ABC CONNECTOR FOR LPRM-DET-1-5A,B,C 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-16BCD CONNECTOR FOR LPRM-DET-1-6B,C,D 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-21ABC CONNECTOR FOR LPRM-DET-2-1A,B,C 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-22DAB CONNECTOR FOR LPRM-DET-2-2D,A,B 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-23CDA CONNECTOR FOR LPRM-DET-2-3C,D,A 02B13	3	P	2 3	CAT. X901-200		J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-24BCD CONNECTOR FOR LPRM-DET-2-4B,C,D 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-25ABC CONNECTOR FOR LPRM-DET-2-5A,B,C 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-26DAB CONNECTOR FOR LPRM-DET-2-6D,A,B 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-27CDA CONNECTOR FOR LPRM-DET-2-7 ,D,A 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-31CDA CONNECTOR FOR LPRM-DET-3-1C,D,A 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17
LPRM-CONN-32DAB CONNECTOR FOR LPRM-DET-3-2D,A,B 02B13	3	P	2 3	CAT. X901-200	807E163TC	J 049003 C 501 BENEATH RPV				06153 COMPOSITE EPN	11	E	.17

EPN / CONTRACT	LEVEL	EC	MFG / USE	SAFETY FUNCTION	MODEL / A/E	BLDG ELEV / DRAWING	STATUS / A/E ZONE	S E	QID / ZONE	TM HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. AGING	(E) PARAMETERS* DBE	C	HOURS COMPOSITE EPN
LPRM-CONN-33ABC CONNECTOR FOR LPRM-DET-3-3A,B,C			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2,3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-34BCD CONNECTOR FOR LPRM-DET-3-4B,C,D			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-35CDA CONNECTOR FOR LPRM-DET-3-5C,D,A			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-36DAB CONNECTOR FOR LPRM-DET-3-6D,A,B			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-37ABC CONNECTOR FOR LPRM-DET-3-7A,B,C			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-41CDA CONNECTOR FOR LPRM-DET-4-1C,D,A			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-42BCD CONNECTOR FOR LPRM-DET-4-2B,C,D			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-43ABC CONNECTOR FOR LPRM-DET-4-3A,B,C			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-44DAB CONNECTOR FOR LPRM-DET-4-4D,A,B			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-45CDA CONNECTOR FOR LPRM-DET-4-5C,D,A			A380	CAT X901-200			J		049003			06153	10	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-46BCD CONNECTOR FOR LPRM-DET-4-6B,C,D			A380	CAT. X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-47ABC CONNECTOR FOR LPRM-DET-4-7A,B,C			A380	CAT X901-200			J		049003			06153	13	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						
LPRM-CONN-51ABC CONNECTOR FOR LPRM-DET-5-1A,B,C			A380	CAT X901-200			J		049003			06153	11	E	.17
02B13	3	P	2 3 L			807E163TC	C		501 BENEATH RPV						

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
LPRM-CONN-52BCD CONNECTOR FOR LPRM-DET-5-2B,C,D	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 01 E .17
02B13					807E163TC						
LPRM-CONN-53CDA CONNECTOR FOR LPRM-DET-5-3C,D,A	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 13 E .17
02B13					807E163TC						
LPRM-CONN-54DAB CONNECTOR FOR LPRM-DET-5-4D,A,B	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 13 E .17
02B13					807E163TC						
LPRM-CONN-55ABC CONNECTOR FOR LPRM-DET-5-5A,B,C	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 13 E .17
02B13					807E163TC						
LPRM-CONN-56BCD CONNECTOR FOR LPRM-DET-5-6B,C,D	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 11 E .17
02B13					807E163TC						
LPRM-CONN-57CDA CONNECTOR FOR LPRM-DET-5-7C,D,A	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 13 E .17
02B13					807E163TC						
LPRM-CONN-61ABC CONNECTOR FOR LPRM-DET-6-1A,B,C	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 11 E .17
02B13					807E163TC						
LPRM-CONN-62DAB CONNECTOR FOR LPRM-DET-6-2D,A,B	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 11 E .17
02B13					807E163TC						
LPRM-CONN-63CDA CONNECTOR FOR LPRM-DET-6-3C,D,A	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 11 E .17
02B13					807E163TC						
LPRM-CONN-64BCD CONNECTOR FOR LPRM-DET-6-4B,C,D	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 11 E .17
02B13					807E163TC						
LPRM-CONN-65ABC CONNECTOR FOR LPRM-DET-6-5A B C	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 11 E .17
02B13					807E163TC						
LPRM-CONN-66DAB CONNECTOR FOR LPRM-DET-6-6C,A,B	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 13 E .17
02B13					807E163TC						
LPRM-CONN-72DAB CONNECTOR FOR LPRM-DET-7-2D,A,B	3	P	2 3 L	CAT X901-200	A380	C 501 BENEATH RPV	J 049003				06153 11 E .17
02B13					807E163TC						

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	MFG / SAFETY FUNCTION	MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	SEISMIC (S) PARAMETERS TH	HL	TEST ROOM	ANL	FO	C	FREQ ACCURACY	ENV. (E) PARAMETERS AGING	DBE	C	HOURS COMPOSITE EPN
LPRM-CONN-73ABC CONNECTOR FOR LPRM-DET-7-3A,B,C 02B13	3	P	2 3	L	A380 CAT X901-200	C 501 BENEATH RPV 807E163TC	J	049003								06153	11	E	.17
LPRM-CONN-74BCD CONNECTOR FOR LPRM-DET-7-4B,C,D 02B13	3	P	2 3	L	A380 CAT X901-200	C 501 BENEATH RPV 807E163TC	J	049003								06153	11	E	.17
LPRM-CONN-75CDA CONNECTOR FOR LPRM-DET-7-5C,D,A 02B13	3	P	2 3	L	A380 CAT X901-200	C 501 BENEATH RPV 807E163TC	J	049003								06153	13	E	.17
LPRM-DET-12BCD PWR RGE DET ASSM CH 12B,C,D 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W	Y		04					11	G	.17
LPRM-DET-13CDA PWR RGE DET ASSM CH 13C,D,A 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W	Y		04					11	G	.17
LPRM-DET-14ABD PWR RGE DET ASSM CH 14A,B,D 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV	X J	067002									11	G	.17
LPRM-DET-15ABC PWR RGE DET ASSM CH 15A,B,C 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W	Y		04					11	G	.17
LPRM-DET-16BCD PWR RGE DET ASSM CH 16B,C,D 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W	Y		04					11	G	.17
LPRM-DET-21ABC PWR RGE DET ASSM CH 21A,B,C 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W	Y		04					11	G	.17
LPRM-DET-22DAB PWR RGE DET ASSM CH 22D,A,B 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W	Y		04					11	G	.17
LPRM-DET-23CDA PWR RGE DET ASSM CH 23C,D,A 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV	X J	067002									11	G	.17
LPRM-DET-24BCD PWR RGE DET ASSM CH 24B,C,D 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W	Y		04					11	G	.17
LPRM-DET-25ABC PWR RGE DET ASSM CH 25A,B,C 02C51	2	A	1 0	L	G080 163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W	Y		04					11	G	.17

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TH / HL TEST / ANL FO C / ROOM / ACCURACY / FREQ	*ENV. (E) PARAMETERS* AGING / DBE / C / HOURS / COMPOSITE EPN
LPRM-DET-26DAB PWR RGE DET ASSM CH 26D,A,B 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-27CDA PWR RGE DET ASSM CH 27C,D,A 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-31CDA PWR RGE DET ASSM CH 31C,D,A 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-32DAB PWR RGE DET ASSM CH 32D,A,B 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-33ABC PWR RGE DET ASSM CH 33A,B,C 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-34BCD PWR RGE DET ASSM CH 34B,C,D 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-35CDA PWR RGE DET ASSM CH 35C,D,A 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	13 G .17
LPRM-DET-36DAB PWR RGE DET ASSM CH 36D,A,B 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-37ABC PWR RGE DET ASSM CH 37A,B,C 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-41CDA PWR RGE DET ASSM CH 41C,D,A 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-42BCD PWR RGE DET ASSM CH 42B,C,D 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-43ABC PWR RGE DET ASSM CH 43A,B,C 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17
LPRM-DET-44DAB PWR RGE DET ASSM CH 44D,A,B 02C51	2	A	1 0 L	163C1154G1	C 501 IN RPV 807E163TC	X J	067002	W Y 04	11 G .17

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ROOM	ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS COMPOSITE EPN
LPRM-DET-45CDA LPRM DET 02C51	2	G080 A 1 0	L	163C11	C 501 DN RPV 807E163TC		X J	067002	W Y	04			13	G	.17
LPRM-DET-46BCD PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			11	G	.17
LPRM-DET-47ABC PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			13	G	.17
LPRM-DET-51ABC PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			11	G	.17
LPRM-DET-52BCD PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV #		X J	067002	W Y	04			11	G	.17
LPRM-DET-53CDA PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			11	G	.17
LPRM-DET-54DAB PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			11	G	.17
LPRM-DET-55ABC PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			11	G	.17
LPRM-DET-56BCD PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			11	G	.17
LPRM-DET-57CDA PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			13	G	.17
LPRM-DET-61ABC PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			11	G	.17
LPRM-DET-62DAB PWR RGE DET ASSM 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			11	G	.17
LPRM-DET-63CDA PWR RGE DET ASSM CH 63C,D,A 02C51	2	G080 A 1 0	L	163C1154G1	C 501 IN RPV 807E163TC		X J	067002	W Y	04			11	G	.17

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	MFG / MODEL / SAFETY FUNCTION	BLDG ELEV / DRAWING / A/E	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TH / HL / TEST ROOM	ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE	C	HOURS
LPRM-DET-64BCD PWR RGE DET ASSM CH 64B,C,D 02C51	2	A	1 0 L	G080 807E163TC	163C1154G1	C 501 IN RPV	X J 067002	W Y	04			11	G	.17
LPRM-DET-65ABC PWR RGE DET ASSM CH 65A,B,C 02C51	2	A	1 0 L	G080 807E163TC	163C1154G1	C 501 IN RPV	X J 067002	W Y	04			11	G	.17
LPRM-DET-66DAB PWR RGE DET ASSM CH 66D,A,B 02C51	2	A	1 0 L	G080 807E163TC	163C1154G1	C 501 IN RPV	X J 067002	W Y	04			13	G	.17
LPRM-DET-72DAB PWR RGE DET ASSM CH 72D,A,B 02C51	2	A	1 0 L	G080 807E163TC	163C1154G1	C 501 IN RPV	X J 067002	W Y	04			11	G	.17
LPRM-DET-73ABC PWR RGE DET ASSM CH 73A,B,C 02C51	2	A	1 0 L	G080 807E163TC	163C1154G1	C 501 IN RPV	X J 067002	W Y	04			11	G	.17
LPRM-DET-74BCD PWR RGE DET ASSM CH 74B C,D 02C51	2	A	1 0 L	G080 807E163TC	163C1154G1	C 501 IN RPV	X J 067002	W Y	04			11	G	.17
LPRM-DET-75CDA PWR RGE DET ASSM CH 75C,D,A 02C51	2	A	1 0 L	G080 807E163TC	163C1154G1	C 501 IN RPV	X J 067002	W Y	04			16	G	.17
MS-CONN-V22A/J1 CONN FOR POS SW-1 FOR VLV MS-V-22A 218	3	P	2 3 G1	C515 E539/21	N-11105-01	C 513 5 D AZ R27	X X 049008			06153 MS-V-22A+		14		4320
MS-CONN-V22A/J2 CONN FOR POS SW-2 FOR VLV MS-V-22A 218	3	P	2 3 G1	C515 E539/21	N-11105-01	C 513 5 D AZ R27	X X 049008			06153 MS-V-22A+		14		4320
MS-CONN-V22A/J3 CONN FOR POS SW-3 FOR VLV MS-V-22A 218	3	P	2 3 G1	C515 E539/21	N-11105-01	C 513 5 D AZ R27	X X 049008			06153 MS-V-22A+		14		4320
MS-CONN-V22A/J4 CONN FOR POS SW-4 FOR VLV MS-V-22A 218	3	P	2 3 G1	C515 E539/21	N-11105-01	C 513 5 D AZ R27	X X 049008			06153 MS-V-22A+		14		4320
MS-CONN-V22B/J1 CONN FOR POS SW-1 FOR VLV MS-V-22B 218	3	P	2 3 G1	C515 E539/21	N-11105-01	C 513 5 D AZ R27	X X 049008			06153 MS-V-22B+		14		4320
MS-CONN-V22B/J2 CONN FOR POS SW-2 FOR VLV MS-V-22B 218	3	P	2 3 G1	C515 E539/21	N-11105-01	C 513 15 D AZ R27	X X 049008			06153 MS-V-22B+		14		4320

EPN / CONTRACT	LEVEL	MFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E	QID ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ANL FO C ROOM	FREQ ACCURACY	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
MS-CONN-V22B/J3		C515		N-11105-01			X X	049008			06153 14 4320
CONN FOR POS SW-3 FOR VLV				MS-V-22B		C	513 15 D	AZ R27			MS-V-22B*
218	3	P	2	3 G1	E539/21						
MS-CONN-V22B/J4		C515		N-11105-01			X X	049008			06153 14 4320
CONN FOR POS SW-4 FOR VLV				MS-V-22B		C	513 15 D	AZ R27			MS-V-22B*
218	3	P	2	3 G1	E539/21						
MS-CONN-V22C/J1		C515		N-11105-01			X X	049008			06153 14 4320
CONN FOR POS SW-1 FOR VLV				MS-V-22C		C	513 345 D	AZ R27			MS-V-22C*
218	3	P	2	3 G1	E539/21						
MS-CONN-V22C/J2		C515		N-11105-01			X X	049008			06153 14 4320
CONN FOR POS SW-2 FOR VLV				MS-V-22C		C	513 345 D	AZ R27			MS-V-22C*
218	3	P	2	3 G1	E539/21						
MS-CONN-V22C/J3		C515		N-11105-01			X X	049008			06153 14 4320
CONN FOR POS SW-3 FOR VLV				MS-V-22C		C	513 345 D	AZ R27			MS-V-22C*
218	3	P	2	3 G1	E539/21						
MS-CONN-V22C/J4		C515		N-11105-01			X X	049008			06153 14 4320
CONN FOR POS SW-4 FOR VLV				MS-V-22C		C	513 345 D	AZ R27			MS-V-22C*
218	3	P	2	3 G1	E539/21						
MS-CONN-V22D/J1		C515		N-11105-01			X X	049008			06153 14 4320
CONN FOR POS SW-1 FOR VLV				MS-V-22D		C	513 355 D	AZ R27			MS-V-22D*
218	3	P	2	3 G1	E539/21						
MS-CONN-V22D/J2		C515		N-11105-01			X X	049008			06153 14 4320
CONN FOR POS SW-2 FOR VLV				MS-V-22D		C	513 355 D	AZ R27			MS-V-22D*
218	3	P	2	3 G1	E539/21						
MS-CONN-V22D/J3		C515		N-11105-01			X X	049008			06153 14 4320
CONN FOR POS SW-3 FOR VLV				MS-V-22D		C	513 355 D	AZ R27			MS-V-22D*
218	3	P	2	3 G1	E539/21						
MS-CONN-V22D/J4		C515		N-11101-01			X X	049008			06153 14 4320
CONN FOR POS SW-4 FOR VLV				MS-V-22D		C	513 355 D	AZ R27			MS-V-22D*
218	3	P	2	3 G1	E539/21						
MS-CONN-V28A/J1		C515		N-11105-01			X X	049008			06153 04 4320
CONN FOR POS SW-1 FOR VLV				MS-V-28A		R	513 H.7/5.9				MS-V-28A*
218	3	P	2	3 G1	E539/21						
MS-CONN-V28A/J2		C515		N-11105-01			X X	049008			06153 04 4320
CONN FOR POS SW-2 FOR VLV				MS-V-28A		R	513 H.7/5.9				MS-V-28A*
218	3	P	2	3 G1	E539/21						
MS-CONN-V28A/J3		C515		N-11105-01			X X	049008			06153 05 4320
CONN FOR POS SW-3 FOR VLV				MS-V-28A		R	513 H.7/5.9				MS-V-28A*
218	3	P	2	3 G1	E539/21						

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
MS-CONN-V28B/J1 CONN FOR POS SW-1 FOR VLV 218	3	P	2	3 G1	C515 N-11105-01 MS-V-28B	R 513 E539/21	X X H.7/5.8	049008			06153 04 MS-V-28B+	4320
MS-CONN-V28B/J2 CONN FOR POS SW-2 FOR VLV 218	3	P	2	3 G1	C515 N-11105-01 MS-V-28B	R 513 E539/21	X X H.7/5.8	049008			06153 04 MS-V-28B+	4320
MS-CONN-V28B/J3 CONN FOR POS SW-3 FOR VLV 218	3	P	2	3 G1	C515 N-11105-01 MS-V-28B	R 513 E539/21	X X H.7/5.8	049008			06153 04 MS-V-28B+	4320
MS-CONN-V28C/J1 CONN FOR POS SW-1 FOR VLV 218	3	P	2	3 G1	C515 N-11105-01 MS-V-28C	R 513 E539/21	X X H.7/5.6	049008			06153 04 MS-V-28C+	4320
MS-CONN-V28C/J2 CONN FOR POS SW-2 FOR VLV 218	3	P	2	3 G1	C515 N-11105-01 MS-V-28C	R 513 E539/21	X X H.7/5.6	049008			06153 04 MS-V-28C+	4320
MS-CONN-V28C/J3 CONN FOR POS SW-3 FOR VLV 218	3	P	2	3 G1	C515 N-11105-01 MS-V-28C	R 513 E539/21	X X H.7/5.6	049008			06153 04 MS-V-28C+	4320
MS-CONN-V28D/J1 CONN FOR POS SW-1 FOR VLV 218	3	P	2	3 G1	C515 N-11105-01 MS-V-28D	R 513 E539/21	X X H.7/6.1	049008			06153 04 MS-V-28D+	4320
MS-CONN-V28D/J2 CONN FOR POS SW-2 FOR VLV 218	3	P	2	3 G1	C515 N-11105-01 MS-V-28D	R 513 E539/21	X X H.7/6.1	049008			06153 04 MS-V-28D+	4320
MS-CONN-V28D/J3 CONN FOR POS SW-3 FOR VLV 218	3	P	2	3 G1	C515 N-11105-01 MS-V-28D	R 513 E539/21	X X H.7/6.1	049008			06153 04 MS-V-28D+	4320
MS-DPIS-11A PCIS HI STM FLOW LINE D - 02H	3	A	1	0 B1	B080 288A H22-P015	R 506 H529	Y X H6/7.3 D3	086001 R R41	N 121 R305	09	E-IR-P015+	.17
MS-DPIS-11B PCIS HI STM FLOW LINE D 02H	3	A	1	0 B1,I,F	B080 288A	R 475 H529	Y X H.5/7.9 D3	086001 R R33	N 121 R206	09	E-IR-P022+	.17
MS-DPIS-11C PCIS HI STM FLOW LINE D 02E31	3	A	1	0 B1,I,F	B080 288A	R 475 H529	Y X H.5/4.5 C3	086001 R R33	N 121 R206	09	E-IR-P010+	.17
MS-DPIS-11D PCIS HI STM FLOW LINE D 02H	3	A	1	0 B1,I,F	B080 288A	R 505 H529	Y X L.9/3.7 C3	086001 R R43	N 121 R305	09	E-IR-P025+	.17

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
MS-DPIS-810A PCIS HI STM FLOW LINE C 58	3	A	1 0	B1,I,F	B080 288A R 501 M529	Y X H.7/7.3 E3	086001 R41				05253 11 G E-IR-P015+	.17
MS-DPIS-810B PCIS HI STM FLOW LINE C 58	3	A	1 0	B1,I,F	B080 288A R 471 M529	Y X M.5/7.9 E3	086001 R33				05253 11 G E-IR-P022+	.17
MS-DPIS-810C PCIS HI STM FLOW LINE C 58	3	A	1 0	B1,I,F	B080 288A R 471 M529	Y X M.5/4.5 E3	086001 R33				05253 01 G E-IR-P010+	.17
MS-DPIS-810D PCIS HI STM FLOW LINE C 58	3	A	1 0	B1,I,F	B080 288A R 505 M529	Y X L.9/3.7 E3	086001 R43				05253 01 G E-IR-P025+	.17
MS-DPIS-8A PCIS HI STM FLOW LINE A - H22-P015 02E31	3	A	1 0	B1,I,F	B080 288A R 505 M529	Y X H.6/7.3 E14	086001 R R41	N 121 R305		09	E-IR-P015+	.17
MS-DPIS-8B PCIS HI STM FLOW LINE A - H22-P022 02E	3	A	1 0	B1,I,F	B080 288A R 475 M529	Y X M.5/7.9 E14	086001 R R33	N 121 R206		09	E-IR-P022+	.17
MS-DPIS-8C PCIS HI STM FLOW LINE A 02E31	3	A	1 0	B1,I,F	B080 288A R 475 M529	Y X M.5/4.5 E14	086001 R R33	N 121 R206		09	E-IR-P010+	.17
MS-DPIS-8D PCIS HI STM FLOW LINE A 02E31	3	A	1 0	B1,I,F	B080 288A R 505 M529	Y X L.9/3.6 E14	086001 R R43	N 121 R305		09	E-IR-P025+	.17
MS-DPIS-9A PCIS HI STM LINE A 02E31	3	A	1 0	B1,I,F	B080 288A H22-P015 R 504 M529	Y X H.6/7.3 D14	086001 R R41	N 121 R305		09	E-IR-P015+	.17
MS-DPIS-9B PCIS HI STM FLOW LINE B 02E31	3	A	1 0	B1	B080 288A H22-P022 R 475 M529	Y X H.6/8.1 D14	086001 R R53	N 121 R404		09	E-IR-P022+	.17
MS-DPIS-9C PCIS HI STM FLOW LINE B 02E31	3	A	1 0	B1	B080 288A R 475 M529	Y X M.5/4.5 C14	086001 R R33	N 121 R206		09	E-IR-P010+	.17
MS-DPIS-9D PCIS HI STM FLOW LINE B 02E31	3	A	1 0	B1	B080 288A R 505 M529	Y X L.9/3.6 C14	086001 R R43	N 121 R305		09	E-IR-P025+	.17
MS-FT-33A MS FLOW - - H22-P010 02	2	P	2 3	G	B080 50555111BAA4PCA R 471 M530	Y X M.5/4.5 H12	156003 R33				F-IR-P010+	4320

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG	ELEV	DRAWING	STATUS	S	E	QID / ZONE	TM	HL	TEST	ANL	FO	C	FREQ	ACCURACY	AGING	DBE	C	HOURS	COMPOSITE EPN
MS-FT-33B MS FLOW - - H22-P009 02B22	2	P	2 3	G	G080 50555111BNAA4WCA M530	R	471	J.6/8.1 H6		Y	X	156003 C34									E-IR-P009+				4320
MS-FT-33C MS FLOW - - H22-P010 02B22	2	P	2 3	G	G080 50555111BNAA4EAH M530	R	471	M.5/4.5 H13		Y	X	156003 R33									E-IR-P010+				4320
MS-FT-33D MS FLOW - - H22-P009 02B22	2	P	2 3	G	G080 50555111BNAA4WCH M530	R	471	J.6/8.1 H5		Y	X	156003 C34									E-IR-P009+				4320
MS-LIS-100A REACTOR HIGH LEVEL 02	2	A	1 0	C	B080 288A	R	526	J.5/7.2		Y	X	086001									E-IR-P004+	06153	12	G	24	
MS-LIS-100B REACTOR HIGH LEVEL 02	2	A	1 0	C	B080 288A	R	526	J.5/7.2		Y	X	086001									E-IR-P004+	06153	12	G	24	
MS-LIS-24A REACTOR LEVEL 3 AND 8 TRIPS 02B	2	A	1 0	A,B1,C	B080 288A M529	R	526	J.5/7.2 H12		Y	X	198001 R51	R	N	121				09		E-IR-P004+				24	
MS-LIS-24B RPV LEVEL 3 & 8 TRIPS 02B	2	A	1 0	A,B1	B080 288A H22-P027 M529	R	526	J.5/4.7 J5		X	X	198001 R53	R	N	121				09		E-IR-P026+				24	
MS-LIS-24C RPV LEVEL 3& 8 TRIPS 02B	2	A	1 0	A,B1,C	B080 288A H22-P005 M529	R	526	N.7/5.8 H5		Y	X	198001 R53	R	N	121				09		E-IR-P005+				24	
MS-LIS-24D RPV LEVEL 3 & 8 TRIPS 02B	2	A	1 0	A,B1	B080 288A H22-P026 M529	R	526	M.5/7.9 J12		X	X	198001 R52	R	N	121				09		E-IR-P022+				24	
MS-LIS-31A VESSEL LEVEL FOR HPCS 02B	2	A	1 0	C	B080 288A H22-P004 M529	R	526	J.5/7.1 H14		Y	X	198001 R51	R	N	121				09		E-IR-P004+				24	
MS-LIS-31B VESSEL LEVEL FOR HPCS 02B	2	A	1 0	C	B080 288A H22-P005 M529	R	526	N.7/5.6 H4		Y	X	198001 R53	R	N	121				09		E-IR-P005+				24	
MS-LIS-31C VESSEL LEVEL FOR HPCS 02B	2	A	1 0	C	B080 288A H22-P004 M529	R	526	J.5/7.1 H14		Y	X	198001 R51	R	N	121				09		E-IR-P004+				24	
MS-LIS-31D VESSEL LEVEL FOR HPCS H22-P005 02B	2	A	1 0	C	B080 288A M529	R	526	N.7/5.8 H4		Y	X	198001 R51	P	N	121				09		E-IR-P005+				24	

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / TM / ZONE	***SEISMIC (S) PARAMETERS*** HL / TEST / ROOM	ANL / FO / C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / DBE / C / COMPOSITE EPN	HOURS
MS-LIS-36A MS LEVEL 02B22	2	P	2 0 G		Y010 4418C H22-P026 M529	R 526	A X J5/4.7 J14	198002 W R52	N 14	00	33+	E-IR-P026+	24
MS-LIS-36B MS LEVEL 02B22	2	P	2 0 G		Y010 4418C H22-P027 M529	R 526	A X M.8/6.6 J14	198002 R52	N 14	00	33+	E-IR-P027+	24
MS-LIS-36C MS LEVEL 02B22	2	P	2 0 G		Y010 4418C H22-P026 M529	R 526	A X M.8/6.6 H4	198002 F R53	N 14	00	33+	E-IR-P026+	24
MS-LIS-36D MS LEVEL 02B22	2	P	2 0 G		Y010 4418C H22-P027 M529	R 527	Y X M.8/6.6 H4	198002 F R53	N 14	00	33+	E-IR-P027+	24
MS-LIS-37A RPV LEVEL 1 & 2 TRIP 02B	2	A	1 0 A		B080 288A H22-P026 M529	R 526	X X J.7/4.7 J13	198001 R R52	N 121 R404		09	E-IR-P026+	24
MS-LIS-37B RPV LEVEL 1 & 2 TRIP 02B	2	A	1 0 A		B080 288A H22-P027 M529	R 526	X X M.8/6.6 H4	198001 R R53	N 121 R404		09	E-IR-P027+	24
MS-LIS-37C RPV LEVEL 1 & 2 TRIP 02B	2	A	1 0 A		B080 288A H22-P026 M529	R 526	X X J.7/4.7 J13	198001 R R52	N 121 R404		09	E-IR-P026+	24
MS-LIS-37D RPV LEVEL 1 & 2 TRIP 02B	2	A	1 0 A		B080 288A H22-P027 M529	R 526	X X M.7/6.8 H4	198001 R R53	N 121 R404		09	E-IR-P027+	24
MS-LIS-38A RPV LEVEL 3 TRIP 02B22	2	A	1 0 A		B080 288A H22-P026 M529	R 524	X X J.9/4.5 J12	198001 R R52	N 121 R404		09	E-IR-P026+	24
MS-LIS-38B RPV LEVEL 3 TRIP 02B	2	A	1 0 A		B080 288A H22-P027 M529	R 526	X X M.7/6.8 J5	198001 R R53	N 121 R404		09	E-IR-P027+	24
MS-LITS-26A RPV LEVEL 2 TRIP H22-P004 02B22	2	A	1 0 A		B080 288A M529	R 530	Y J J.0/4.5 H13	199001 F R51	N 14 R404	00	33+	04153 10 S E-IR-P004+	4320
MS-LITS-26B RPV LEVEL 2 TRIP 02B22	2	A	1 0 A		B080 760 M529	R 526	Y X J.7/4.8 H4	199001 F R53	N 14 R404	00	33+	04153 10 S E-IR-P026+	24
MS-LITS-26C RPV LEVEL 2 TRIP 02B22	2	A	1 0 A		B080 760 H22-P005 M529	R 526	A R N.7/5.7 H4	199001 R53	N 14 R404	00	33+	04153 10 S E-IR-P005+	24

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
MS-LITS-26D RPV LEVEL 2 TRIP 02B	2	A	1 0	A	B080 H22-P026 M529	R 526 M.7/6.8 J13	Y R	199001 R53	N	14 00	33+	04153 10 S 4320 E-IR-P027+
MS-LITS-44A MS LEVEL TRIP 02B22	2	A	1 0	I	B080 H22-P010 M530	R 475 M.7/4.7 H14	Y P	199001 R33				04153 10 P 4320 E-IR-P010+
MS-LITS-44B MS LEVEL TRIP 02B22	2	A	1 0	I	B080 H22-P009 M530	R 475 J.7/8.0 G6	Y R	199001 C34	N	14 00	33+	04153 10 S 4320 E-IR-P009+
MS-LT-27 MS LEVEL 02H	2	P	2 0	G	B040 H22-P027 M529	R 523 M.8/6.6 J4	Y X	209005 R53	R N			05153 10 G 4320 E-IR-P027+
MS-MO-16 MOTOR OPERATOR MS-V-16 41A	2	A	1 3	B1,F	L200 SMB-000-7.5 M529	C 504 0 D AZ R37 B13	A X	221001 P C45	Y 114		33+	MS-V-16+ 4320
MS-MO-19 0.36HP 3.8A MOTOR OPERATOR MS-V-19 41A	2	A	1 3	B1,F	L200 SMB-000-5 M529	R 504 M.8/6.2 B14	A X	221001 P R42	N 114 R310		33+	MS-V-19+ 4320
MS-MO-67A .5 HP MOTOR OPERATOR FOR MS-V-67A 215	2	A	1 3	B1,F	L200 SMB-000-5 M529	R 505 M.2/5.9 F13	A X	221001 P R42	114 R310		33+	MS-V-67A+ 24
MS-MO-67B .5 HP MOTOR OPERATOR FOR MS-V-67B 215	2	A	1 3	B1,F	L200 SMB-000-5 M529	R 505 M.2/5.3 D13	A X	221001 P R42	114 R310		33+	MS-V-67B+ 24
MS-MO-67C .5 HP MOTOR OPERATOR FOR MS-V-67C 215	2	A	1 3	B1,F	L200 SMB-000-5 M529	R 505 M.2/6.1 F4	A X	221001 P R41	114 R310		33+	MS-V-67C+ 24
MS-MO-67D .5 HP MOTOR OPERATOR FOR MS-V-67D 215	2	A	1 3	B1,F	L200 SMB-000-5 M529	R 505 M.2/6.1 D4	A X	221001 P R41	114 R310		33+	MS-V-67D+ 24
MS-POE-1A ACOUSTIC POS SENSOR RV 1A C0442	2	A	1 3	I	T068 BBN-424-ISO M529	C 547 24 D AZ F11	X X	246001 C55				06153 11 4320
MS-POE-1B ACOUSTIC POS SENSOR RV1B C0442	2	A	1 3	I	T068 BBN-424-ISO M529	C 547 45 D AZ D11	X X	246001 C55				06153 11 4320
MS-POE-1C ACOUSTIC POS SENSOR RV1C C0442	2	A	1 3	I	T068 BBN-424-ISO M529	C 547 313 D AZ F6	X X	246001 C54				06153 11 4320

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	MFG / SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE C / HOURS
MS-POE-1D ACOUSTIC POS SENSOR RV1D C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 333 D AZ E7	X X	246001 C54			06153	11 4320
MS-POE-2A ACOUSTIC POS SENSOR RV2A C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 35 F10	X X	246001 C55			06153	11 4320
MS-POE-2B ACOUSTIC POS SENSOR RV2B C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 60 D AZ D10	X X	246001 C55			06153	11 4320
MS-POE-2C ACOUSTIC POS SENSOR RV2C C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 305 D AZ F7	X X	246001 C54			06153	11 4320
MS-POE-2D ACOUSTIC POS SENSOR RV2D C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 321 D AZ E7	X X	246001 C54			06153	11 4320
MS-POE-3A ACOUSTIC POS SENSOR RV3A C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 45 D AZ F9	X X	246001 C55			06153	11 4320
MS-POE-3B ACOUSTIC POS SENSOR RV3B C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 67 D AZ D10	X X	246001 C55			06153	11 4320
MS-POE-3C ACOUSTIC POS SENSOR RV3C C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 293 D AZ E8	X X	246001 C54			06153	11 4320
MS-POE-3D ACOUSTIC POS SENSOR RV3D C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 315 D AZ E8	X X	246001 C54			06153	11 4320
MS-POE-4A ACOUSTIC POS SENSOR RV4A C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 60 D AZ F9	X X	246001 C55			06153	11 4320
MS-POE-4B ACOUSTIC POS SENSOR RV4B C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 75 D AZ D9	X X	246001 C55			06153	11 4320
MS-POE-4C ACOUSTIC POS SENSOR RV4C C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 288 D AZ F8	X X	246001 C54			06153	11 4320
MS-POE-4D ACOUSTIC POS SENSOR RV4D C0442	2	A	1 3 I	T068 BBN-424-ISO	M529	C 547 305 D AZ F8	X X	246001 C54			06153	11 4320

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / A/E DRAWING	STATUS S E DETAIL / A/E ZONE	QID / ZONE	TH HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. AGING / COMPOSITE EPN	(E) PARAMETERS* DBE C / HOURS
MS-POE-5B ACOUSTIC POS SENSOR RV5B C0442	2	A	1 3 I		T068 M529	C 547 80	X X 246001 D AZ E9	C55			06153	11 4320
MS-POE-5C ACOUSTIC POS SENSOR RV5C C0442	2	A	1 3 I		T068 M529	C 547 279	X X 246001 D AZ F8	C54			06153	11 4320
MS-POS-V/22A/1 POS SW-1 FOR VLV MS-V-22A 028	2	A	1 3 A,I		N007 M529	C 513 5D	N P 200015 AZ R27 F12			MS-V-22A+	06153	11 P 4320
MS-POS-V/22A/2 POS SW-2 FOR VLV MS-V-22A 028	2	A	1 3 A,I		N007 M529	C 513 5D	N P 200015 AZ R27 F12			MS-V-22A+	14	P 4320
MS-POS-V/22A/3 POS SW-3 FOR VLV MS-V-22A 028	2	A	1 3 A,I		N007 M529	C 513 5D	N P 200015 AZ R27 F12			MS-V-22A+	14	P 4320
MS-POS-V/22A/4 POS SW-4 FOR VLV MS-V-22A 028	2	A	1 3 A,I		N007 M529	C 513 5D	N P 200015 AZ R27 F12			MS-V-22A+	14	S 4320
MS-POS-V/22B/1 POS SWITCH-1 FOR VLV MS-V-22B 028	2	A	1 3 A,I		N007 M529	C 513 315	B P 200015 D AZ R27 E12			MS-V-22B+	06153	11 P 4320
MS-POS-V/22B/2 POS SWITCH-2 FOR VLV MS-V-22B 028	2	A	1 3 A,I		N007 M529	C 513 315	B P 200015 D AZ R27 E12			MS-V-22B+	14	P 4320
MS-POS-V/22B/3 POS SWITCH-3 FOR VLV MS-V-22B 028	2	A	1 3 A,I		N007 M529	C 513 315	B P 200015 D AZ R27 E12			MS-V-22B+	14	P 4320
MS-POS-V/22B/4 POS SWITCH-4 FOR VLV MS-V-22B 028	2	A	1 3 A,I		N007 M529	C 513 315	B P 200015 D AZ R27 E12			MS-V-22B+	14	S 4320
MS-POS-V/22C/1 POS SWITCH-1 FOR VLV MS-V-22C 028	2	A	1 3 A,I		N007 M529	C 513 345	N P 200015 D AZ R27 F5			MS-V-22C+	06153	11 P 4320
MS-POS-V/22C/2 POS SWITCH-2 FOR VLV MS-V-22C 028	2	A	1 3 A,I		N007 M529	C 513 345	N P 200015 D AZ R27 F5			MS-V-22C+	14	P 4320
MS-POS-V/22C/3 POS SWITCH-3 FOR VLV MS-V-22C 028	2	A	1 3 A,I		N007 M529	C 513 345	N P 200015 D AZ R27 F5			MS-V-22C+	14	P 4320

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / ROOM	HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE	C	HOURS
MS-POS-V/22C/4		N007		EA740-86010			N P	200015					14	S	4320
POS SWITCH-4 FOR VLV MS-V-22C						C 513 345 D AZ R27						MS-V-22C+			
02B	2	A	1 3	A+I	M529		E5								
MS-POS-V/22D/1		N007		EA740-86010			B P	200015					14	P	4320
POS SWITCH-1 FOR VLV MS-V-22D						C 513 355 D AZ R27						MS-V-22D+			
02B	2	A	1 3	A+I	M529		E5								
MS-POS-V/22D/2		N007		EA740-86010			B P	200015					14	P	4320
POS SWITCH-2 FOR VLV MS-V-22D						C 513 355 D AZ R27						MS-V-22D+			
02B	2	A	1 3	A+I	M529		E5								
MS-POS-V/22D/3		N007		EA740-86010			B P	200015					14	P	4320
POS SWITCH-3 FOR VLV MS-V-22D						C 513 355 D AZ R27						MS-V-22D+			
02B	2	A	1 3	A+I	M529		E5								
MS-POS-V/22D/4		N007		EA740-86010			B P	200015					14	S	4320
POS SWITCH-4 FOR VLV MS-V-22D						C 513 355 D AZ R27						MS-V-22D+			
02B	2	A	1 3	A+I	M529		E5								
MS-POS-V/28A/1		N007		EA740-86010			B P	200015				06153	11	P	4320
POS SWITCH-1 FOR VLV MS-V-28A						R 513 H.7/5.9						MS-V-28A+			
02B	2	A	1 3	A+I	M529		F13								
MS-POS-V/28A/2		N007		EA740-86010			B P	200015					14	P	4320
POS SWITCH-2 FOR VLV MS-V-28A						R 513 H.7/5.9						MS-V-28A+			
02B	2	A	1 3	A+I	M529		F13								
MS-POS-V/28A/3		N007		EA740-86010			B P	200015					14	P	4320
POS SWITCH-3 FOR VLV MS-V-28A						R 513 H.7/5.9						MS-V-28A+			
02B	2	A	1 3	A+I	M529		F13								
MS-POS-V/28B/1		N007		EA740-86010			B P	200015				06153	11	P	4320
POS SWITCH-1 FOR VLV MS-V-28B						R 513 H.7/5.8						MS-V-28B+			
02B	2	A	1 3	A+I	M529		E13								
MS-POS-V/28B/2		N007		EA740-86010			B P	200015					14	P	4320
POS SWITCH-2 FOR VLV MS-V-28B						R 513 H.7/5.8						MS-V-28B+			
02B	2	A	1 3	A+I	M529		E13								
MS-POS-V/28B/3		N007		EA740-86010			B P	200015					14	P	4320
POS SWITCH-3 FOR VLV MS-V-28B						R 513 H.7/5.8						MS-V-28B+			
02B	2	A	1 3	A+I	M529		E13								
MS-POS-V/28C/1		N007		EA740-86010			B P	200015				06153	11	P	4320
POS SWITCH-1 FOR VLV MS-V-28C						R 513 H.7/5.6						MS-V-28C+			
02B	2	A	1 3	A+I	M529		F4								
MS-POS-V/28C/2		N007		EA740-86010			B P	200015					14	P	4320
POS SWITCH-2 FOR VLV MS-V-28C						R 513 H.7/5.6						MS-V-28C+			
02B	2	A	1 3	A+I	M529		F4								

EPN / DESCRIPTION	MFG	MODEL	STATUS	***SEISMIC (S) PARAMETERS***	*ENV. (E) PARAMETERS*
CONTRACT LEVEL EC USE SAFETY FUNCTION		BLDG ELEV A/E DRAWING	S E QID DETAIL A/E ZONE	TM HL TEST ANL FO C FREQ ZONE ROOM ACCURACY	AGING DBE C HOURS COMPOSITE EPN
MS-POS-V/28C/3	N007	EA740-86010	B P 200015		14 P 4320
POS SWITCH-3 FOR VLV MS-V-28C		R 513 H.7/5.6		MS-V-28C+	
02B 2 A 1 3 A,I		M529	F4		
MS-POS-V/28D/1	N007	EA740-86010	B P 200015		06153 11 P 4320
POS SWITCH-1 FOR VLV MS-V-28D		R 513 H.7/6.1		MS-V-28D+	
02B 2 A 1 3 A,I		M529	E4		
MS-POS-V/28D/2	N007	EA740-86010	B P 200015		14 P 4320
POS SWITCH-2 FOR VLV MS-V-28D		R 513 H.7/6.1		MS-V-28D+	
02B 2 A 1 3 A,I		M529	E4		
MS-POS-V/28D/3	N007	EA740-86010	B P 200015		14 P 4320
POS SWITCH-3 FOR VLV MS-V-28D		R 513 H.7/6.1		MS-V-28D+	
02B 2 A 1 3 A,I		M529	E4		
MS-POT-1A	T068	504B	Z X 249002	06153	11 4320
PREAMP/ACOUSTIC POS SENSOR 1A		C 547 24 D AZ	C55		
C0442 3 A 1 3 I		E529	F11		
MS-POT-1B	T068	504B	Z X 249002	06153	11 4320
PREAMP/ACOUSTIC POS SENSOR 1B		C 547 45 D AZ	C55		
C0442 3 A 1 3 I		E529	D11		
MS-POT-1C	T068	504B	Z X 249002	06153	11 4320
PREAMP/ACOUSTIC POS SENSOR 1C		C 547 313 D AZ	C54		
C0442 3 A 1 3 I		M529	F6		
MS-POT-1D	T068	504B	Z X 249002	06153	11 4320
PREAMP/ACOUSTIC POS SENSOR 1D		C 547 333 D AZ	C54		
C0442 3 A 1 3 I		M529	E7		
MS-POT-2A	T068	504B	Z X 249002	06153	11 4320
PREAMP/ACOUSTIC POS SENSOR 2A		C 547 35 D AZ	C55		
C0442 3 A 1 3 I		M529	F10		
MS-POT-2B	T068	504B	Z X 249002	06153	11 4320
PREAMP/ACOUSTIC POS SENSOR 2B		C 547 60 D AZ	C55		
C0442 3 A 1 3 I		M529	D10		
MS-POT-2C	T068	504B	Z X 249002	06153	11 4320
PREAMP/ACOUSTIC POS SENSOR 2C		C 547 305 D AZ	C54		
C0442 3 A 1 3 I		M529	F7		
MS-POT-2D	T068	504B	Z X 249002	06153	11 4320
PREAMP/ACOUSTIC POS SENSOR 2D		C 547 321 D AZ	C54		
C0442 3 A 1 3 I		M529	F7		
MS-POT-3A	T068	504B	Z X 249002	06153	11 4320
PREAMP/ACOUSTIC POS SENSOR 3A		C 547 45 D AZ	C55		
C0442 3 A 1 3 I		M529	F9		

EPN / DESCRIPTION	PFG	MODEL	STATUS	***SEISMIC (S) PARAMETERS***	*ENV. (E) PARAMETERS*
CONTRACT LEVEL EC USE SAFETY FUNCTION	BLDG ELEV A/E DRAWING		S E DETAIL A/E ZONE	QID TH HL TEST ANL FO C FREQ ZONE ROOM ACCURACY	AGING DBE C HOURS COMPOSITE EPN
MS-POT-3B	T068	504B	Z X	249002	06153 11 4320
PREAMP/ACOUSTIC POS SENSOR 3B	C	547 67 D AZ		C55	
C0442 3 A 1 3 I	M529		D10		
MS-POT-3C	T068	504B	Z X	249002	06153 11 4320
PREAMP/ACOUSTIC POS SENSOR 3C	C	547 293 D AZ		C54	
C0442 3 A 1 3 I	M529		E8		
MS-POT-3D	T068	504B	Z X	249002	06153 11 4320
PREAMP/ACOUSTIC POS SENSOR 3D	C	547 293 D AZ		C54	
C0442 3 A 1 3 I	M529		E8		
MS-POT-4A	T068	504B	Z X	249002	06153 11 4320
PREAMP/ACOUSTIC POS SENSOR 4A	C	547 60 D AZ		C55	
C0442 3 A 1 3 I	M529		F9		
MS-POT-4B	T068	504B	Z X	249002	06153 11 4320
PREAMP/ACOUSTIC POS SENSOR 4B	C	547 7 75 D AZ		C55	
C0442 3 A 1 3 I	M529		D9		
MS-POT-4C	T068	504B	Z X	249002	06153 11 4320
PREAMP/ACOUSTIC POS SENSOR 4C	C	547 288 D AZ		C54	
C0442 3 A 1 3 I	M529		F8		
MS-POT-4D	T068	504B	Z X	249002	06153 11 4320
PREAMP/ACOUSTIC POS SENSOR 4D	C	547 305 D AZ		C54	
C0442 3 A 1 3 I	M529		E8		
MS-POT-5B	T068	504B	Z X	249002	06153 11 4320
PREAMP/ACOUSTIC POS SENSOR 5B	C	522		C55	
C0442 3 A 1 3 I	M529				
MS-POT-5C	T068	504B	Z X	249002	06153 13 4320
PREAMP/ACOUSTIC POS SENSOR 5C	C	547 279 D AZ		C54	
C0442 3 A 1 3 I	E529		F8		
MS-PS-20A	P069	B1T-N12SS	Y X	256002 R N	24
MAIN STEAM ISO. VLV SCRAM INTERLOK	R	524 J.5/7.2		R51	E-IR-P004+
02B22 2 A 1 0 A	M529		N12		
MS-PS-20B	P069	B1T-N12SS	Y X	256002 R N	24
MS ISO VLV SCRAM INTLK	R	526 J.8/4.7		R53 R404	E-IR-P027+
02B22 2 A 1 0 A	M529		J5		
MS-PS-20C	P069	B1T-N12SS	Y X	256002 R N	24
MS ISO VLV SCRAM INTLK	R	524 N.8/5.8		R53 R404	E-IR-P005+
02B22 2 A 1 0 A	M529		N5		
MS-PS-20D	P069	B1T-N12SS	Y X	256002 R N	24
MS ISO VLV SCRAM INTLK	R	524 N.8/6.6		R52 R404	E-IR-P026+
02B22 2 A 1 0 A	M529		J12		

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV / DRAWING	A/E	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
MS-PS-23A HIGH VESSEL PRESSURE 02B22	2	A	1 0 A	B1T-M12SS	B069 M529	R 524		Y X J5/7.1 H13	256002 R51	R R404	N		E-IR-P004+	24
MS-PS-23B HIGH VESSEL PRESSURE 02B22	2	A	1 0 A	B1T-M12SS	B069 M529	R 524		Y X J.8/4.7 J5	256002 R53	R R404	N		E-IR-P026+	24
MS-PS-23C HIGH VESSEL PRESSURE 02B22	2	A	1 0 A	B1T-M12SS	B069 M22-P005 M529	R 526		Y X N.8/5.8 H5	256002 R53	R R404	N		E-IR-P005+	24
MS-PS-23D HIGH VESSEL PRESSURE 02B22	2	A	1 0 A	B1T-M12SS	B069 M22-P026 M529	R 524		Y X J.9/4.5 J13	256002 R52	R R404	N		E-IR-P026+	24
MS-PS-39A RELIEF VLV PRESS SWITCH 02B22	2	P	2 0 C	B1T-M12SS-GE	B069 M529	R 524		Y X J.9/4.5 J13	256002 R52	R R404	N		E-IR-P026+	4320
MS-PS-39B RELIEF VLV PRESS SWITCH 02B22	2	P	2 0 C	B1T-M12SS-GE	B069 M529	R 524		A X J.9/4.5 J13	256002 R52	R R404	N		E-IR-P026+	4320
MS-PS-39C RELIEF VLV PRESS SWITCH 02B22	2	P	2 0 C	B1T-M12SS-GE	B069 M529	R 524		A X J.9/4.5 J13	256002 R52	R R404	N		E-IR-P026+	4320
MS-PS-39D RELIEF VLV PRESS SWITCH 02B22	2	P	2 0 C	B1T-M12SS-GE	B069 M529	R 524		A X J.9/4.5 J13	256002 R52	R R404	N		E-IR-P026+	4320
MS-PS-39E RELIEF VLV PRESS SWITCH 02B22	2	P	2 0 C	B1T-M12SS-GE	B069 M530	R 524		A X J.9/4.5 J15	256002 R52	R R404	N		E-IR-P026+	4320
MS-PS-39F RELIEF VLV PRESS SWITCH 02B22	2	P	2 0 C	B1T-M12SS-GE	B069 M529	R 524		A X J.9/4.5 J13	256002 R52	R R404	N		E-IR-P026+	4320
MS-PS-39G RELIEF VLV PRESS SWITCH 02B22	2	P	2 0 C	B1T-M12SS-GE	B069 M529	R 524		A X J.9/4.5 J13	256002 R52	R R404	N		E-IR-P026+	4320
MS-PS-39H RELIEF VLV PRESS SWITCH 02B	2	P	2 0 C	B1T-M12SS-GE	B069 M529	R 526		Y X J.9/4.5 J13	256002 R52	R R404	N		E-IR-P026+	4320
MS-PS-39J RELIEF VLV PRESS SWITCH 02B22	2	P	2 0 C	B1T-M12SS-GE	B069 M529	R 526		Y X J.9/4.5 J13	256002 R52	R R404	N		E-IR-P026+	4320

EPN / DESCRIPTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E DETAIL / A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
CONTRACT LEVEL EC USE SAFETY FUNCTION	A/E								
MS-PS-39K	B069 B1T-M12SS-GE		A X	256002	R N				4320
RELIEF VLV PRESS SWITCH		R 526	J.9/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 C	M529		J13						
MS-PS-39L	B069 B1T-M12SS-GE		A X	256002	R N				4320
RELIEF VLV PRESS SWITCH		R 526	J.9/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 C	M529		J13						
MS-PS-39M	B069 B1T-M12SS-GE		A X	256002	R N				4320
RELIEF VLV PRESSURE SWCH H22-P26		R 524	J.9/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 C	M529		J13						
MS-PS-39N	B069 B1T-M12SS-GE		Y X	256002	R N				4320
RELIEF VLV PRESS SWITCH		R 524	J.9/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 C	M529		J13						
MS-PS-39P	B069 B1T-M12SS-GE		Y X	256002	R N				4320
RELIEF VLV PRESS SWITCH		R 524	J.9/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 C	M529		J13						
MS-PS-39R	B069 B1T-M12SS-GE		Y X	256002	R N				4320
RELIEF VLV PRESS SWITCH		R 524	J.9/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 C	M529		J13						
MS-PS-39S	B069 B1T-M12SS-GE		Y X	256002	R N				4320
RELIEF VLV PRESS SWITCH		R 524	J.9/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 C	M529		J13						
MS-PS-39U	B069 B1T-M12SS-GE		Y X	256002	R N				4320
RELIEF VLV PRESS SWITCH		R 524	J.9/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 C	M529		J13						
MS-PS-39V	B069 B1T-M12SS-GE		Y X	256002	R N				4320
RELIEF VLV PRESS SWITCH		R 524	J.9/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 C	M529		J13						
MS-PS-45A	B069 B1T-M12SS-GE		Y X	256002	R N				4320
MS PRESSURE	H22-P026	R 524	J.5/4.5	R52	R404			E-IR-P026+	
02B22 2 P 2 0 G	M529		J13						
MS-PS-45B	B069 B1T-M12SS-GE		Y X	256002	R N				4320
MS PRESSURE	H22-P026	R 524	N.3/9.0	R52	R404			E-IR-P026+	
02B22 2 P 2 0 G	M529		J13						
MS-PS-45C	B069 B1T-M12SS-GE		Y X	256002	R N				4320
MS PRESSURE	H22-P027	R 524	M.7/6.8	R53	R404			E-IR-P027+	
02B22 2 P 2 0 G	M529		J5						
MS-PS-45D	B069 B1T-M12SS-GE		Y X	256002	R N				24
MS PRESSURE	H22-P027	R 524	M.7/6.8	R53	R404			E-IR-P027+	
02B22 2 P 2 0 G	M529		J5						

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TM / HL / ROOM	***SEISMIC (S) PARAMETERS*** TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
MS-PS-47A DRYWELL 02B22	2	A	1 0 C		S382 12N-AA5-X10TT M529	R 526 J.5/7.2	Y X G12	256016 R51	R N 114		33+	E-IR-P004+	24
MS-PS-47B DRYWELL PRESS FOR HPCS 02B22	2	A	1 0 C		S382 12N-AA5-X10TT H22-P005 M529	R 524 N.8/5.8	Y X G4	256016 R53	R N 114 R404		33+	E-IR-P005+	24
MS-PS-47C DRYWELL PRESSURE 02B22	2	A	1 0 C		S382 12N-AA5-X10TT M529	R 524 J.5/7.2	Y X G12	256016 R51	R N 114 R404		33+	E-IR-P004+	24
MS-PS-47D DRYWELL PRESS FOR HPCS 02B22	2	A	1 0 C		S382 12N-AA5-X0TT H22-P005 M529	R 524 N.8/5.8	Y X G4	256016 R53	R N 114 R404		33+	E-IR-P005+	24
MS-PS-48A DRYWELL PRESSURE 02B22	2	A	1 0 C		S382 12N-AA5-X1051TT H22-P026 M529	R 529 J.5/4.5	A X G12	256016 R52	R N 114 R404		33+	E-IR-P026+	24
MS-PS-48B DRYWELL PRESSURE 02B22	2	A	1 0 C		S382 12N-AA5-X1051TT H22-P027 M529	R 526 M.7/6.8	Y X G5	256016 R53	R N 114 R404		33+	E-IR-P027+	24
MS-PS-48C DRYWELL PRESSURE 02B22	2	A	1 0 C		S382 12N-AA5-X1051TT H22-P026 M529	R 529 J.5/4.5	A X G12	256016 R52	R N 114 00 R404		33+	E-IR-P026+	24
MS-PS-48D DRYWELL PRESSURE 02B22	2	A	1 0 C		S382 12N-AA5-X1051TT H22-P027 M529	R 526 M.7/6.8	A X G5	256016 R53	R N 114 R404		33+	E-IR-P027+	24
MS-PT-2 PRESS TO REMOTE SHUTDOWN C61-N006 02C61	2	P	2 0 G		B040 556110EAAA1WEN M529	R 522 H.3/4.1	Z X J5	259001 W21				05033 01 B	4320
MS-PT-5 RFW PRESSURE 02	2	P	2 0 G		B040 556 M529	R 522 J.5/7.2	Y X J13	259001 R41				E-IR-P004+ G	4320
MS-PT-51A MS PRESSURE - - H22-P026 02B	2	A	1 0 I		B040 556110EAAA1WEN M529	R 523 K.0/4.5	Y P H12	259001 F R52	N 14 00 R404		33+	05153 10 P E-IR-P026+	4320
MS-PT-51B MS PRESSURE - - H22-P027 02B	2	A	1 0 I		B040 55611DEAAA1WEN M529	R 523 M.7/6.8	Y P J4	259001 R53	N 14 00 R404		33+	05153 10 P E-IR-P027+	4320
MS-PT-80B H.P. TURB STM FOR RFW SYSTEM 02	2	P	2 0 G		B040 556 M529	R 522 J.5/7.2	Y X H13	259001 R41				E-IR-P004+ G	4320

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E QID / DETAIL / A/E ZONE	TM / ZONE	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE	C	HOURS
MS-RE-3A MS LINE RAD ELEMENT A 02D17	2	A	1 3 L	237X731G001	G080 M502	R 508 H7/5.9	R J 277002 D2	R42	R310		05153	10	B	.17
MS-RE-3B MS LINE RAD ELEMENT B 02D17	2	A	1 3 L	237X731G001	G080 M502	R 508 H7/5.6	R J 277002 D2	R42	R310		05153	10	B	.17
MS-RE-3C MS LINE RAD ELEMENT 02D17	2	A	1 3 L	237X731G001	G080 M502	R 508 H7/6.4	R D 277002 D1	R41	R310		05153	10	B	.17
MS-RE-3D MS LINE RAD ELEMENT D 02D17	2	A	1 3 L	237X731G001	G080 M502	R 508 H7/6.1	R D 277002 D1	R41	R310		05153	10	B	.17
MS-SPV-1AC SPV FOR MS-RV-1A 02B22	2	P	2 0 G	IMF-2	C710 M529	C 543 25 D AZ R20	R R 315021 K13	C55	Y		MS-RV-1A+	00	A	4320
MS-SPV-1BC SPV FOR MS-RV-1B 02	2	P	2 0 G	IMF-2	C710 M529	C 543 30 D AZ R25	R R 315021 B3	C55	Y		MS-RV-1B+	00	A	4320
MS-SPV-1CC SPV FOR MS-RV-1C 02B22	2	P	2 0 G	IMF-2	C710 M529	C 543 315 D AZ R25	R R 315021 K13	C54	Y		MS-RV-1C+	00	A	4320
MS-SPV-1DC SPV FOR MS-RV-1D 02B22	2	P	2 0 G	IMF-2	C710 M529	C 543 335 D AZ R20	R R 315021 K13	C54	Y		MS-RV-1D+	00	A	4320
MS-SPV-22A2 MS-V-22A PILOT SOLENOID 02B22	2	A	1 3 B1	HTX832320V	A499 M529	C 515 5D AZ R27	P P 315011 J3	C45	Y		MS-V-22A+	10	P	.170
MS-SPV-22A3 MS-V-22A PILOT SOLENOID 02B22	2	A	1 3 B1	HTX8320A20	A499 M529	C 515 5 D AZ R27	P P 315011 J3	C45	Y		MS-V-22A+	10	P	.17
MS-SPV-22B2 MS-V-22B PILOT SOLENOID 02B22	2	A	1 3 B1	HTX832320V	A499 M529	C 515 15 D AZ R27	P P 315011 J3	C45	Y		MS-V-22B+	10	P	.17
MS-SPV-22B3 MS-V-22B PILOT SOLENOID 02B22	2	A	1 3 B1	HTX8320A20	A499 M529	C 515 15 D AZ R27	P P 315011 J3	C45	Y		MS-V-22B+	10	P	.17
MS-SPV-22C2 MS-V-22C PILOT SOLENOID 02B22	2	A	1 3 B1	HTX832320V	A499 M529	C 515 345 D AZ R27	P P 315011 J3	C44	Y		MS-V-22C+	10	P	.17

EPN / DESCRIPTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	TM HL TEST ANL FO C / ROOM	***SEISMIC (S) PARAMETERS*** FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CONTRACT LEVEL EC USE SAFETY FUNCTION		A/E A/E ZONE					
MS-SPV-22C3	A499	HTX8320A20	P P	315011	Y		10 P .17
MS-V-22C PILOT SOLENOID		C 515 345 D AZ	R27	C44			MS-V-22C+
02B22 2 A 1 3 B1		M529	J3				
MS-SPV-22D2	A499	HTX832320V	P P	315011	Y		10 P .17
MS-V-22D PILOT SOLENOID		C 515 355 D AZ	R27	C44			MS-V-22D+
02B22 2 A 1 3 B1		M529	J3				
MS-SPV-22D3	A499	HTX8320A20	P P	315011	Y		10 P .17
MS-V-22D PILOT SOLENOID		C 515 355 D AZ	R27	C44			MS-V-22+
02B22 2 A 1 3 B1		M529	J3				
MS-SPV-28A2	A499	HTX8320A20	P P	315011			10 P .17
MS-V-28A PILOT SOLENOID		R 513 H3/5.9		R42			MS-V-28A+
02B22 2 A 1 3 B1		M529	F13				
MS-SPV-28A3	A499	HTX8320A20	P P	315011			10 P .17
MS-V-28A PILOT SOLENOID		R 513 H.3/5.7		R42			MS-V-28A+
02B22 2 A 1 3 B1		M529	F13				
MS-SPV-28B2	A499	HTX8320A20	P P	315011			10 P .17
MS-V-28B PILOT SOLENOID		R 513 H3/5.6		R42			MS-V-28B+
02B22 2 A 1 3 B1		M529	E13				
MS-SPV-28B3	A499	HTX8320A20	P P	315011			10 P .17
MS-V-28B PILOT SOLENOID		R 513 H.3/56		R42			MS-V-28B+
02B22 2 A 1 3 B1		M529	E13				
MS-SPV-28C2	A499	HTX8320A20	P P	315011			00 P .17
MS-V-28C PILOT SOLENOID		R 513 H3/6.4		R41			MS-V-28C+
02B22 2 A 1 3 B1		M529	F04				
MS-SPV-28C3	A499	HTX8320A20	P P	315011			10 P .17
MN STM ISO VLV 28C PILOT SOLENOID		R 513 H.3/6.4		R41			MS-V-28C+
02B22 2 A 1 3 B1		M529	F04				
MS-SPV-28D2	A499	HTX8320A20	P P	315011			10 P .17
MS-V-28D PILOT SOLENOID		R 513 H3/6.1		R41			MS-V-28D+
02B22 2 A 1 3 B1		M529	E04				
MS-SPV-28D3	A499	HTX8320A20	P P	315011			10 P .17
MS-V-28D PILOT SOLENOID		R 513 H.3/6.1		R41			MS-V-28D+
02B22 2 A 1 3 B1		M529	E04				
MS-SPV-2AC	C710	IMF-2	R R	315021	Y		00 A 4320
SPV FOR MS-RV-2A		C 543 30 D AZ	R20	C55			MS-RV-2A+
02B22 2 P 2 0 G		M529	K13				
MS-SPV-2BC	C710	IMF-2	R R	315021	Y		00 A 4320
SPV FOR MS-RV-2B		C 543 45 D AZ	R25	C55			MS-RV-2B+
02B22 2 P 2 0 G		M529	K13				

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING	STATUS S E QID TM HL TEST ANL FO C / DETAIL / A/E ZONE	ZONE / ROOM	FREQ / ACCURACY	***SEISMIC (S) PARAMETERS*** / *ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
MS-SPV-2CC SPV FOR MS-RV-2C 02B22	2	P	2 0 G	IMF-2	C710 M529	R R 315021 Y C 543 300 D AZ R25 C54 K13			00 A 4320 MS-RV-2C*
MS-SPV-2DC SPV FOR MS-RV-2D 02B22	2	P	2 0 G	IMF-2	C710 M529	R R 315021 Y C 543 320 D AZ R20 C54 K13			00 A 4320 MS-RV-2D*
MS-SPV-3AC SPV FOR MS-RV-3A 02B22	2	P	2 0 G	IMF-2	C710 M529	R R 315021 Y C 543 45 D AZ R20 C55 K13			00 A 4320 MS-RV-3A*
MS-SPV-3BC SPV FOR MS-RV-3B 02B22	2	P	2 0 G	IMF-2	C710 M529	R R 315021 Y C 543 67 D AZ R20 C55 K13			00 A 4320 MS-RV-3B*
MS-SPV-3CC SPV FOR MS-RV-3C 02B22	2	P	2 0 G	IMF-2	C710 M529	R R 315021 Y C 543 290 D AZ R20 C54 K13			00 A 4320 MS-RV-3C*
MS-SPV-3DA ADS PILOT FOR MS-RV-3D 02B22	2	A	1 0 C,E	IMF-2	C710 M529	R P 315008 Y C 547 310 DEG AZ C54 K15			10 A 4320 MS-RV-3D*
MS-SPV-3DB SOLENOID PILOT FOR MS-RV-3D 02B22	2	A	1 0 C	IMF-2	C710 M529	R P 315008 Y C 547 310 DEG AZ C54 K15			10 A 24 MS-RV-3D*
MS-SPV-3DC SPV FOR MS-RV-3D 02B22	2	P	2 0 G	IMF-2	C710 M529	R R 315021 Y C 543 310 D AZ R20 C54 K15			00 A 4320 MS-RV-3D*
MS-SPV-4AA ADS PILOT FOR MS-RV-4A 02B22	2	A	1 0 C,E	IMF-2	C710 M529	R P 315008 Y C 547 62 DEG AZ C55 K15			10 A 4320 MS-RV-4A*
MS-SPV-4AB ADS PILOT FOR MS-RV-4A 02B22	2	A	1 0 C,E	IMF-2	C710 M529	R P 315008 Y C 547 62 DEG AZ C55 K15			10 A 4320 MS-RV-4A*
MS-SPV-4AC SPV FOR MS-RV-4A 02B22	2	P	2 0 G	IMF-2	C710 M529	R R 315021 Y C 543 55 D AZ R20 C55 K15.			00 A 4320 MS-RV-4A*
MS-SPV-4BA ADS PILOT FOR MS-RV-4B 02B22	2	A	1 0 C,E	IMF-2	C710 M529	R P 315008 Y C 547 75 DEG AZ C55 K15			10 A 4320 MS-RV-4B*
MS-SPV-4BB ADS PILOT FOR MS-RV-4B 02B22	2	A	1 0 C,E	IMF-2	C710 M529	R P 315008 Y C 547 75 DEG AZ C55 K15			10 A 4320 MS-RV-4B*

EPN / CONTRACT	LEVEL	EC	MFG / USE	DESCRIPTION / SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TM HL TEST ANL FO C / ROOM	FREQ / ACCURACY	ENV. (E) PARAMETERS AGING DBE C HOURS / COMPOSITE EPN
MS-SPV-4BC SPV FOR MS-RV-4B 02B22	2	P	C710 2 0 G	IMF-2	M529	C 543 80 D AZ R17 K15	R R	315021 C55	Y	MS-RV-4B+	00 A 4320
MS-SPV-4CA ADS PILOT FOR MS-RV-4C 02B22	2	A	C710 1 0 C+E	IMF-2	M529	C 547 285 DEG AZ K15	R P	315008 C54	Y	MS-RV-4C+	10 A 4320
MS-SPV-4CB ADS PILOT FOR MS-RV-4C 02B22	2	A	C710 1 0 C+E	IMF-2	M529	C 547 285 DEG AZ K15	R P	315008 C54	Y	MS-RV-4C+	10 A 4320
MS-SPV-4CC SPV FOR MS-RV-4C 02B22	2	P	C710 2 0 G	IMF-2	M529	C 543 285 D AZ R25 K15	R R	315021 C54	Y	MS-RV-4C+	00 A 4320
MS-SPV-4DA ADS PILOT FOR MS-RV-4D 02B22	2	A	C710 1 0 C+E	IMF-2	M529	C 547 300 DEG AZ K15	R P	315008 C54	Y	MS-RV-4D+	10 A 4320
MS-SPV-4DB ADS PILOT FOR MS-RV-4D 02B22	2	A	C710 1 0 C+E	IMF-2	M529	C 547 300 DEG AZ K15	R P	315008 C54	Y	MS-RV-4D+	10 A 4320
MS-SPV-4DC SPV FOR MS-RV-4D 02B22	2	P	C710 2 0 G	IMF-2	M529	C 543 300 D AZ R20 K15	R R	315021 C54	Y	MS-RV-4D+	00 A 4320
MS-SPV-5BA ADS PILOT FOR MS-RV-5B 02B22	2	A	C710 1 0 C+E	IMF-2	M529	C 547 80 DEG AZ K15	R P	315008 C55	Y	MS-RV-5B+	10 A 4320
MS-SPV-5BB ADS PILOT FOR MS-RV-5B 02B22	2	A	C710 1 0 C+E	IMF-2	M529	C 547 80 DEG AZ K15	R P	315008 C55	Y	MS-RV-5B+	10 A 4320
MS-SPV-5BC SPV FOR MS-RV-5B 02B22	2	P	C710 2 0 G	IMF-2	M529	C 543 80 D AZ R20 K15	R R	315021 C55	Y	MS-RV-5B+	00 A 4320
MS-SPV-5CA ADS PILOT FOR MS-RV-5C 02B22	2	A	C710 1 0 C+E	IMF-2	M529	C 547 275 DEG AZ K15	R P	315008 C54	Y	MS-RV-5C+	10 A 4320
MS-SPV-5CB ADS PILOT FOR MS-RV-5C 02B22	2	A	C710 1 0 C+E	IMF-2	M529	C 547 275 DEG AZ K15	R P	315008 C54	Y	MS-RV-5C+	10 A 4320
MS-SPV-5CC SPV FOR MS-RV-5C 02B22	2	P	C710 2 0 G	IMF-2	M529	C 543 280 D AZ R25 K15	R R	315021 C54	Y	MS-RV-5C+	00 A 4320

EPN / CONTRACT	LEVEL	MFG DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG ELEV / DRAWING	STATUS S E / DETAIL A/E	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / HL	TEST / ROOM	ANL / ACCURACY	FO	C	FREQ	*ENV* AGING	(E) PARAMETERS* DBE	C	HOURS COMPOSITE EPN
HS-TE-4A TE DWNSTRM OF HS-RV-2A		P427		133D9679P001		C 541 45	X X D AZ	339020 C45	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		F10										
HS-TE-4B TE DWNSTRM OF HS-RV-2B		P427		133D9679P001		C 541 51	X X D AZ	339020 C45	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		F10										
HS-TE-4C TE DWNSTRM OF HS-RV-2D		P427		133D9679P001		C 541 306	X X D AZ	339020 C44	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		D7										
HS-TE-4D TE DWNSTRM OF HS-RV-2C		P427		133D9679P001		C 541 300	X X D AZ	339020 C44	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		F6										
HS-TE-4E TE DWNSTRM OF HS-RV-1B		P427		133D9679P001		C 541 47	X X D AZ	339020 C47	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		D11										
HS-TE-4F TE DWNSTRM OF HS-RV-2B		P427		133D9679P001		C 541 60	X X D AZ	339020 C47	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		D11										
HS-TE-4G TE DWNSTRM OF HS-RV-3C		P427		133D9679P001		C 541 205	X X D AZ	339020 C46	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		F7										
HS-TE-4H TE DWNSTRM OF HS-RV-3B		P427		133D9679P001		C 541 60	X X D AZ	339020 C47	Y	00		00		05153	10	E	4320
02B22	2	P	2 0 G		M529		D10										
HS-TE-4J TE DWNSTRM OF HS-RV-1A		P427		133D9679P001		C 541 29	X X D AZ	339020 C46	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		F11										
HS-TE-4K TE DWNSTRM OF HS-RV-1D		P427		133D9679P001		C 541 330	X X D AZ	339020 C44	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		D7										
HS-TE-4L TE DWNSTRM OF HS-RV-1C		P427		133D9679P001		C 541 312	X X D AZ	339020 C44	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		F6										
HS-TE-4M TE DWNSTRM OF HS-RV-4C		P427		133D9679P001		C 541 288	X X D AZ	339020 C46	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		F8										
HS-TE-4N TE DWNSTRM OF HS-RV-5C		P427		133D9679P001		C 541 193	X X D AZ	339020 C46	Y	00		00		05153	10	E	4320
02B	2	P	2 0 G		M529		F8										

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL / BLDG ELEV DRAWING A/E ZONE	STATUS S E DETAIL	QID ZONE	TM ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS COMPOSITE EPN
MS-TE-4P TE DWNSTRM OF MS-RV-4D 02B 2 P 2 0 G	133D9679P001 C 541 303 D AZ M529	X X D8	339020 C44	Y	00	00	05153	10	E	4320
MS-TE-4R TE DWNSTRM OF MS-RV-4B 02B 2 P 2 0 G	P427 133D9679P001 C 541 72 D AZ M529	X X D10	339020 C47	Y	00	00	05153	10	E	4320
MS-TE-4S TE DWNSTRM OF MS-RV-4A 02B 2 P 2 0 G	P427 133D9679P001 C 541 57 D AZ M529	X X F9	339020 C47	Y	00	00	05153	10	E	4320
MS-TE-4U TE DWNSTRM OF MS-RV-5B 02B 2 P 2 0 G	P427 133D9679P001 C 541 88 D AZ M529	X X D9	339020 C45	Y	00	00	05153	10	E	4320
MS-TE-4V TE DWNSTRM OF MS-RV-3D 02B 2 P 2 0 G	P427 133D9679P001 C 541 310 D AZ M529	X X D8	339020 C45	Y	00	00	05153	00	E	4320
MSLC-FT-3A LOOP "A" TO MANIFOLD 215 2 A 1 0 F	R369 1153DB3 R 477 H.4/5.7 M557	X R C5	156001 R32	R206			04153	00	E	4320
MSLC-FT-3B LOOP "B" TO MANIFOLD 215 2 A 1 0 F	R369 1153DB3 R 474 H.4/5.7 M557	X R C5	156001 R32	R206			04153	00	E	4320
MSLC-FT-3C LOOP "C" TO MANIFOLD 215 2 A 1 0 F	R369 1153DB3 R 477 H.4/5.8 M557	X R E5	156001 R32	R206			04153	00	E	4320
MSLC-FT-3D LOOP "D" TO MANIFOLD 215 2 A 1 0 F	R369 1153DB3 R 474 H.4/5.8 M557	X R E5	156001 R32	R206			04153	00	E	4320
MSLC-H-A MAIN STM LEAKAGE CONTROL HTR A 215 2 A 1 0 F	C268 14HTV1-CT R 477 H.4/5.7 M557	Z R C8	164004 R32	R206			06153 MSLC-H-A+	00	E	24
MSLC-H-A+ MAIN STEAM LEAK CONTROL HT A COMP 215 1 A 1 0 F	C268 14HTV1-CT R 477 H.4/5.7 M557	Z R C8	164004				06153	04	E	
MSLC-H-B MAIN STM LEAKAGE CONTROL HTR B 215 2 A 1 0 F	C268 14HTV1-CT R 474 H.4/5.7 M557	Z R C7	164004 R32	R206			06153 MSLC-H-B+	00	E	24
MSLC-H-B+ MAIN STEAM LEAK CONTROL HT B COMP 215 1 A 1 0 F	C268 14HTV1-CT R 477 H.4/5.7 M557	Z R C7	164004				06153	04	E	

EPN / DESCRIPTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E DETAIL / QID ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ANL FO C FREQ ACCURACY / ROOM	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
CONTRACT LEVEL EC USE SAFETY FUNCTION	A/E	A/E ZONE			
HSLC-H-C	C268 14HTV1-CT		Z R 164004		06153 00 E 24
MAIN STM LEAKAGE CONTROL HTR C		R 477 H.4/5.8	R32	R206	HSLC-H-C+
215 2 A 1 0 F	M557	E8			
HSLC-H-C+	C268 14HTV1-CT		Z R 164004		06153 04 E
MAIN STEAM LEAK CONTROL HT C COMP		R 477 H.4/5.8			
215 1 A 1 0 F	M557	E8			
HSLC-H-D	C268 14HTV1-CT		Z R 164004		06153 00 E 24
MAIN STM LEAKAGE CONTROL HTR D		R 474 H.4/5.8	R32	R206	HSLC-H-D+
215 2 A 1 0 F	M557	E7			
HSLC-H-D+	C268 14HTV1-CT		Z R 164004		06153 04 E
MAIN STEAM LEAK CONTROL HT D COMP		R 477 H.4/5.8			
215 1 A 1 0 F	M557	E7			
HSLC-H-FN/1	W120 T8FC/213T		X X 213020		4320
1.5 HP MOTOR FOR HSLC-FN-1		R 473 H.4/6.3	R31	R206	HSLC-FN-1+
28 2 A 1 0 F	M557	E4			
HSLC-H-FN/2	W120 T8FC/213T		X X 213020		4320
1.5HP MOTOR FOR HSLC-FN-2		R 512 H.6/7.3	R41	R305	HSLC-FN-2+
28 2 A 1 0 F	M557	H3			
HSLC-MO-10	L200 SMB-000-5		D X 221001 P 114	33+	4320
1HP MOTOR OPERATOR HSLC-V-10		R 504 H.4/6.6	R42	R310	HSLC-V-10+
215 2 A 1 0 F	M557	H5			
HSLC-MO-1A	L200 SMC-043D9319A		A R 221001		00 C 4320
1HP MOTOR OPERATOR HSLC-V-1A		R 482 H.4/5.6	R42	R310	HSLC-V-1A+
215 2 A 1 0 F	M557	C7			
HSLC-MO-1B	L200 SMC-043D9319A		A R 221001 P 114	33+	00 4320
1HP MOTOR OPERATOR HSLC-V-1B		R 477 H.4/5.7	R42	R310	HSLC-V-1B+
215 2 A 1 0 F	M557	C6			
HSLC-MO-1C	L200 SMC-04-3/42		A R 221001 P 114	33+	00 C 4320
1HP MOTOR OPERATOR HSLC-V-1C		R 482 H.4/5.7	R41	R310	HSLC-V-1C+
215 2 A 1 0 F	M557	D7			
HSLC-MO-1D	L200 SMC-04-3/42		A R 221001 P 114	33+	00 C 4320
1HP MOTOR OPERATOR HSLC-V-1D		R 477 H.4/5.6	R41	R310	HSLC-V-1D+
215 2 A 1 0 F	M557	D6			
HSLC-MO-2A	L200 SMB-000-5		A X 221001 P 114	33+	4320
1HP MOTOR OPERATOR HSLC-V-2A		R 505 H.7/5.7	R42	R310	HSLC-V-2A+
215 2 A 1 0 F	M557	C8			
HSLC-MO-2B	L200 SMB-000-5		A X 221001 P 114	33+	4320
1HP MOTOR OPERATOR HSLC-V-2B		R 505 H.4/5.3	R42	R310	HSLC-V-2B+
215 2 A 1 0 F	M557	C8			

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG DRAWING	ELEV	A/E	STATUS S E DETAIL A/E	QID ZONE	TM ROOM	HL TEST ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
MSLC-MO-2C 1HP MOTOR OPERATOR MSLC-V-2C 215	2	A	1 0 F	SMB-000-5	L200	R 505 M557	H.7/6.4	A	A X E8	221001 P R41	114 R310		33+	4320 MSLC-V-2C+
MSLC-MO-2D 1HP MOTOR OPERATOR MSLC-V-2D 215	2	A	1 0 F	SMB-000-5	L200	R 505 M557	H.5/6.1	A	A X E8	221001 P R41	114 R310		33+	10 C 4320 MSLC-V-2D+
MSLC-MO-3A 1HP MOTOR OPERATOR MSLC-V-3A 215	2	A	1 0 F	SMB-000-5	L200	R 505 M557	H.3/5.9	A	A X C9	221001 P R42	114 R310		33+	4320 MSLC-V-3A+
MSLC-MO-3B 1HP MOTOR OPERATOR MSLC-V-3B 215	2	A	1 0 F	SMB-000-5	L200	R 505 M557	H.3/5.3	A	A X C8	221001 P R42	114 R310		33+	4320 MSLC-V-3B+
MSLC-MO-3C 1HP MOTOR OPERATOR MSLC-V-3C 215	2	A	1 0 F	SMB-000-5	L200	R 505 M557	H.7/6.4	A	A X E9	221001 P R41	114 R310		33+	4320 MSLC-V-3C+
MSLC-MO-3D 1HP MOTOR OPERATOR MSLC-V-3D 215	2	A	1 0 F	SMB-000-5	L200	R 505 M557	H.3/6.1	A	A X E8	221001 P R41	114 R310		33+	4320 MSLC-V-3D+
MSLC-MO-4 1.0HP MOTOR OPERATOR MSLC-V-4 215	2	A	1 0 F	SMB-000-5	L200	R 504 M557	H.3/6.4	A	D X J5	221001 P R42	114 R310		33+	4320 MSLC-V-4+
MSLC-MO-5 1.0HP MOTOR OPERATOR MSLC-V-5 215	2	A	1 0 F	SMB-000-5	L200	R 504 M557	H.3/6.3	A	D X J5	221001 P R42	114 R310		33+	4320 MSLC-V-5+
MSLC-MO-9 1 HP MOTOR OPERATOR MSLC-V-9 215	2	A	1 0 F	SMB-000-5	L200	R 517 M557	H.3/6.2	A	D X H5	221001 P R42	114 R310		33+	4320 MSLC-V-9+
MSLC-PS-20 REACTOR PRESS INTRLK 58	3	A	1 0 F	288A	B080	R 522 M557	H.4/7.1	A	X X K8	256007 R R51	N 121 R404		09	4320 E-IR-74+
MSLC-PS-24 HEADER PRESS 58	3	A	1 0 F	288A	B080	R 522 M557	H.4/7.1	A	X X J8	256007 R R51	N 121 R404		09	4320 E-IR-74+
MSLC-PS-25 HEADER PRESS 58	3	A	1 0 F	288A	B080	R 522 M557	H.4/7.1	A	X X J8	256007 R R51	N 121 R404		09	4320 E-IR-74+
MSLC-PS-60 HEADER PRESS 58	3	A	1 0 F	288A	B080	R 522 M557	H.4/7.1	A	X X J8	256007 R R51	N 121 R404		09	4320 E-IR-74+

EPN	DESCRIPTION	CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG	MODEL	A/E	BLDG	ELEV	DRAWING	STATUS S	STATUS E	DETAIL A/E ZONE	QID	ZONE	TM	HL	TEST	ROOM	FREQ	AGING	DBE	C	HOURS	COMPOSITE EPN
MSLC-PS-70A	LOOP "A" PRESS	58	3	A	1 0	F	B080	288A	M557	R	526	H.4/4.2	X	X	G8	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-70B	LOOP "B" PRESS	58	3	A	1 0	F	B080	288A	M557	R	526	H.4/4.2	X	X	F8	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-70C	LOOP "C" PRESS	58	3	A	1 0	F	B080	288A	M557	R	526	H.4/4.2	X	X	F8	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-70D	LOOP "D" PRESS	58	3	A	1 0	F	B080	288A	M557	R	526	H.4/4.2	X	X	F8	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-7A	LOOP "A"	58	3	A	1 0	F	B080	288A	M557	R	526	H.4/4.2	X	X	G10	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-7B	LOOP "B"	58	3	A	1 0	F	B080	288A	M557	R	526	H.4/4.2	X	X	F9	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-7C	LOOP "C"	58	3	A	1 0	F	B080	288A	M557	R	528	H.4/4.2	X	X	F10	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-7D	LOOP "D"	58	3	A	1 0	F	B080	288A	M557	R	528	H.4/4.2	X	X	F10	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-8A	REACTOR PRESS INTRLK	58	3	A	1 0	F	B080	288A	M557	R	528	H.4/4.2	X	X	G11	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-8B	REACTOR PRESS INTRLK	58	3	A	1 0	F	B080	288A	M557	R	525	H.4/4.2	X	X	G11	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-8C	REACTOR PRESS INTRLK	58	3	A	1 0	F	B080	288A	M557	R	526	H.4/4.2	X	X	G11	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PS-8D	REACTOR PRESS INTRLK	58	3	A	1 0	F	B080	288A	M557	R	526	H.4/4.2	X	X	F11	256007	R52	R	N	121	R404	09				4320	E-IR-73+
MSLC-PT-10A	0-8PSIG LEAK PRESS XMITER CHL A	220	2	A	1 0	I	R369	1153-GB5	M557	R	528	H.3/3.7	X	R	C8	156001							05253	13	E	4320	

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
MSLC-PT-10B 0-8PSIG LEAK PRESS XMITER CHL B 220	2	A	1 0 I		1153-GB5 M557	R 528 H.3/3.7	X R F8	156001			05253 13 E	4320
MSLC-PT-10C 0-8 PSIG LEAK PRESS XMITER CHL C 220	2	A	1 0 I		1153-GB5 M557	R 528 H.3/3.7	X R F8	156001			05253 13 E	4320
MSLC-PT-10D 0-8 PSIG LEAK PRESS XMITER CHL D 220	2	A	1 0 I		1153-GB5 M557	R 528 H.3/3.7	X R E8	156001			05253 13 E	4320
MSLC-PT-11 QTBD. ISO VLV HDR PRESS 0-2 PSIG 220	2	A	1 0 I		1153-GB4 M557	R 529 H.3/6.7	X X J7	156001 R42			05253 13 E	4320
MSLC-PT-12A 0-50 PSIG LEAK PRESS XMITER CHL A 220	2	A	1 0 I		1153-GB6 M557	R 526 H.3/3.7	X R G7	156001			05253 13 E	4320
MSLC-PT-12B 0-50 PSIG LEAK PRESS XMITER CHL B 220	2	A	1 0 I		1153-GB6 M557	R 526 H.3/3.7	X R F7	156001			05253 13 E	4320
MSLC-PT-12C 0-50 PSIG LEAK PRESS XMITER CHL C 220	2	A	1 0 I		1153-GB6 M557	R 526 H.3/3.7	X R F7	156001			05253 13 E	4320
MSLC-PT-12D 0-50 PSIG LEAK PRESS XMITER CHL D 220	2	A	1 0 I		1153-GB6 M557	R 526 H.3/3.7	X R E7	156001			05253 13 E	4320
MSLC-PT-13 QTBD. ISO VLV HDR PRESS 0-50 PSIG 220	2	A	1 0 I		1153-GB6 M557	R 529 H.3/6.7	X X J7	156001 R42			05253 13 E	4320
MSLC-PT-23 HEADER PRESS 59	3	P	2 0 G		1151GP9A22MBGE3 M557	R 524 H.4/7.1	X X J8	259003 R N 114 R51		50 E-IR-74+		4320
MSLC-PT-6A MS LINE A PRESS 59	3	P	2 0 G		1151GP9A22MBGE3 M557	R 524 H.4/4.2	X X G10	259003 R N 114 R52 R404		50 E-IR-73+		4320
MSLC-PT-6B MS LINE B PRESS 59	3	P	2 0 G		1151GP9A22MBGE3 M557	R 524 H.4/4.2	X X G10	259003 R N 114 R52 R404		50 E-IR-73+		4320
MSLC-PT-6C MS LINE C PRESS 59	3	P	2 0 G		1151GP9A22MBGE3 M557	R 525 H.4/4.2	X X F10	259003 R N 114 R52 R404		50 E-IR-73+		4320

EPN / DESCRIPTION	MFG / MODEL	STATUS S E / DETAIL	BLDG ELEV / DRAWING	QID / ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE	C	HOURS
CONTRACT LEVEL EC USE SAFETY FUNCTION	A/E	A/E ZONE									
MSLC-PT-6D MS LINE D PRESS	P369	11516P9A22MB6E3	R	X X 259003 525 H.4/4.2	R	N 114 R52 R404	50	E-IR-73+			4320
59 3 P 2 0 G	M557	F10									
MSLC-RLY-CR/1 DIV 2, MS-MSLC CONTROL INTRLK	A500	RXMH2	R	X X 283015 526 H.4/7.1	R	N 021 R51		06153 E-IR-74+	10	Z	24
58 3 A 1 0 F	E519/31	J9									
MSLC-RLY-CR/10 MSIV CLOSURE INTERLK	A500	RXMH2	R	X X 283015 527 H.4/4.2	R	N 021 R52		06153 E-IR-73+	00	Z	4320
58 3 A 1 0 F	E519/30	E1									
MSLC-RLY-CR/11 MS-MSLC CONTROL INTERLK	A500	RXMH2	R	X X 283015 527 H.4/4.2	R	N 021 R52		06153 E-IR-73+	00	Z	4320
58 3 A 1 0 F	E519/30	E1									
MSLC-RLY-CR/12 MS-MSLC CONTROL INTERLK	A500	RXMH2	R	X X 283015 527 H.4/4.2	R	N 021 R52		06153 E-IR-73+	00	Z	4320
58 3 A 1 0 F	E519/30	E1									
MSLC-RLY-CR/13 MS-MSLC CONTROL INTERLK	A500	RXMH2	R	X X 283015 527 H.4/4.2	R	N 021 R52		06153 E-IR-73+	00	Z	4320
58 3 A 1 0 F	E519/30	D1									
MSLC-RLY-CR/1A DIV 1, MS-MSLC CONTROL INTRLK	A500	RXMH2	R	X X 283015 528 H.4/4.2	R	N 021 R52		06153 E-IR-73+	00	Z	4320
58 3 A 1 0 F	E519/30	K13									
MSLC-RLY-CR/1B MS-MSLC CONTROL INTERLK	A500	RXMH2	R	X X 283015 528 H.4/4.2	R	N 021 R52		06153 E-IR-73+	00	Z	4320
58 3 A 1 0 F	E519/30	J13									
MSLC-RLY-CR/1C MS-MSLC CONTROL INTERLK	A500	RXMH2	R	A X 283015 527 H.4/4.2	R	N 021 R52		06153 E-IR-73+	00	Z	4320
58 3 A 1 0 F	E519/30	F13									
MSLC-RLY-CR/1D MS-MSLC CONTROL INTERLK	A500	RXMH2	R	X X 283015 527 H.4/4.2	R	N 021 R52		06153 E-IR-73+	00	Z	4320
58 3 A 1 0 F	E519/30	E13									
MSLC-RLY-CR/3 DIV 2, ATMOS PRESS CNTRL INTRLK	A500	RXMH2	R	X X 283015 526 H.4/7.1	R	N 021 R51		06153 E-IR-74+	10	Z	4320
58 3 A 1 0 F	E519/31	J9									
MSLC-RLY-CR/4 DIV 2, CONTROL SW INTRLK	A500	RXMH2	R	X X 283015 522 H.4/7.1	R	N 021 R51		06153 E-IR-74+	10	Z	4320
218 3 A 1 0 F	E519/31										
MSLC-RLY-CR/5 DIV 2, ATMOS PRESS CONTROL INTRLK	S440	219XDXP	R	X X 283041 522 H.4/7.1	R	N 149 R51	17+	06153 E-IR-74+	10	Z	4320
218 3 A 1 0 F	E519/31										

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / DRAWING	STATUS S	E	QID / A/E ZONE	TM	HL	TEST	ANL	FO	C	FREQ	ENV. AGING / COMPOSITE EPN	(E) PARAMETERS DBE	C	HOURS
MSLC-RLY-CR/5A1			A500	RXMH2		X	X	283015	R	N	021					06153	00	Z	4320
MSL PRESSURE INTERLK					R 528 H.4/4.2			R52								E-IR-73+			
58	3	A	1	0 F	E519/30			H13											
MSLC-RLY-CR/5A2			A500	RXMK1		X	X	283011	R	N	021					06153	00		4320
MSL PRESSURE INTERLK (60 SEC TD)					R 527 H.4/4.2			R52								E-IR-73+			
58	3	A	1	0 F	E519/30			H13											
MSLC-RLY-CR/5B1			A500	RXMK1		X	X	283011	R	N	021				02	06153	00	Z	4320
MSL PRESSURE INTERLK (60 SEC TD)					R 527 H.4/4.2			R52								E-IR-73+			
58	3	A	1	0 F	E519/30			G13											
MSLC-RLY-CR/5B2			A500	RXMK1		X	X	283011	R	N	021					06153	00		24
MSL PRESSURE INTERLK (60 SEC TD)					R 527 H.4/4.2			R52								E-IR-73+			
58	3	A	1	0 F	E519/30			G13											
MSLC-RLY-CR/5C1			A500	RXMH2		X	X	283015	R	N	021					06153	00	Z	4320
MSL PRESSURE INTERLK (60 SEC TD)					R 527 H.4/4.2			R52								E-IR-73+			
58	3	A	1	0 F	E519/30			D13											
MSLC-RLY-CR/5C2			A500	RXMK1		X	X	283011	R	N	021					06153	00		4320
MSL PRESSURE INTERLK (60 SEC TD)					R 528 H.4/4.2											E-IR-73+			
58	3	A	1	0 F	E519/30			D13											
MSLC-RLY-CR/5D1			A500	RXMH2		X	X	283015	R	N	021					06153	00	Z	4320
MSL PRESSURE INTERLK (60 SEC TD)					R 527 H.4/4.2											E-IR-73+			
58	3	A	1	0 F	E519/30			C13											
MSLC-RLY-CR/5D2			A500	RXMK1		X	X	283011	R	N	021					06153	00		4320
MSL PRESSURE INTERLK (60 SEC TD)					R 528 H.4/4.2											E-IR-73+			
58	3	A	1	0 F	E519/30			C13											
MSLC-RLY-CR/6A1			A500	RXMH2		X	X	283015	R	N	021					06153	00	Z	4320
MSL PRESSURE INTERLK (150 SEC TD)					R 528 H.4/4.2			R52								E-IR-73+			
58	3	A	1	0 F	E519/30			G13											
MSLC-RLY-CR/6A2			A500	RXMK1		X	X	283011	R	N	021					06153	00		4320
MSL PRESSURE INTERLK (150 SEC TD)					R 528 H.4/4.2			R52								E-IR-73+			
58	3	A	1	0 F	E519/30			G13											
MSLC-RLY-CR/6B1			A500	RXMH2		X	X	283015	R	N	021					06153	00	Z	4320
MSL PRESSURE INTERLK (150 SEC TD)					R 528 H.4/4.2			R52								E-IR-73+			
58	3	A	1	0 F	E519/30			F13											
MSLC-RLY-CR/6B2			A500	RXMK1		A	X	283011	R	N	021					06153	00	Z	4320
MSL PRESSURE INTERLK (150 SEC TD)					R 528 H.4/4.2			R52								E-IR-73+			
58	3	A	1	0 F	E519/30			F13											
MSLC-RLY-CR/6C1			A500	RXMH2		X	X	283015	R	N	021					06153	00	Z	4320
MSL PRESSURE INTERLK (150 SEC TD)					R 527 H.4/4.2											E-IR-73+			
58	3	A	1	0 F	E519/30			C13											

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID	TH	HL	TEST	ANL	FO	C	FREQ / ACCURACY	ROOM	*ENV. AGING / COMPOSITE EPN	(E) PARAMETERS* DBE	C	HOURS
MSLC-RLY-CR/6C2 MSL PRESSURE INTERLK (150 SEC TD)					A500 RXMK1			X X C13	283011	R	N					021		06153 E-IR-73+	00		4320
58	3	A	1	0 F		R E519/30	528 H.4/4.2														
MSLC-RLY-CR/6D1 MSL PRESSURE INTERLK (150 SEC TD)					A500 RXMH2			X X B13	283015	R	N					021		06153 E-IR-73+	00	Z	4320
58	3	A	1	0 F		R E519/30	527 H.4/4.2														
MSLC-RLY-CR/6D2 MSL PRESSURE INTERLK (150 SEC TD)					A500 RXMK1			X X B13	283011	R	N					021		06153 E-IR-73+	00		4320
58	3	A	1	0 F		R E519/30	528 H.4/4.2														
MSLC-RLY-CR/8 CONTROL SWITCH INTERLK					A500 RXMH2			X X K13	283015	R	N					021	R52	06153 E-IR-73+	00	Z	4320
58	3	A	1	0 F		R E519/30	528 H.4/4.2														
MSLC-RLY-CR/9 CONTROL SWITCH INTERLK					A500 RXMH2			X X F13	283015	R	N					021	R52	06153 E-IR-73+	00	Z	4320
58	3	A	1	0 F		R F519/30	528 H.4/4.2														
MSLC-TD-TK/2 DIV 2, TIME DELAY PKUP RLY(60 SEC)					A109 7012AE			X X J9	283013									05253 E-IR-74+	11		4320
58	3	A	1	0 F		R E519/31	526 H.4/7.1														
MSLC-TD-TK/2A DIV 1, TIME DELAY PKUP (60 SEC)					A109 7012AE			X X J13	283013									05253 E-IR-73+	01		4320
58	3	A	1	0 F		R E519/30	528 H.4/4.2														
MSLC-TD-TK/2B DIV 1, TIME DELAY PKUP (60 SEC)					A109 7012AE			X X J13	283013									05253 E-IR-73+	01		4320
58	3	A	1	0 F		R E519/30	528 H.4/4.2														
MSLC-TD-TK/2C DIV 1, TIME DELAY PKUP (60 SEC)					A109 7012AE			X X E13	283013									05253 E-IR-73+	01		4320
58	3	A	1	0 F		R E519/30	528 H.4/4.2														
MSLC-TD-TK/2D DIV 1, TIME DELAY PKUP (60 SEC)					A109 7012AE			X X E13	283013									05253 E-IR-73+	01		4320
58	3	A	1	0 F		R E519/30	528 H.4/4.2														
MSLC-TD-TK/3A DIV. 1, TIME DELAY PICKUP(60 SEC)					A109 7012AE			X X J13	283013									05253 E-IR-73+	01		4320
58	3	A	1	0 F		R E519/30	528 H.4/4.2														
MSLC-TD-TK/3B DIV. 1, TIME DELAY PICKUP(60 SEC)					A109 7012AE			X X H13	283013									05253 E-IR-73+	01		4320
58	3	A	1	0 F		R E519/30	527 H.4/4.2														
MSLC-TD-TK/3C DIV 1 TIME DELAY PICKUP					A109 7012AE			X X E13	283013									25253 E-IR-73+	01		4320
58	3	A	1	0 F		R E519/30	548 H.4/4.2														

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG DRAWING	ELEV A/E	STATUS S E DETAIL A/E	OID ZONE	SEISMIC (S) PARAMETERS TM HL TEST ANL FO C ROOM ACCURACY	FREQ	ENV. (E) PARAMETERS AGING DBE C HOURS COMPOSITE EPN
MSLC-TD-TK/3D DIV. 1, TIME DELAY PICKUP (120 SEC) 58	3	A	1 0	F	A109 7012AE R E519/30	528	X X H.4/4.2 D13	283013			05253 01 4320 E-IR-73+
MSLC-TD-TK/4A DIV. 1, TIME DELAY PICKUP (150 SEC) 58	3	A	1 0	F	A109 7012AE R E519/30	528	X X H.4/4.2 J13	283013			05253 01 4320 E-IR-73+
MSLC-TD-TK/4B DIV. 1, TIME DELAY PICKUP (150 SEC) 58	3	A	1 0	F	A109 7012AE R E519/30	528	X X H.4/4.2 H13	283013			05253 01 4320 E-IR-73+
MSLC-TD-TK/4C DIV. 1, TIME DELAY PICKUP (150 SEC) 58	3	A	1 0	F	A109 7012AE R E519/30	528	X X H.4/4.2 E13	283013			05253 01 4320 E-IR-73+
MSLC-TD-TK/4D DIV. 1, TIME DELAY PICKUP (150 SEC) 58	3	A	1 0	F	A109 7012AE R E519/30	528	X X H.4/4.2 D13	283013			05253 01 4320 E-IR-73+
MSLC-TE-10A LOOP "A" TO MANIFOLD 215	3	A	1 0	F	H329 TC-2370-C-A-250-TT R M557	477	X R H.4/5.7 C8	339003 R32	R206		04293 00 E 24 MSLC-H-A+
MSLC-TE-10B LOOP "B" TO MANIFOLD 215	3	A	1 0	F	H329 TC-2370-C-A-250-TT R M557	474	X R H.4/5.7 C7	339003 R32	R206		04293 00 E 24 MSLC-H-B+
MSLC-TE-10C LOOP "C" TO MANIFOLD 215	3	A	1 0	F	H329 TC-2370-C-A-250-TT R M557	477	X R H.4/5.8 E8	339003 R32	R206		04293 00 E 24 MSLC-H-C+
MSLC-TE-10D LOOP "D" TO MANIFOLD 215	3	A	1 0	F	H329 TC-2370-C-A-250-TT R M557	474	X R H.4/5.8 E7	339003 R32	R206		04293 00 E 24 MSLC-H-D+
MSLC-TS-12A HEAT TRACE LOW TEMP ALARM LINE A 218	3	P	2 0	G	A499 SC11AR/QL11A4R R M557	471	Z X H.3/5.9 B8	355020 R32			06153 02 E 4320
MSLC-TS-12B HEAT TRACE LOW TEMP ALARM LINE B 218	3	P	2 0	G	A499 SC11AR/QL11A4R R M557	471	Z X H.3/5.9 C7	355020 R32			06153 02 E 4320
MSLC-TS-12C HEAT TRACE LOW TEMP ALARM LINE C 218	3	P	2 0	G	A499 SC11AR/QL11A4R R M557	471	Z X H.3/5.9 D8	355020 R32			06153 02 E 4320
MSLC-TS-12D HEAT TRACE LOW TEMP ALARM LINE D 218	3	P	2 0	G	A499 SC11AR/QL11A4R R M557	471	Z X H.3/5.9 E7	355020 R32			06153 02 E 4320

EPN / CONTRACT	LEVEL	MFG EC	DESCRIPTION / USE	SAFETY FUNCTION	MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
PI-V-X250		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE RAD-RE-12A						R 537 M.8/6.3					
220	2	A	1 0 B1		M543		F13				
PI-V-X251		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE RAD-RE-12A						R 537 M.8/6.3					
220	2	A	1 0 B1		M543		F13				
PI-V-X253		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE RAD-RE-12A						R 536 J.0/4.1					
220	2	A	1 0 B1		M543		F13				
PI-V-X256		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE RAD-RE-12B						R 536 J.5/4.8					
220	2	A	1 0 B1		M543		F7				
PI-V-X257		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE RAD-RE-12B						R 536 J.5/4.8					
220	2	A	1 0 B1		M543		F7				
PI-V-X259		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE RAD-RE-12B						R 536 K.0/15.1					
220	2	A	1 0 B1		M543		F7				
PI-V-X262		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE CHS-SR-13 INLET#1 X72C						R 522 M.8/6.3					
220	2	A	1 0 B1		M543		E13				
PI-V-X263		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE CHS-SR-13 INLET#2 X72D						R 522 M.8/6.3					
220	2	A	1 0 B1		M543		E13				
PI-V-X264		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE CHS-SR-13 INLET#3 X72F						R 522 M.8/6.3					
220	2	A	1 0 B1		M543		E13				
PI-V-X265		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE CHS-SR-13 INLET#4 X82C						R 479 J.0/4.7					
220	2	A	1 0 B1		M543		D14				
PI-V-X266		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE CHS-SR-14 INLET#1 X85D						R 522 M.8/6.3					
220	2	A	1 0 B1		M543		E7				
PI-V-X267		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GATE CHS-SR-14 INLET#2 X85E						R 522 M.8/6.3					
220	2	A	1 0 B1		M543		E7				
PI-V-X268		T020		79TT-001			X X	324002			05313 11 E 4320
1" SO GLOBE CHS-SR-14 INLET#3 X73D						R 522 J.5/4.5					
220	2	A	1 0 B1		M543		E7				

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
PI-V-X269 1" SO GLOBE CHS-SR-14 INLET#4 X73C 220	2	A	1 0	B1	T020 79TT-001 M543	R 471 H.9/4.8	A X D6	324002			05313 11 E	4320
PSR-V-003/A 3/8" SOL VLV RHR LOOP A SYS BNDRY 220	2	A	1 0	B1	T020 82M-001 M896	R 432 K.9/8.7	X E12	361015			06153 14 E	4320
PSR-V-003/B 3/8" SOL VLV RHR LOOP B SYS BNDRY 220	2	A	1 0	B1	T020 82M-001 M896	R 431 L.1/8.8	X E12	361015			06153 14 E	4320
PSR-V-X73/1 CONT ISO SOL VLV PENETRATION X73F 220	2	A	1 0	B1	V030 526-5940 M896	C 522	X X J13	361014			06153 04 E	4320
PSR-V-X73/2 CONT ISO SOL VLV PENETRATION X73F 220	2	A	1 0	B1	V030 526-5940 M896	R 534 H.5/4.8	X X J12	361014			06153 14 E	4320
PSR-V-X77A/1 CONT ISO SOL VLV PENETRATION X77AC 220	2	A	1 0	B1	T020 82M-001 M896	C 501	X D E13	361015			06153 04 E	4320
PSR-V-X77A/2 CONT ISO SOL VLV PENETRATION X77AC 220	2	A	1 0	B1	T020 82M-001 M896	R 503 J.6/8.0	X X E12	361015			06153 14 E	4320
PSR-V-X77A/3 CONT ISO SOL VLV PENETRATION X77AD 220	2	A	1 0	B1	T020 82M-001 M896	C 501	X D F13	361015			06153 04 E	4320
PSR-V-X77A/4 CONT ISO SOL VLV PENETRATION X77AD	2	A	1 0	B1	T020 82M-001 M896	R 503 J.6/7.4	X X F12	361015			06153 14 E	4320
PSR-V-X80/1 CONT ISO SOL VLV PENETRATION X80E 220	2	A	1 0	B1	V030 526-5940 M896	C 522	X X K13	361014			06153 04 E	4320
PSR-V-X80/2 CONT ISO SOL VLV PENETRATION X80F 220	2	A	1 0	B1	V030 526-5940 M896	R 534 H.2/7.4	X X K12	361014			06153 14 E	4320
PSR-V-X82/1 CONT ISO SOL VLV PENETRATION X82F 220	2	A	1 0	B1	V030 526-5295 M896	R 476 H.7/7.7	X X B13	361014			06153 04 E	4320
PSR-V-X82/2 CONT ISO SOL VLV PENETRATION X82F 220	2	A	1 0	B1	V030 526-5295 M896	R 476 H.7/7.7	X X B11	361014			06153 05 E	4320

EPN / DESCRIPTION / CONTRACT LEVEL EC USE	MFG / MODEL / SAFETY FUNCTION	BLDG ELEV A/E DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ROOM ANL FO C ACCURACY FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
PSR-V-X82/7 CONT ISO SOL VLV PENETRATION X82F 220 2 A 1 0 B1	V030 526-5940	R 476 M.4/7.7 M896	A X F13	361014		06153 04 E 4320
PSR-V-X82/8 CONT ISO SOL VLV PENETRATION X82F 220 2 A 1 0 B1	V030 526-5940	R 476 M.6/7.7 M896	X X F12	361014		06153 14 E 4320
PSR-V-X83/1 CONT ISO SOL VLV PENETRATION X83A 220 2 A 1 0 B1	V030 526-5940	R 476 M.4/7.7 M896	X X J13	361014		06153 04 E 4320
PSR-V-X83/2 CONT ISO SOL VLV PENETRATION X83A 220 2 A 1 0 B1	V030 526-5940	R 476 M.6/7.7 M896	X X J11	361014		06153 15 E 4320
PSR-V-X84/1 CONT ISO SOL VLV PENETRATION X84F 220 2 A 1 0 B1	V030 526-5940	R 477 J.0/4.9 M896	X X H12	361014		06153 04 E 4320
PSR-V-X84/2 CONT ISO SOL VLV PENETRATION X84F 220 2 A 1 0 B1	V030 526-5940	R 477 J.0/4.9 M896	X X H11	361014		06153 14 E 4320
PSR-V-X88/1 CONT ISO SOL VLV PENETRATION X88 220 2 A 1 0 B1	V030 526-5295	R 455 N.2/6.1 M896	A X D13	361014		06153 04 E 4320
PSR-V-X88/2 CONT DSO VLO PENETRATION X88 220 2 A 1 0 B1	V030 526-5295	R 455 N.2/6.2 M896	A X D11	361014		06153 14 E 4320
RCC-DPIS-10A RCC TO FUEL POOL HX1A 220 2 P 2 0 G	B080 288A	R 522 J.0/6.7 M525	X X G5	086001 R51	E-IR-71+	05253 04 E 4320
RCC-DPIS-10B RCC TO FUEL POOL HX1B 220 2 P 2 0 G	B080 288A	R 522 N.0/8.1 M525	X X F6	086001 R53	E-IR-69+	05253 04 E 4320
RCC-MO-104 MOTOR OPERATOR FOR RCC-V-104 215 2 A 1 0 B1	L200 SHB-0	R 517 K.0/4.3 M525	A X E11	221001 P Y 114	33+ RCC-V-104+	10 4320
RCC-MO-129 MOTOR OPERATOR FOR RCC-V-129 41A 2 A 1 0 B2	L200 SHB-00	R 560 K.5/8.9 M525	C X E5	221001 P 114	33+ RCC-V-129+	10 4320
RCC-MO-130 MOTOR OPERATOR FOR RCC-V-130 41A 2 A 1 0 B2	L200 SHB	R 559 K.6/9.3 M525	A X F6	221001 P 114	33+ RCC-V-130+	10 C 4320

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
RCC-MO-131 MOTOR OPERATOR FOR RCC-V-131 41A	2	A	1 0	B2	L200 H525	R 559	K.5/9.2 E6	A X	221001	P 114		33+	10 C RCC-V-131+	4320
RCC-MO-21 1HP 2.8A MOTOR OPERATOR RCC-V-21 41A	2	A	1 0	B1	L200 H525	R 515	K.7/4.1 D10	A X	221001	P Y 114 R42 R312		33+	RCC-V-21+	4320
RCC-MO-40 0.7HP 2.3A MOTOR OPERATOR RCC-V-40 41A	2	A	1 0	B1	L200 H525	C 517 78 D	AZ D11	A X	221001	P Y 114 C47		33+	RCC-V-40+	4320
RCC-MO-5 1HP 2.8A MOTOR OPERATOR RCC-V-5 41A	2	A	1 0	B1	L200 H525	R 515	K.8/4.1 E10	A X	221001	P Y 114 R42 R312		33+	RCC-V-5+	4320
RCIC-CNTR-C002 RCIC TRIP CONTACTOR 02	2	A	1 1	L	S345 TYPE HCG-1	R 422	H.6/7.4	Y R	318001				06153 05 E RCIC-DT-1+	24
RCIC-DPIS-13A RCIC STM SUPPLY HI FLOW H22-P017 02E51	2	A	1 1	B1.L	B080 288A H519	R 471	L.0/8.0 G7	Y X	086001	R N 121 R33 R206		09	E-IR-P017+	24
RCIC-DPIS-13B RCIC STM SUPPLY HI FLOW H22-P029 02E51	2	A	1 1	B1.L	B080 288A H519	R 471	K9/3.9 F7	A X	086001	R N 121 R32 R206		09	E-IR-P029+	24
RCIC-DPIS-7A RCIC STM SUPPLY HI FLOW H22-P017 02E51	2	A	1 1	B1.L	E080 288A H519	R 471	L.0/8.0 G7	Y X	086001	R N 121 R33 R206		09	E-IR-P017+	24
RCIC-DPIS-7B RCIC STM SUPPLY HI FLOW H22-P029 02E51	2	A	1 1	B1.L	B080 288A H519	R 471	K9/3.9 F7	Y X	086001	R N 121 R32 R206		09	E-IR-P029+	24
RCIC-DPS-14 RCIC LUBE FILTER D PRESS SWITCH 02	2	P	2 1	G	S345 AEW9012 H519	R 422	D12	X D	090006	R11			06153 02 E RCIC-DT-1+	24
RCIC-EHO-C002 RCIC HYDRAULIC ACT ON TURB 02	2	A	1 1	L	W290 EGR-A8250-133	R 422	H.6/7.4	A R	318001				06153 05 E RCIC-DT-1+	24
RCIC-FIS-2 RCIP PUMP DISCHARGE FLOW H22-P017 02E	3	A	1 1	B1.L	B080 288A H519	R 471	L.0/8.0 H7	Y X	140001	R33			E-IR-P017+	24
RCIC-FT-3 FLOW TRANSMITTER H22-P017 02E51	2	A	1 1	J.L	R369 1151DP5A22HBX H519	R 474	L.0/8.0 H8	Y P	156005	R N 114 R33 R206		50	E-IR-P017+	4320

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / DRAWING / A/E ZONE	STATUS S E / DETAIL	QID / TM / ZONE	***SEISMIC (S) PARAMETERS*** HL / TEST / ROOM	ANL / FO / ACCURACY	C	FREQ	*ENV. (E) PARAMETERS* AGING / DBE / COMPOSITE EPN	C	HOURS
RCIC-LS-10 LEVEL SWITCH FOR 8" DRIP POT 02E51	2	A	1 1	L	M040 5.0-751-1X-MPG-M13HY R 426 J7/7.3 M519	X X F9	207004 W R11	N 14 R6	00		17	06153	05	E 24
RCIC-LS-11 RCIC BAR COND VACUUM TANK LEVEL 02	2	P	2.0	L	S345 9038-AG1-S4 R 422 H.6/7.1 M519	X C9	090006 R11					06153	05	E 24
RCIC-LS-15A RCIC-P-1 EMERGENCY SWITCHOVER 215	2	A	1 1	L	M040 3.5-751-1X-MPG-M14HY R 446 H.4/5.0 M527	X X J8	207002 R					06153	02	E 24
RCIC-LS-15B RCIC-P-1 EMERGENCY SWITCHOVER 215	2	A	1 1	L	M040 3.5-751-1X-MPG-M14HY R 446 H.4/5.0 M527	X X J7	207002 R					06153	02	E 24
RCIC-LS-3 LEVEL SW. TURB EXH DRIP LEG LEVEL 215	2	P	2 1	L	M040 751-SPX-M14 R 426 H.4/7.4 M519	X X D12	207011 R11	Y 21	00		17	06153	05	E 24
RCIC-LS-4 RCIC STM TRAP 4 TO RHR HX DRP LEG 215	2	P	2 1	L	M040 402-XXS-SP-M14 R 565 J.0/9.0 M519	X X H14	207020 R61	Y 21	00		17	06153	01	E 24
RCIC-LS-5 RCIC STM TRAP 5 TO RHR HX DRP LEG 215	2	P	2 1	L	M040 402-XXS-SP-M14 R 563 N.0/9.0 M519	X X H14	207020 R63	Y 21	00		17	06153	01	E 24
RCIC-LS-6 RCIC STM TRAP 6 TO RHR HX DRP LEG 215	2	P	2 1	L	M040 402-XXS-S1-M14 R 550 L.8/4.3 M519	X X G14	207011 R63	Y 21	10		17	06153	05	E 24
RCIC-M-P/3 15HP MTR FOR RCIC-P-3 35A	2	A	1 1	L	W120 TRDP/256T R 422 J.0/8.3 M519	X R B14	213016 R11	R15				06153 RCIC-P-3+	05	E 24
RCIC-MO-1 MOTOR OPERATOR RCIC-V-1 02E51	2	A	1 1	L	L200 SMB-000-2 R 430 H.6/7.2 M519	D X E11	221001 P R11	N 114 R15			33+	RCIC-V-1+	C	24
RCIC-MO-10 1.08HP DA MOTOR OPER. RCIC-V-10 41A	2	A	1 1	L	L200 SMB-00-15 R 430 H.4/6.6 M519	A X B14	221001 P R11	N 114 R15			33+	RCIC-V-10+	00	24
RCIC-MO-13 2.9HP MOTOR OPERATOR RCIC-V-13 41A	2	A	1 1	B1.L	L200 SMB-0-40 R 552 5.5/M.6 M519	A X H7	221001 P R63	Y 114 R511			33+	RCIC-V-13+		4320
RCIC-MO-19 2.0HP MOTOR OPERATOR RCIC-V-19 215	2	A	1 1	B1.L	L200 SMB-000-5 R 467 J.4/7.7 M519	C X F7	221001 P R21	Y 114 R116			33+	06153 RCIC-V-19+	10	4320

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	TM / ROOM	SEISMIC (S) PARAMETERS HL TEST ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING DBE C / COMPOSITE EPN	HOURS
RCIC-MO-22 MOTOR OPERATOR RCIC-V-22 41B	2	A	1 1	L	L200 M519	R 441	A X J8	221001 R21	P N 114 R112		33+	06153 05 E RCIC-V-22+	24
RCIC-MO-31 1HP 9.6A MOTOR OPERATOR RCIC-V-31 41A	2	A	1 1	B1,L	L200 M519	R 450	A X D7	221001 R21	P Y 114 R112		33+	10 C RCIC-V-31+	4320
RCIC-MO-45 1.1HP MOTOR OPERATOR RCIC-V-45 41B	2	A	1 1	L	L200 M519	R 430	A X E11	221001 R11	P N 114 R15		33+	00 C RCIC-V-45	24
RCIC-MO-46 2.9HP 11A MOTOR OPER. RCIC-V-46 215	2	A	1 1	L	L200 M519	R 430	B X F11	221001 R11	P 114 R15		33+	06153 05 RCIC-V-46+	24
RCIC-MO-59 2.9HP MOTOR OPERATOR RCIC-V-59 41A	2	A	1 1	L	L200 M519	R 446	A X J8	221001 R21	P N 114 R112		33+	RCIC-V-59+	24
RCIC-MO-63 7HP 10.7A MOTOR OPER. RCIC-V-63 41A	2	A	1 1	B1,L	L200 M519	C 555 131 D AZ	A X H5	221001 R19 C67	P Y 114		33+	RCIC-V-63+	4320
RCIC-MO-64 5.8HP 20A MOTOR OPER. RCIC-V-64 41A	2	A	1 1	B1,L	L200 M519	R 556 L.9/4.6	A X G6	221001 R63	P Y 114 R510		33+	RCIC-V-64+	4320
RCIC-MO-68 1.08HP MOTOR OPERATOR RCIC-V-68 41A	2	A	1 1	B1,L	L200 M519	R 474 J.1/7.5	A X E7	221001 C34	P Y 114		33+	RCIC-V-68+	4320
RCIC-MO-69 2.0HP MOTOR OPERATOR RCIC-V-69 215	2	A	1 1	B1,L	L200 M519	R 466 H6/6.6	A X E7	221001 R21	P Y 114 R112		33+	10 C RCIC-V-69+	4320
RCIC-MO-76 RHR-LAS-6058 215	2	A	1 1	B1,L	L200 M519	C 556 125 D AZ	A X H6	221001 C67	P Y 114		33+	RCIC-V-76+	4320
RCIC-MO-8 .54HP/5.5A MOTOR OPER FOR RCIC-V-8 41A	2	A	1 1	B1,L	L200 M519	R 515 J.0/5.0	A X F6	221001 R42	P N 114 R308		33+	RCIC-V-8+	4320
RCIC-MO-80 MOTOR OPER FOR RCIC-V-110 215	2	A	1 1	B1,L	L200 M519	R 476 J.2/7.2	A X F7	221001 C34				10 C RCIC-V-110+	4320
RCIC-MO-86 MOTOR OPER FOR RCIC-V-113 215	2	A	1 1	B1,L	L200 M519	R 476 J.2/7.2	B X F7	221001 C34				10 C RCIC-V-113+	4320

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS / DETAIL	S	E	QID / ZONE	TH	HL	TEST	ANL	FO	C	FREQ / ACCURACY	ROOM	AGING	DBE	C	HOURS / COMPOSITE EPN
RCIC-POS-V/1			N007		D1200G			R											05253	01	C	24
TURB TRIP THROTTLE VALVE POSIT SW						R 427	H.6/7.4												RCIC-V-1+			
02	2	A	1 1	L		M519				E11												
RCIC-POS-V/25			N007	18031302				R	X	200006										00	C	24
LIMIT SWITCH RCIC-V-25						R 423	H.5/7.0												RCIC-V-25+			
58	2	P	2 1	L		M519				E9												
RCIC-POS-V/26			N007	18031302				R	X	200006										00	C	24
LIMIT SWITCH RCIC-V-26						R 423	H.5/7.0												RCIC-V-26+			
2	2	P	2 1	L		M519				E9												
RCIC-POS-V/4			N007	18031302					X	200006										00	C	24
LIMIT SWITCH RCIC-V-4						R 423	N.5/6.8												RCIC-V-4+			
58	2	P	2 1	L		M519				B10												
RCIC-POS-V/5			N007	18031302				R	X	200006										00	C	24
LIMIT SWITCH RCIC-V-5						R 423	H.3/6.8												RCIC-V-5+			
02	2	P	2 1	L		M519				B10												
RCIC-POS-V/54			N007	18031302				R	X	200006										00	C	24
LIMIT SWITCH RCIC-V-54						R 423	H.7/7.0			R11									RCIC-V-54+			
02	2	P	2 1	L		M519				F9												
RCIC-PS-1			A499	SC11AR				X	R	256001	R	N	114				50		06153	05	E	24
AUX. COOLING SUPPLY - -						R 424	H.6/7.3			R11												
220	2	P	2 0	L		M519				G9												
RCIC-PS-12A			B069	P1H-M85SS-V				Y	R	256005	R	N										24
PS 12A FOR TURBINE DISCH H22-P017						R 475	L.0/8.0			R33		R206							E-IR-P017+			
02E	2	A	1 1	L		M519				C11												
RCIC-PS-12B			B069	P1H-M85SS-V				Y	R	256005	R	N										24
EXHAUST DIAPHRAGM			H22-P029			R 475	L.0/4.0			R32		R206							E-IR-P029+			
02E	2	A	1 1	L		M519				C11												
RCIC-PS-12C			B069	P1H-M85SS-V				Y	R	256005	R	N										24
PS 12C FOR TURBINE DISC H22-P017						R 473	L.0/8.0			R33		R206							E-IR-P017+			
02E	2	A	1 1	L		M519				C11												
RCIC-PS-12D			B069	P1H-M85SS-V				Y	R	256005	R	N										24
EXHAUST DIAPHRAGM			H22-P029			R 473	L.0/4.0			R32		R206							E-IR-P029+			
02E	2	A	1 1	L		M519				C11												
RCIC-PS-20			B069	P1H-M340SS-V				Y	R	256005	R	N										24
RCIC PUMP DISCH H22-P017						R 474	L.0/8.0			R33		R206							E-IR-P017+			
02E	2	A	1 1	L		M519				J8												
RCIC-PS-21			B069	P1H-M85SS-V				Y	R	256005	R	N										24
RCIC-P-1 SUCT AL HIGH H22-P017						R 473	L.1/8.2			C34									E-IR-P017+			
02H	2	P	2 1	L		M519				D13												

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE / TH / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY / FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
RCIC-PS-22A STM LINE PRESSURE H22-P017 02E	2	A	1 1	B1,L	B069 P1H-M34SS-V R 474 M519	A X L.0/8.0 G8	256005 R R33	N R206	24 E-IR-P017+
RCIC-PS-22B PENETRATION MONITORING 02E	2	A	1 1	B1,L	B069 P1H-M34SS-V H22-P029 R 473 M519	A X L.0/4.0 F8	256005 R R32	N R206	24 E-IR-P029+
RCIC-PS-22C STM LINE PRESSURE H22-P017 02E	2	A	1 1	B1,L	B069 P1H-M34SS-V R 475 M519	Y X L.0/8.0 G8	256005 R R33	N R206	24 E-IR-P017+
RCIC-PS-22D PENETRATION MONITORING 02E31	2	A	1 1	B1,L	B069 P1H-M344S-V H22-P029 R 473 M519	A X L.0/4.0 F8	256005 R R32	N R206	24 E-IR-P029+
RCIC-PS-34 RCIC-P-1 SUCTION PRESSURE 02E51	2	P	2 0	L	R290 613 R 437 M519	X R H.7/7.3 C13	256014 W R11	N 03	06303 06 E 24
RCIC-PS-6 RCIC PUMP SUCTION PRESS H22-P017 02E51	2	A	1 1	L	S382 6N-AA21-(X10)-VS1TT R 471 M519	X R L.0/8.0 D13	256016 R R33	N 114 33+ R206	24 E-IR-P017+
RCIC-PS-7 RCIC LUBE OIL LOW PRESS SWITCH 02	2	P	2 1	L	S345 9012ACW R 422 M519	X R D11	256015		06153 02 E 24 RCIC-DT-1+
RCIC-PS-9A RCIC TURBINE DISC PS-9A 220	2	A	1 1	L	B069 P1H-M85SS-V R 427 M519	A R H.4/8.5 F12	256005 R R33	N R206 V	24
RCIC-PS-9B RCIC TURBINE DISC PS-9B 220	2	A	1 1	L	P069 P1H-M85SS-V R 427 M519	A R H.4/8.5 E12	256005 R R33	N R206 V	24
RCIC-PT-4 TURB STM DISC PRESS 0-200 H22-P017 02	2	P	2 1	L	P040 556 R 473 M519	Y R K.9/8.2 J8	259001 R33		03153 10 E 24 E-IR-P017+
RCIC-PT-5 RCIC PUMP SUCTION 02	2	P	2 1	L	B040 556 H22-P017 R 473 M519	Y R L.1/8.2 C12	259001 R R33	N 04	05 S 24 E-IR-P017+
RCIC-PT-7 TB STEAM INLET 02	2	P	2 1	L	P040 556 H22-P017 R 473 M519	Y R K.9/8.2 F8	259001 R33		03153 10 E 24 E-IR-P017+
RCIC-PT-8 TURBINE EXHAUST PRESSURE H22-P017 02	2	P	2 1	L	P040 556 R 473 M519	A R L.0/8.2 D12	259001 R R33	N 04	05 S 24 E-IR-P017+

EPN / DESCRIPTION	MFG	MODEL	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL	QID / ZONE	TM	SEISMIC (S) PARAMETERS HL TEST / ROOM	ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING	DBE	C	HOURS / COMPOSITE EPN
CONTRACT LEVEL EC USE SAFETY FUNCTION			A/E ZONE										
RCIC-RLY-CR1	S440	219BBXP-DC		R	283041					06153	05	E	4320
RCIC-V-45 POS IND RLY			R 422 H.4/7.1							E-JB-TB/R435+			
218 3 A 1 1 .61.L			E546/15										
RCIC-RLY-CR2	S440	219BBXP-DC		R	283041					06153	05	E	24
RCIC-V-45 POS IND RLY			R 422 H.4/7.1							E-JB-TB/R435+			
218 3 A 1 1 L			E546/15										
RCIC-SE-C002	W290	1680-622		X R	318001					06153	05	G	24
RCIC MAGNETIC PICKUP SENSOR			R 422 H.6/7.4							RCIC-DT-1+			
02 2 A 1 1 L													
RCIC-SPV-25	A499	NP831654E		X X	315006	R	N 114	03	33+				24
SPV-RCIC-V-25 STM SPLY LNE IR-62			R 478 H.4/6.8		R31		R206			E-IR-62+			
58 2 A 1 1 L			M519		D9								
RCIC-SPV-26	A499	NP831654E		X X	315006	R	N 114	03	33+				24
SPV-RCIC-V-26 STM SPLY LNE DR			R 504 L.4/9.3		R43		R306			E-IR-63+			
58 2 A 1 1 L			M519		D9								
RCIC-SPV-4	A499	NP831654E		X X	315006	R	N 114	03	33+				24
PILOT VALVE FOR AO RCIC-V-4 IR-62			R 478 H.4/6.8		R31		R206			E-IR-62+			
58 2 A 1 1 L			M519		B10								
RCIC-SPV-5	A499	NP831654E		X X	315006	R	N 114	03	33+				24
PILOT VALVE FOR AO RCIC-V-5			R 506 L.4/9.3		R43		R306			E-IR-63+			
58 2 A 1 1 L			M519		B10								
RCIC-SPV-54	A499	NP831654E		X X	315006	R	N 114	03	33+				24
SPV FOR RCIC-V-54 IR-62			R 477 H.4/6.8		R31		R206			E-IR-62+			
58 2 A 1 1 L			M519		E9								
RCIC-SS-1	P302	BZLN2		X R	318001	R	N	03				G	24
RCIC TURB MECH OVER SPEED TRIP			R 427 H.7/6.9							RCIC-DT-1+			
02 3 P 1 1 L			807E173TC/		6								
RCIC-SV-C002	G080	CR9503		X R	318001	R	N	03				G	24
TURB TRIP THROT VALVE			R 423 H.3/7.1							RCIC-DT-1+			
3 P 1 1 L			807E173TC/		6C8								
RCIC-TIS-10A	A502	1165		X X	318001					06153	02	E	24
RCIC BRG TEMP IND SW (GOVERNER)			R 422		R11					RCIC-DT-1+			
02 2 P 2 1 L			M519		D12								
RCIC-TIS-10B	A502	1165		X X	318001					06153	02	E	24
RCIC BRG TEMP IND SW (COUPLING)			R 422		R11					RCIC-DT-1+			
02 2 P 2 1 L			M519		D12								
REA-DPT-1A1	R369	1151DP3022NBGE01		X X	091001	W	N 114		50				4320
SECONDARY CONTAINMNTPRESS.CONTROL			R 576 H.3/8.2		R72		R608						
59 2 A 1 3 F			M545		F2								

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / DRAWING	A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TM	HL TEST ANL FO C / ROOM / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING / COMPOSITE EPN	DBE	C	HOURS
REA-DPT-1A2 SECONDARY CONTAINMNTPRESS.CONTROL 59	2	A	1 3 F		R369 1151DP3022MBGE01 R 576 H545	M.7/3.5 E1	X X R	091001 R73	W	N 114 R604	50				4320
REA-DPT-1A3 SECONDARY CONTAINMNTPRESS.CONTROL 59	2	A	1 3 F		R369 1151DP3022MBGE01 R 576 H545	M.8/3.9 E1	X X R	091001 R73	W	N 114 R604	50				4320
REA-DPT-1A4 SECONDARY CONTAINMNTPRESS.CONTROL 59	2	A	1 3 F		R369 1151DP3022MBGE01 R 576 H545	M.8/9.4 E1	X X R	091001 R71	W	N 114 R507	50				4320
REA-DPT-1B1 SECONDARY CONTAINMNTPRESS.CONTROL 59	2	A	1 3 F		R369 1151DP3022MBGE01 R 576 H545	H.3/5.3 D2	X X R	091001 R71	W	N 114 R504	50				4320
REA-DPT-1B2 SECONDARY CONTAINMNTPRESS.CONTROL 59	2	A	1 3 F		R369 1151DP3022MBGE01 R 576 H545	N.7/3.5 D2	X X R	091001 R73	W	N 114 R605	50				4320
REA-DPT-1B3 SECONDARY CONTAINMNTPRESS.CONTROL 59	2	A	1 3 F		R369 1151DP3022MBGE01 R 576 H545	N.8/7.6 D1	X X R	091001 R73	W	N 114 R604	50				4320
REA-DPT-1B4 SECONDARY CONTAINMNTPRESS.CONTROL 59	2	A	1 3 F		R369 1151DP3022MBGE01 R 576 H545	N.1/9.4 D1	X X R	091001 R73	W	N 114 R605	50				4320
REA-M-AD/8 MOTOR FOR REA-AD-8 	2	A	1 0 J		B066 MA418 R 559 H545	L.0/8.1 F10	R	221002		REA-AD-8*		06153 03 E			4320
REA-POS-AD/8 POS FOR REA-AD-8 	2	A	1 0 J		N007 EA70050100 R H545	L.0/8.1 F10	Z R	200014		REA-AD-8*		05123 04 S			4320
REA-POS-V/1 POS SWITCH FOR REA-V-1 68	2	A	1 3 F1		N007 EA740 R 593 H545	H.5/6.0 J3	A X R73	200015		REA-V-1*		00			4320
REA-POS-V/2 POS SWITCH FOR REA-V-2 68	2	A	1 3 I		N007 EA740 R 593 H545	H.5/6.2 J3	A X R73	200015		REA-V-2*		00			4320
REA-RE-9A R BLDG VENT RAD ELEMENT 02D17	2	A	1 3 F,P2		G080 TYPE 194X927G11 R 591 H545	H.1/4.3 K6	R X R73	277001				06153 10 F			4320
REA-RE-9B EXH AIR PLENUM RAD DETECTOR 02D17	2	A	1 3 B2,F		G080 TYPE 194X927G11 R 591 H545	H.5/4.3 F1	R X R73	277001				06153 00 E			4320

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / HL TEST / ROOM	ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / DBE / COMPOSITE EPN	C	HOURS
REA-RE-9C R BLDG VENT RAD ELEMENT 02D17	2	A	1 3	F,B2	G080 TYPE 194X927G11 M545	R 591 M.5/4.3	R X K6	277001	R73			06153	00	E 4320
REA-RE-9D EXH AIR PLENUM RAD DETECTOR 02D17	2	A	1 3	B2,F	G080 TYPE 194X927G11 M545	R 591 M.5/4.3	R X F1	277001	R73			06153	00	E 4320
REA-RLY-CR1 CONTROL RELAY FOR ISOLATION VALVES 59	3	P	2 3	G1	A500 RXMK1 E519-12	R 527 J.0/6.9	X X	283011	R N 021			06153 E-IR-71+	14	4320
REA-RLY-CR2 CONTROL RELAY FOR ISOLATION VALVES 59	3	P	2 3	G1	A500 RXMK1 E519-12	R 554 H.7/8.2	X X	283011	R N 021			06153 E-IR-68+	04	4320
REA-SPV-V/1 REACTOR BLDG NORMAL EXHAUST PILOT 58	2	A	1 3	B2,F	A499 WJHT8316E35 M545	R 522 J.0/6.9	X X K3	315004	R N 114 03 R73 R604		33+	 E-IR-71+		4320
REA-SPV-V/2 REACTOR BLDG NORMAL EXHAUST PILOT 58	2	A	1 3	B2,F	A499 WJHT8316E35 M545	R 551 H.7/8.2	X X K3	315004	R N 114 03 R73 R604		33+	 E-IR-68+		4320
RFW-DPT-17 RFW LEVEL WIDE RANGE 02	2	P	2 0	G	G080 555 M529	R 522 M.8/6.6	Y X J5	156003				05253 E-IR-P027+	04	G 4320
RFW-DPT-4A RFW LEVEL CONTROL 02	2	P	2 0	G	F130 546 M529	R 522 J.5/7.2	Y X H12	182001	R51			06153 E-IR-P004+	04	G 4320
RFW-DPT-4B RFW LEVEL CONTROL 02	2	P	2 0	G	F130 546 M529	R 522 M.8/6.6	Y X J5	182001	R51			06153 E-IR-P027+	04	G 4320
RFW-DPT-4C RFW LEVEL CONTROL 02	2	P	2 0	G	F130 546 M529	R 522 N.7/5.6	Y X J5	182001	R51			06153 E-IR-P005+	04	G 4320
RFW-MO-65A 32.4HP MOTOR OPERATOR RFW-V-65A 41A	2	A	1 3	B1	L200 SMB-4-250 M529	R 505 H4/5.7	A X G13	221001	P Y 114 R41 R310		33+	 RFW-V-65A+		4320
RFW-MO-65B 32.4HP MOTOR OPERATOR RFW-V-65B 41A	2	A	1 3	B1	L200 SMB-4-250 M529	R 505 H4/6.3	A X G4	221001	P Y 114 R41 R310		33+	 RFW-V-65B+		4320
RFW-SPV-32A1 SOLENOID PILOT FOR RFW-V-32A IR-62 58	2	A	1 3	B1	A499 WJHT831654 M529	R 506 N.0/4.9	X X G12	315004	R N 114 03 R31 R206		33+	 E-IR-64+		4320

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL A/E ZONE	QID / ZONE	TH / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
RFW-SPV-32A2 SOLENOID PILOT FOR RFW-V-32A IR-62 58	2	A	1 3	B1	A499 WJHT831654 M529	R 505 N.0/4.9	X X G12	315004 R31	R 114 R206	03	33+	E-IR-64+	4320
RFW-SPV-32B1 SOLENOID PILOT FOR RFW-V-32B IR-62 58	2	A	1 3	B1	A499 WJHT831654 M529	R 506 N.0/4.9	X X G5	315004 R31	N 21 R206	00	33+	E-IR-64+	4320
RFW-SPV-32B2 SOLENOID PILOT FOR RFW-V-32B IR-62 58	2	A	1 3	B1	A499 WJHT831654 M529	R 505 N.0/4.9	X X G5	315004 R31	N 21 R206	00	33+	E-IR-64+	4320
RHR-CE-1A CONDUCTIVITY ELEMENT FOR RHR-HX-1A 02E12	2	P	2 0	G	B135 CEL-IT(SS)X3-002-KGX35-Y69X2-Y M521/1	R 559 J.8/8.9	X X G12	038001 R61				05253 00 E	4320
RHR-CE-1B RHR CONDUCTIVITY - - 02E12	2	P	2 0	G	B135 CEL-IT(SS)X3-002-KGX35-Y69X2-Y M521/2	R 559 M.1/9.0	X X G7	038001 R63				05253 00 E	4320
RHR-DPIS-12A RHR HIGH FLOW LEAK DETECTION 02E12	2	A	1 0	B1	B080 288A M530	R 501 J.6/3.6	Y X G12	086001 R42	N 14 R305	00	33+	E-IR-P018+	4320
RHR-DPIS-12B RHR HIGH FLOW LEAK DETECTION 02E12	2	A	1 0	B1	B080 288A M521/1	R 505 H.9/9.3	Y X D7	086001 R41	N 14 R305	00	33+	E-IR-P021+	4320
RHR-FIS-10A SHUTDOWN COOLING LOOP "A" FLOW 02E12	3	A	1 0	C,E	B080 288 M521/1	R 505 J.6/3.6	A X H12	140001 R42	R N 121		10	E-IR-P018+	4320
RHR-FIS-10B SHUTDOWN COOLING LOOP "B" FLOW 02E12	3	A	1 0	C,F	B080 288 M521/2	R 503 H.9/9.3	A X H4	140001 R43	R N 121		10	E-IR-P021+	4320
RHR-FIS-10C LOOP "C" FLOW TO VESSEL 02E12	3	A	1 0	C,F	B080 288 M521/2	R 505 H.7/9.3	A X E6	140001 R42	R N 121		10	E-IR-P021+	4320
RHR-FT-1 HEAT EXCH B-REMOTE SHUTDOWN 02C61	2	P	2 0	G	P040 50-555111BHANCG M521/2	R 503 J.3/9.4	X X H10	156003 W21				05253 01 E	4320
RHR-FT-13 FLOW TRANSMIT TO REACTOR HD SPRAY(RM 11) 02E12	3	P	2 3	G	G080 555-111BHAA4WCF M521/2	R 552 M.6/5.3	X X J12	156003 R63	W			E-IR-P021+	4320
RHR-FT-15A FLOW TRANSMIT TO COOLING LOOP A 02	3	A	1 3	I	R369 1151DP5E22 M521/1	R 503 J.6/3.6	Y X G10	156005 R42	N 14	00	33+	E-IR-P018+ 10 P	4320

EPN / DESCRIPTION	MFG	MODEL	STATUS S E	QID	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C	FREQ	*ENV. (E) PARAMETERS* AGING DBE C	HOURS
CONTRACT LEVEL EC USE SAFETY FUNCTION	BLDG ELEV A/E DRAWING	A/E ZONE	DETAIL	ZONE	ROOM	ACCURACY	COMPOSITE EPN	
RHR-FT-15B	B040	555111BMAA4WCF	P P	156003			05153 00 P	4320
FLOW TRANSMIT TO COOLING LOOP B	R	503 H.8/9.3		R41			E-IR-P021+	
02E12 3 A 1 3 I	M521/2		H10					
RHR-FT-15C	B040	555111BMAA4WCF	P P	156003			05153 00 P	4320
FLOW TRANSMITTER TO LOOP C	R	501 H.9/9.3		R41			E-IR-P021+	
02E12 3 A 1 0 I	M521/2		E7					
RHR-LS-10A	M040	751-SPX-M14	Y X	207011				4320
RHR DRAIN POT LOOP B	R	475 M.4/8.0		R33				
215 2 P 2 1 C	M521/2		E4					
RHR-LS-10B	M040	751-SPX-M14	Y X	207011				4320
RHR DRAIN POT LOOP B	R	475 M.4/8.0		R33				
215 2 P 2 1 C	M521/2		E4					
RHR-LS-10C	M040	751-SPX-M14	Y X	207011				4320
RHR DRAIN POT LOOP B	R	475 M.3/8.0		R33				
215 2 P 2 1 C	M521/2		E5					
RHR-LS-10D	M040	751-SPX-M14	X X	207011				4320
RHR DRAIN POT LOOP B	R	475 M.3/8.6		R33				
215 2 P 2 1 C	M521/2		E3					
RHR-LS-11A	M040	751-SPX-M14	X X	207011				4320
RHR DRAIN POT LOOP A	R	475 K.3/8.0		R31				
215 2 P 2 1 C	M521/1		C14					
RHR-LS-11B	M040	751-SPX-M14	X X	207011				4320
RHR DRAIN POT LOOP A	R	475 K.3/8.0		R31				
215 2 P 2 1 C	M521/1		C13					
RHR-LS-11C	M040	751-SPX-M14	X X	207011				4320
RHR DRAIN POT LOOP A	R	475 K.1/7.9		R31				
215 2 P 2 1 C	M521/1		C13					
RHR-LS-11D	M040	751-SPX-M14	X X	207011				4320
RHR DRAIN POT LOOP A	R	475 K.1/7.9		R31				
215 2 P 2 1 C	M521/1		C12					
RHR-LT-8A	B080	352/368	X X	209001	N 21 00	00	06153 00 P	4320
LEVEL TRANSMITTER HX-A	R	548 J.0/8.6		R61			RHR-HX-1A+	
220 2 P 2 1 G	M521/1		G13					
RHR-LT-8B	B080	352/368	X X	209001	N 21 00	00	06153 00 P	4320
LEVEL TRANSMITTER HX-B	R	548		R63			RHR-HX-1B+	
220 2 P 2 1 G	M521/2		G5					
RHR-M-P/2A	C080	5K6339YC122A/P236	R X	213032	N		05153 10 E	4320
MOTOR FOR RHR-P-2A	R	429 K.2/6.6		R11	R6		RHR-P-2A+	
02E12 2 A 1 3 C,F	M521/1		D12					

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL	BLDG ELEV A/E DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	TH HL TEST ANL FO C ROOM ACCURACY	***SEISMIC (S) PARAMETERS*** FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
RHR-M-P/2B MOTOR FOR RHR-P-2B 02E12 2 A 1 3 C,E	G080 5K6339XC122A/PZ36	R 429 M521/2	R X L.8/8.5 D5	213032 R13	N R7		05153 00 E 4320 RHR-P-2B+
RHR-M-P/2C MOTOR FOR RHR-P-2C 02E12 2 A 1 0 C,F	G080 5K6339XC122A/PZ36	R 429 M521/2	R X H.7/4.6 D6	213032 R12	N R14		05153 00 E 4320 RHR-P-2C+
RHR-M-P/3 MOTOR FOR RHR-P-3 35A 2 A 1 3 C,E	M120 75D40786	R 422 M521/2	X X H.4/4.9 C8	213016 R12	R14		4320 RHR-P-3+
RHR-MO-11A .33HP .95A MOTOR OPER. RHR-V-11A 41A 2 A 1 1 B1	L200 SMB-000-5	R 475 M521/1	A X K.2/8.1 E11	221001 P R31	Y 114 R213	33+	24 RHR-V-11A+
RHR-MO-11B .333HP MOTOR OPERATOR RHR-V-11B 41A 2 A 1 1 B1	L200 SMB-000-5	R 475 M521/2	A X L.8/8.1 C12	221001 P R33	Y 114 R214	33+	24 RHR-V-11B+
RHR-MO-124A 1HP MOTOR OPERATOR RHR-V-124A 215 2 A 1 1 B1	L200 SMC-043D0583A	R 473 M521/1	A X K.7/6.1 E14	221001 R31	N 14 00 R213	33	10 C 24 RHR-V-124A+
RHR-MO-124B 5.3HP/16.8-8.4A MO FOR RHR-V-124B 215 2 A 1 1 B1	L200 SMC-043D0583A	R 473 M521/1	A X K.9/8.1 C13	221001 R31	N 14 00 R213	33	10 C 24 RHR-V-124B+
RHR-MO-125A .33HP MOTOR OPERATOR RHR-V-125A 215 2 A 1 1 C	L200 SMC-043D0583A	R 473 M521/2	A X L.7/8.0 D4	221001 R33	R214		10 C 24 RHR-V-125A+
RHR-MO-125B .33 HP MOTOR OPERATOR RHR-V-125B 215 2 A 1 1 C	L200 SMC-043D0583A	R 473 M521/2	A X L.6/8.0 D4	221001 R33	N 14 00 R214	33	10 C 24 RHR-V-125B+
RHR-MO-134A MOTOR OPERATOR RHR-V-134A 215 2 A 1 0 D	L200 SMC-04-5	R 548 M521/1	A X K.1/9.0 E14	221001 P R61	114 R504	33+	10 C 4320 RHR-V-134A+
RHR-MO-134B MOTOR OPERATOR RHR-V-134B 215 2 A 1 0 D	L200 SMC-04-5	R 551 M521/2	A X L5/9.2 E5	221001 P R63	114 R506	33+	10 C 4320 RHR-V-134B+
RHR-MO-16A 10.6HP 13.8A MOTOR OPER. RHR-V-16A 41A 2 A 1 0 B1	L200 SB-2-80	R 556 M521/1	A X L.0/4.4 H7	221001 P R63	Y 114 R510	33+	24 RHR-V-16A+
RHR-MO-16B 10.6HP 13.8A MOTOR OPER. RHR-V-16B 41A 2 A 1 0 B1	L200 SB-2-80	R 516 M521/2	A X K.7/8.1 D10	221001 P R41	Y 114 R305	33+	24 RHR-V-16B+

EPN / CONTRACT	LEVEL	MFG EC	DESCRIPTION USE	SAFETY FUNCTION	MODEL A/E	BLDG	ELEV DRAWING	STATUS S E DETAIL A/E	QID ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST ROOM	ANL	FO	C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS COMPOSITE EPN
RHR-MO-17A			L200	SB-2-80				A X	221001	P	Y 114				33+				24
10.6HP 13.8A MOTOR OPER. RHR-V-17A						R	556	L.0/4.4	R63		R510					RHR-V-17A+			
41A	2	A	1 0	B1	M521/1			H6											
RHR-MO-17B			L200	SB-2-80				A X	221001		N 114	00			33				24
10.6HP 13.8A MOTOR OPER. RHR-V-17B						R	516	K.5/8.0	R41		R310					RHR-V-17B+			
41A	2	A	1 0	B1	M521/2			D12											
RHR-MO-21			L200	SMB-3-80				A X	221001	P	Y 114				33+				24
5.3HP 8.4A MOTOR OPER. RHR-V-21						R	455	H.4/5.2	R22		R113					RHR-V-21+			
41B	2	A	1 0	B1,C,E	M521/2			E8											
RHR-MO-23			L200	SMB-0-15				A X	221001	P	N 114				33+				24
1.08HP 4.7A MOTOR OPER. RHR-V-23						R	552	M.6/5.4	R63		R511					RHR-V-23+			
41B	2	A	1 3	B1	M521/2			J13											
RHR-MO-24A			L200	SMB-3-80				A X	221001	P	Y 114				33+				4320
5.3HP 8.3A MOTOR OPER. RHR-V-24A						R	476	K.0/8.1	R31		R213					RHR-V-24A+			
41B	2	A	1 3	B1,C,E	M521/1			E10											
RHR-MO-24B			L200	SMB-3-80				A X	221001	P	Y 114				33+				4320
5.3HP MOTOR OPERATOR RHR-V-24B						R	476	M.2/8.1	R33		R214					RHR-V-24B+			
41B	2	A	1 3	B1,C,E	M521/2			C11											
RHR-MO-26A			L200	SMB-000-5				A X	221001		Y 14	00			35				24
0.333HP MOTOR OPERATOR RHR-V-26A						R	476	K.5/8.2	R31		R213					RHR-V-26A+			
41A	2	A	1 0	C,E	M521/1			F12											
RHR-MO-26B			L200	SMB-000-5				A X	221001	P	Y 114				33+				24
0.333HP MOTOR OPERATOR RHR-V-26B						R	474	L.2/8.1	R33		R214					RHR-V-26B+			
41A	2	A	1 0	C,E	M521/2			E8											
RHR-MO-27A			L200	SMB-00-7.5				A X	221001		Y 114				33+				24
0.5HP MOTOR OPERATOR RHR-V-27A						R	495	K.3/4.1	R32		R206					RHR-V-27A+			
41A	2	A	1 0	B1,C,E	M521/1			D7											
RHR-MO-27B			L200	SMB-00-7.5				N X	221001	P	Y 114				33+				24
0.5HP MOTOR OPERATOR RHR-V-27B						R	493	M.2/7.9	R33		R206					RHR-V-27B+			
41A	2	A	1 0	B1,C,E	M521/2			C11											
RHR-MO-3A			L200	SMB-1-40				A X	221001	P	N 114				33+				24
2.6HP MOTOR OPERATOR RHR-V-3A						R	562	J.9/8.5	R61		R507					RHR-V-3A+			
41A	2	A	1 3	C,E	M521/1			H11											
RHR-MO-3B			L200	SMB-1-40				A X	221001	P	N 114				33+				24
2.6HP MOTOR OPERATOR RHR-V-3B						R	560	M.2/8.4	R63		R505					RHR-V-3B+			
41A	2	A	1 3	C,F	M521/2			J9											
RHR-MO-40			L200	SMB-000-2				A Y	221001	P	N 114				33+		10	C	4320
.3HP 1.9A MOTOR OPER. RHR-V-40						R	553	M.6/8.4	R63		R505					RHR-V-40+			
41B	2	A	1 0	B?	M521/2			G4											

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG DRAWING	ELEV	A/E DETAIL	A/E ZONE	STATUS S	E	QID	TM	***SEISMIC (S) PARAMETERS*** HL	TEST	ANL	FO	C	FREQ	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS	COMPOSITE EPN
RHR-MO-42A 19.5HP/25.2A MTR OP FOR RHR-V-42A 41A	2	A	1	0 B1,C,E	R M521/1	528	J.0/6.0	G7	A	X	221001	P	Y	114 R52	R408			33+				4320	RHR-V-42A+
RHR-MO-42B 19.5HP 25.2A MOTOR OPER. RHR-V-42B 41A	2	A	1	0 B1,C,E	R M521/2	528	N.0/5.8	G12	A	X	221001	P	Y	114 R53	R405			33+				4320	RHR-V-42B+
RHR-MO-42C 19.5HP 25.2A MOTOR OPER. RHR-V-42C 41A	2	A	1	0 B1,C,E	R M521/2	528	J.0/6.0	E12	A	X	221001	P	Y	114 R51	R408			33+				4320	RHR-V-42C+
RHR-MO-47A 2.6HP/11.5-5.75A MO FOR RHR-V-47A 41A	2	A	1	3 C,E	R M521/1	582	M.3/8.4	J14	A	X	221001	P	N	114 R71	R606			33+				4320	RHR-V-47A+
RHR-MO-47B 2.6HP/11.5-5.75A MO FOR RHR-V-47B 41A	2	A	1	3 C,E	R M521/2	582	M.3/8.6	J3	A	X	221001	P	N	114 R73	R605			33+				4320	RHR-V-47B+
RHR-MO-48A 5.3HP 8.4A MOTOR OPER. RHR-V-48A 41B	2	A	1	3 C,E	R M521/1	555	8.6/J.2	H11	A	X	221001	P	N	114 R61	R507			33+				4320	RHR-V-48A+
RHR-MO-48B 5.3HP 8.4A MOTOR OPER. RHR-V-48B 41B	2	A	1	3 C,E	R M521/2	555	M.8/8.7	J8	A	X	221001	P	N	114 R63	R505			33+				4320	RHR-V-48B+
RHR-MO-49 0.333HP MOTOR OPERATOR RHR-V-49 41A	2	A	1	1 B2	R M521/2	553	M.5/8.5	G4	A	X	221001	P	N	114 R63	R505			33+				4320	RHR-V-49+
RHR-MO-4A 2.66HP MOTOR OPERATOR RHR-V-4A 41A	2	A	1	0 B1,C,E	R M521/1	460	K.0/8.3	C7	A	X	221001	P	Y	114 R23	R115			33+				4320	RHR-V-4A+
RHR-MO-4B 2.66HP MOTOR OPERATOR RHR-V-4B 41A	2	A	1	0 B1,C,E	R M521/2	461	L.2/8.2	B11	A	X	221001	P	Y	114 R23	R115			33+				4320	RHR-V-4B+
RHR-MO-4C 2.66HP MOTOR OPERATOR RHR-V-4C 41A	2	A	1	0 B1,C,E	R M521/2	460	J.7/4.3	B12	A	X	221001	P	Y	114 R22	R113			33+				4320	RHR-V-4C+
RHR-MO-52A 5.2HP MOTOR OPERATOR RHR-V-52A 42A	2	A	1	1 C,E	R M521/1	578	H.6/9.2	J10	A	X	221001	P	N	114 R71	R608			33+				24	RHR-V-52A+
RHR-MO-52B 5.2HP MOTOR OPERATOR RHR-V-52B 42A	2	A	1	1 C,E	R M521/2	578	N.1/8.6	J6	A	X	221001	P	N	114 R73	R605			33+				24	RHR-V-52B+

EPN / DESCRIPTION / CONTRACT	LEVEL	MFG EC	USE	SAFETY FUNCTION	MODEL / BLDG ELEV / DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
RHR-MO-53A 8.2HP MOTOR OPERATOR RHR-V-53A 41B	2	L200 A	1 3	SMB-2-60 C,E,B1	R 515 M521/1	A X K.9/4.1 F6	221001 P R42	Y 114 R312		33+	10 C 4320 RHR-V-53A+
RHR-MO-53B 7.9HP 10A MOTOR OPER. RHR-V-53B 41B	2	L200 A	1 3	SMB-2-60 C,E,B1	R 515 M521/2	A X L.2/8.0 F12	221001 P R43	Y 114 R316		33+	10 C 4320 RHR-V-53B+
RHR-MO-64A 2.66HP MOTOR OPERATOR RHR-FCV-64A 42A	2	L200 A	1 3	SMB-000-5 B1,C,E	R 446 M521/1	A X K.2/9.2 B12	221001 P R21	N 114 R116		33+	4320 RHR-FCV-64A+
RHR-MO-64B MOTOR OPERATOR RHR-FCV-64B 42A	2	L200 A	1 3	SMB-000-5 B1,C,E	R 448 M521/2	A X M.0/9.2 B7	221001 P R23	N 114 R115		33+	4320 RHR-FCV-64B+
RHR-MO-64C MOTOR OPERATOR RHR-FCV-64C 42A	2	L200 A	1 0	SMB-000-5 B1,C,E	R 450 M521/2	A X J.0/4.9 F7	221001 P R22	N 114 R113		33+	4320 RHR-FCV-64C+
RHR-MO-68A 2.6HP 5.75A MOTOR OPER. RHR-V-68A 41A	2	L200 A	1 3	SMB-0-40 C,E,F	R 558 M524/1	B X J.1/9.3 D13	221001 P R61	N 114 R507		33+	4320 RHR-V-68A+
RHR-MO-68B 2.6HP 5.75A MOTOR OPER. RHR-V-68B 41A	2	L200 A	1 3	SMB-0-40 C,E,F	R 555 M524/2	B X M.8/9.3 F14	221001 P R63	N 114 R505		33+	4320 RHR-V-68B+
RHR-MO-6A 2.66HP MOTOR OPERATOR RHR-V-6A 41A	2	L200 A	1 3	SMB-0-25 C,F	R 430 M521/1	A X K.8/8.3 B8	221001 P R11	N 114 R6		33+	4320 RHR-V-6A+
RHR-MO-6B 2.66HP MOTOR OPERATOR RHR-V-6B 41A	2	L200 A	1 3	SMB-0-25 C,E	R 430 M521/1	A X L.8/8.5 B7	221001 P R13	N 114 R7		33+	4320 RHR-V-6B+
RHR-MO-73A 2.0HP MOTOR OPERATOR RHR-V-73A 215	2	L200 A	1 3	SMC-04-5 C,F	R 590 M521/1	A X J.9/9.2 H13	221001 P R71	N 114 R606		33+	10 C 4320 RHR-V-73A+
RHR-MO-73B 2.0HP MOTOR OPERATOR RHR-V-73B 215	2	L200 A	1 3	SMC-04-5 C,F	R 590 M521/2	A Y M.2/9.1 H4	221001 F R73	114		33+	10 C 4320 RHR-V-73B+
RHR-MO-74A 2.0HP MOTOR OPERATOR RHR-V-74A 215	2	L200 A	1 3	SMC-04-5 C,F	R 590 M521/1	A X J.9/9.1 H13	221001 P R71	N 114		33+	10 C 4320 RHR-V-74A+
RHR-MO-74B 2.6HP MOTOR OPERATOR RHR-V-74B 215	2	L200 A	1 3	SMC-04-5 C,E	R 590 M521/2	A Y M.3/9.1 J5	221001 P R73	114 R605		33+	10 C 4320 RHR-V-74B+

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL A/E ZONE	QID / ZONE	TH / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
RHR-MO-8			L200	SMB-2-80			A X	221001 P	Y 114		33+		4320
5.8HP MOTOR OPERATOR RHR-V-8					K	512 K.3/7.3		R43	R315			RHR-V-8+	
41A	2	A	1	3 B1,C,E	M521/1		E7						
RHR-MO-87A			L200	SMB-00-10			A X	221001 P	N 114		33+		24
3.89HP MOTOR OPERATOR RHR-V-87A					R	578 J/9.3		R71	R606			RHR-V-87A+	
42A	2	A	1	1 C,E	M521/1		J10						
RHR-MO-87B			L200	SMB-00-10			A X	221001 P	N 114		33+		24
MOTOR OPERATOR RHR-V-87B					R	578 M.8/8.6		R73	R604			RHR-V-87B+	
42A	2	A	1	1 C,E	M521/2		J6						
RHR-MO-9			L200	SMB-2-60			A X	221001 P	Y 114		33+		4320
10.6HP MOTOR OPERATOR RHR-V-9					C	511 160 D AZ		R23	C47			RHR-V-9+	
41A	2	A	1	3 B1,C,E	M521/1		F6						
RHR-MO-93			L200	SMB-0-40/T56			A X	221001				17	4320
2.6HP 5.75A MOTOR OPER. RHR-V-116					R	548 N.0/8.6		R63				RHR-V-116+	
02G11	2	A	1	0 B2,C,F	M521/2		J9						
RHR-MO-94			L200	SMB-0-40/T56			A X	221001				07	4320
2.6HP 5A MOTOR OPER. RHR-V-115					R	548 N.0/9.0		R63				RHR-V-115+	
02G11	2	A	1	0 B2,C,F	M521/2		J9						
RHR-MO-99A			L200	SMB-000-5			D X	221001 P	Y 114		33+	10 C	4320
MOTOR OPERATOR FOR RHR-V-123A					C	514 95 D AZ		R28	C47			RHR-V-123A+	
215	2	A	1	3 B1,C,E	M521/1		E5						
RHR-MO-99B			L200	SMB-000-5			D X	221001 P	Y 114		33+	10 C	.017
MOTOR OPERATOR FOR RHR-V-123B					C	510 270D AZ		R27	C44			RHR-V-123B	
215	2	A	1	0 B1	M521/2		E13						
RHR-PIS-22A			B080	288A			Y X	245002					4320
PRESSURE INDICATING SWITCH				H22-P018	R	505 J.7/3.7		R42				E-IR-P018+	
02	2	P	2	3 G	M521/1		E14						
RHR-PIS-22B			B080	288A			Y X	245002 R	N 114		33+		4320
PRESSURE INDICATING SWITCH				H22-P021	R	505 H.6/9.3		R41				E-IR-P021+	
02E12	2	P	2	3 G	M521/2		D3						
RHR-PIS-22C			B080	288A			Y X	245002					4320
PRESSURE INDICATING SWITCH				H22-P021	R	503 H.6/9.3		R41				E-IR-P021+	
02	2	P	2	0 C	M521/2		F5						
RHR-PS-16A			S382	5N-AA3-(X10)-STT			X X	256016 R	N 114		33+		24
ADS PERMISSIVE (10-240.PSIG)					R	503 J.6/3.6		R42	R305			E-IR-P018+	
02E12	2	A	1	0 C,E	M521/1		C15						
RHR-PS-16B			S382	5N-AA3-(X10)-STT			X X	256016 R	N 114		33+		24
ADS PERMISSIVE (10-240 PSIG)					R	503 H.6/9.3		R41	R305			E-IR-P021+	
02E12	2	A	1	0 C,E	M521/2		C3						

EPN / DESCRIPTION / CONTRACT LEVEL EC USE	MFG / MODEL / SAFETY FUNCTION	BLDG ELEV DRAWING A/E ZONE	STATUS S E DETAIL	QID TH ZONE	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
RHR-PS-16C ADS PERMISSIVE (10-240 PSIG) 02E12 2 A 1 0 C,E	S382 5N-AA3-(X10)-STT	R 503 M521/2	X X H,8/9,3 D5	256016 R R41	N 114 R305	33+	E-IR-P021+	24
RHR-PS-18 PRESS SWITCH SHUTDOWN COOL SUCT. 02E12 2 P 2 0 G	S382 6N6-E45-NX/CIATTX5	R 507 M521/1	X X N,1/7,7 D8	256016 R	N 114	33+		4320
RHR-PS-19A ADS PERMISSIVE (10-240 PSIG) PUMP 02 2 A 1 0 C,E	S382 5N-AA3-(X10)-STT	R 503 M521/1	X X J,6/3,8 C14	256016 R R42	N 114	33+	E-IR-P018+	24
RHR-PS-19B ADS PERMISSIVE (10-240 PSIG) PUMP 02 2 A 1 0 C,E	S382 5N-AA3-(X10)-STT	R 503 M521/2	X X H,8/9,3 C3	256016 R R41	N 114	33+	E-IR-P021+	24
RHR-PS-19C ADS PERMISSIVE (10-240 PSIG) PUMPC 02 2 A 1 0 C,E	S382 5N-AA3-(X10)-STT	R 505 M521/2	X X H,8/9,3 D5	256016 R R41	N 114	33+	E-IR-P021+	24
RHR-TE-27A TEMPERATURE ELEMENT (PRIMARY) 2 2 P 2 3 G	P427 117C3485P022	R 565 M521/1	X X J,2/8,0 H10	339023 R61	N 01	99+	06153 10 E	4320
RHR-TE-27B TEMPERATURE ELEMENT (PRIMARY) 2 2 P 2 3 G	P427 117C3485P022	R 565 M521/2	X X H,6/8,0 J10	339023 R63	N 01	99+	06153 10 E	4320
RHR-TE-4A TEMPERATURE ELEMENT (PRIMARY) 02E12 2 P 2 3 G	P427 117C3485P022	R 588 M521/1	X X J,8/9,0 H10	339023 R71	N 01	99+	06153 10 E	4320
RHR-TE-4B TEMPERATURE ELEMENT (PRIMARY) 02E12 2 P 2 3 G	P427 117C3485P022	R 588 M521/2	X X H,4/9,0 J7	339023 R73	N 01	99+	06153 10 E	4320
RHR-TE-5A RHR-HX-2A SSW OUTLET TEMP 02E 2 P 2 3 G	P427 117C3485P022	R 560 M524/1	X X J,3/8,5 C13	339023 R61	N 01	99+	06153 10 E	4320
RHR-TE-5B RHR-HX-2B SSW OUTLET TEMP 02E 2 P 2 3 G	P427 117C3485P022	R 560 M524/2	X X H,7/8,5 F13	339023 R61	N 01	99+	06153 10 E	4320
RHR-V-60A SOLENOID VALVE, SAMPLE ISO 215 2 A 1 0 P2	M095 MV36RP-H3	R 560 M521	X T J,8/8,5 J12	324006 W R61	N 200 01	99+	01014 10	4320
RHR-V-60B SOLENOID VLV, SAMPLE ISO 215 2 A 1 0 B2	M095 MV36RP-H3	R 560 M521	X T H,4/8,4 J5	324006 W R63	N 200 01	99+	01014 00	4320

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TM	***SEISMIC (S) PARAMETERS*** HL TEST / ROOM	ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE C	HOURS
RHR-V-75A SOLENOID VLV, SAMPLE ISO. 215 2 A 1 0 B2	M095 MV36RP-H3	R 561 J.8/8.5 M521	X J J12	324006 W R61	N	200 01		99+	01014	10	4320
RHR-V-75B SOLENOID VLV, SAMPLE ISO 215 2 A 1 0 B2	M095 MV36RP-H3	R 561 M.4/8.5 M521	X J J5	324006 W R63	N	200 01		99+	01014	10	4320
ROA-M-AD/19 MOTOR FOR ROA-AD-19 64 2 A 1 0 J	B066 MA418	R 560 L.9/8.2 M545	R F8	221002					06153	14 E	4320
ROA-POS-V/1 POS FOR ROA-V-1 2 A 1 3 B2,F	N007 70050100	R 578 N.7/5.7 E519/12	Y J D8	200014					05033 ROA-V-1+	11 S	4320
ROA-POS-V/2 POS FOR ROA-V-2 2 A 1 3 B2,F	N007 70050100	R 578 N.7/5.0 E519/12	Y P D8	200014					05033 ROA-V-2+	11 S	4320
ROA-RLY-CR1A CONTROL ISOLATION VALVE ROA-V-1 3 P 2 3 G1	A500 RXHK1	R 556 N.0/6.0 E519/12	X X D7	283011					06153 E-IR-67+	00	4320
ROA-RLY-CR200 CONTROL ISOLATION VALVE ROA-V-2 3 P 2 3 G1	A500 RXHK1	R 528 N.0/8.3 E519/12	X X D7	283011 F					06153 E-IR-69+	00	4320
ROA-SPV-10 DIV II HCC ROOM DAMPER SOL PILOT - 216 2 P 2 0 G1	A499 HBX8320A-1	R 524 M.5/3.9 M545	X X E15	315002 D R32	N R410	114 03		33+			4320
ROA-SPV-100 ROA-V-1 SOL PILOT VA - - 216 2 A 1 3 B2,F	A499 WJHT831654	R 553 M.8/5.7 M545	X X F3	315004 P R63	N R504	114 03		33+ E-IR-67+			4320
ROA-SPV-11 DIV 1 HCC ROOM DAMPER SOL PILOT - 216 2 P 2 0 G1	A499 HBX8320B-1	R 524 M.7/8.1 M545	X X D7	315002 D R31	N R212	114 03		33+			4320
ROA-SPV-12 OC HCC ROOM DAMPER SOL PILOT - - 216 2 P 2 0 G1	A499 HBX8320B-1	R 480 M.8/8.1 M545	X X C7	315002 D R31	N R212	114 03		33+			4320
ROA-SPV-13 H2 RECOMB HCC RM (DIV I) DAMPER SO 216 2 P 2 0 G1	A499 HBX8320A-1	R 596 M.3/5.9 M545	X X G15	315002 D R73	N R611	114 03		33+			4320
ROA-SPV-14 H2 RECOMB HCC RM (DIV II) DAMPER S 216 2 P 2 0 G1	A499 HBX8320A-1	R 592 M.4/8.1 M545	X X G14	315002 D R73	N R612	114 03		33+			4320

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL	BLDG ELEV A/E DRAWING A/E ZONE	STATUS S E DETAIL	QID TM ZONE	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
ROA-SPV-15 SOLENOID PILOT VALVE 216 2 P 2 0 G1	A499 HBX8320A-1	R 563 M545	X X M.8/4.4 G13	315002 D R63	N 114 03 R516	33+	4320
ROA-SPV-17 ANALYZER RM 1B DAMPER SOL PILOT LO 216 2 P 2 0 G1	A499 HBX8320A-1	R 563 M545	X X M.8/4.4 G14	315002 D R63	N 114 03 R512	33+	4320
ROA-SPV-200 ROA-V-2 SOL PILOT VA - - 216 2 A 1 3 B2,F	A499 WJHT8316E35	R 529 M545	X R N.0/8.2 F3	315004 P C54	N 114 03 R404	33+ E-IR-69+	4320
RPS-PS-2A HIGH DRYWELL PRESSURE 0.2-6 PSIH22-P004 02C72 2 A 1 0 A	S382 12N-AA4-X10TT	R 525 807E178TC/	Y X J.5/7.1 C3	256016 R R51	N 114 R404	33+ E-IR-P004+	.17
RPS-PS-2B HIGH DRYWELL PRESSURE 0.2-6 PSI 02C72 2 A 1 0 A	S382 12N-AA4-X10TT	R 525 807E178TC/	A X M.8/6.6 7C3	256016 R R53	N 114 R404	33+ E-IR-P027+	.17
RPS-PS-2C HIGH DRYWELL PRESSURE 0.2-6 PSI 02C72 2 A 1 0 A	S382 12N-AA5-X10TT	R 524 807E178TC/	Y X N.8/5.8 6J3	256016 R R53	N 114 R404	33+ E-IR-P005+	.17
RPS-PS-2D HIGH DRYWELL PRESSURE 0.2-6 PSI 02C72 2 A 1 0 A	S382 12N-AA5-X10TT	R 529 807E178TC/	X X H.4/4.2 7J3	256016 R R52	N 114 03 R404	10 E-IR-P026+	.17
RPS-PS-4 PRIM. CONT HIGH PRESS - - 02C72 2 P 2 0 G	B080 288A	R 522 M529	A X J5/7.2 H13	256007 R R51	N 121 R404	09 E-IR-P004+	4320
RRA-M-FN/1 3HP/4.7A MOTOR FOR RRA-FN-1 67 2 A 1 3 J	W120 SBFC/182T	R 445 M545	X X H.7/4.3 B14	213012 R22	R113	RRA-FC-1+	4320
RRA-M-FN/10 3HP/4.65A MOTOR FOR RRA-FN-10 67 2 A 1 0 J	W120 SBFC	R 522 M545	X X N.3/3.8 E15	213023 R53	R410	05153 00 RRA-FC-10+	4320
RRA-M-FN/11 3HP/4.65A MOTOR FOR RRA-FN-11 67 2 A 1 0 J	W120 SBFC	R 522 M545	X X H.5/8.0 E7	213023 R51	R411	05153 00 RRA-FC-11+	4320
RRA-M-FN/12 5HP/5.5A MOTOR FOR RRA-FN-12 216 2 A 1 0 J	W120 TBAN	R 530 M545	X X H.6/7.8 C7	213015 R31	R212	05253 01 RRA-FC-12+	4320
RRA-M-FN/13 3HP/7A MOTOR FOR RRA-FN-13 216 2 A 1 0 J	W120 TBAN	R 585 M545	X X H.3/6.1 H15	213015 F R73	R611	05253 01 RRA-FC-13+	4320

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E DRAWING	BLDG	ELEV	STATUS / DETAIL / A/E ZONE	S	E	QID / ZONE	TM	HL	TEST	ANL	FO	C	ACCURACY	FREQ	AGING	DBE	C	HOURS / COMPOSITE EPN
RRA-M-FN/14				TBAN	W120				X	X	213015	F								05253	01		4320
3HP/5.5A MOTOR FOR RRA-FN-14						R	585	H.7/8.0			R73		R612							RRA-FC-14+			
216	2	A	1	0 J	M545			H13															
RRA-M-FN/15				TBAN	W120				X	X	213015									05253	01		4320
3HP/5.4A MOTOR FOR RRA-FN-15						R	560	M.5/4.5			R63		R516							RRA-FC-15+			
216	2	A	1	0 J	M545			G14															
RRA-M-FN/17				TBAN	W120				X	X	213015									05253	01		4320
3HP/5.7A MOTOR FOR RRA-FN-17						R	548	M.5/4.7			R63		R512							RRA-FC-17+			
216	2	A	1	0 J	M545			G14															
RRA-M-FN/19				SBFC	W120				Z	R	213011								33+	05153	00	E	4320
3HP MOTOR FOR RRA-FN-19						R	548	L.10/8.4			R63									RRA-FC-19+			
215	2	A	1	3 J	M545			G9															
RRA-M-FN/2				SBFC/182T	W120				X	X	213012												4320
3HP/7A MOTOR FOR RRA-FN-2						R	445	L.0/8.3			R21		R116							RRA-FC-2+			
67	2	A	1	3 J	M545			B8															
RRA-M-FN/20				TBFC	W120				Z	R	213011									05153	00	E	4320
3HP MOTOR FOR RRA-FN-2						R	548	L.8/8.4			R63									RRA-FC-20+			
215	2	A	1	3 J	M545			G8															
RRA-M-FN/3				SBFC/182T	W120				X	X	213012												4320
3HP/4.65A MOTOR FOR RRA-FN-3						R	445	M.0/8.3			R23		R115							RRA-FC-3+			
67	2	A	1	3 J	M545			B10															
RRA-M-FN/4				TBFC/256T	W120				X	X	213025									05153	00	E	4320
10HP/7A MOTOR FOR RRA-FN-4						R	441	M.4/4.1			R23		R106							RRA-FC-4+			
67	2	A	1	0 J	M545			B12															
RRA-M-FN/5				SBFC	W120				X	X	213013												4320
5HP/6.8A MOTOR FOR RRA-FN-5						R	441	K.7/3.8			R22		R114							RRA-FC-5+			
67	2	A	1	0 J	M545			F13															
RRA-M-FN/6				TBFC/145T	W120				X	X	213021									05153	00		24
2HP/3A MOTOR FOR RRA-FN-6						R	441	M.6/7.7			R21		R112							RRA-FC-6+			
67	2	A	1	1 L	M545			B7															
RRA-RMS-FN/1				KYC-1	S345				X	R	285002									05253	01	E	4320
CONTROL SWITCH FOR RRA-FN-1						R	444	M.8/4.3															
3		P	2	3 J	M545			B14															
RRA-RMS-FN/2				KYC-1	S345				X	J	285002									05253	11		4320
CONTROL SWITCH FOR RRA-FN-2						R	444	K.2/8.2															
3		P	2	3 J	M545			B8															
RRA-RMS-FN/3				KYC-1	S345				X	R	285002									05253	01		4320
CONTROL SWITCH FOR RRA-FN-3						R	444	L.8/8.2															
3		P	2	3 J	M545			B9															

EPN / DESCRIPTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / DETAIL	GID / ZONE	TM HL TEST ANL FO C / ROOM	FREQ / ACCURACY	ENV. (E) PARAMETERS AGING / COMPOSITE EPN	DBE	C	HOURS
RRA-RMS-FN/4	S345	KYC-1	X X	285002			05253	11		4320
CONTROL SWITCH FOR RRA-FN-4		R 444	M.4/4.7							
3 P 2 3 J		M545	B12							
RRA-RMS-FN/5	S345	KYC-1	X X	285002			05253	01		4320
CONTROL SWITCH FOR RRA-FN-5		R 444	K.7/3.8							
3 P 2 0 J		M545	B13							
RRA-RMS-FN/6	S345	KYC-1	X X	285002			05253	01		24
CONTROL SWITCH FOR RRA-FN-6		R 444	H.6/8.0							
3 P 2 1 L		M545	B7							
RRC-FT-11A	R369	1151DP8A22MB	Y X	259003				05	G	.17
FLOW TRANSMITTER		R 473	L.6/4.0	R33			E-IR-P006+			
02B35 3 P 2 0 G		M530	G13							
RRC-FT-11B	R369	1151DP8A22MB	B X	259003				05	G	.17
FLOW TRANSMITTER		R 473	M.6/8.1	R33			E-IR-P022+			
02B35 3 P 2 0 G		M530	G5							
RRC-MO-16A	L200	SMC-04	A X	221001				10		24
2HP MOTOR OPERATOR FOR RRC-V-16A		R 506	M.5/4.4	R43	R307		RRC-V-16A+			
215 2 A 1 0 B1		M530	C14							
RRC-MO-16B	L200	SMC-04	D X	221001				10	C	24
2 HP MOTOR OPERATOR FOR RRC-V-16B		R 506	J.5/7.6	R41	R305		RRC-V-16B+			
215 2 A 1 0 B1		M530	R14							
RRC-PS-18A	S382	SNAA3X105TT	Y X	256016	R N 114 03	10				4320
PRESSURE SWITCH NON IND H22-P006		R 475	L.6/4.0	R33	R206		E-IR-P006+			
02B35 2 A 1 0 B1		M530	G12							
RRC-PS-18B	P069	B1T-H12SS-GE	Y X	256002	R N 14 00	33+				4320
PRESSURE SWITCH NON IND H22-P022		R 475	M.6/8.1	R33	R206		E-IR-P022+			
02B 2 A 1 0 B1		M530	F5							
RRC-PS-36A	S382	12N-K4	X X	256016			06153	11	E	4320
INHIBITOR SWITCH FOR RRC-V-67A		R 548	N.8/5.7	R33			E-IR-67+			
220 2 P 2 0 G		M530	E10							
RRC-PS-36B	S382	12N-K4	X X	256016			06153	11	E	4320
INHIBITOR SWITCH FOR RRC-V-67B		R 548	H.7/8.1	R33			E-IR-68+			
220 2 P 2 0 G		M530	F7							
RRC-PT-38A	R369	1152GP9E22T0280PB	X	259003			06153	02	G	4320
VESSEL DOME PRESSURE		R 522	J.5/7.2				E-IR-P004+			
02 2 P 2 0 G		M529	J14							
RRC-PT-38B	R369	1152GP9E22T0280PB	X	259003			06153	02	G	4320
VESSEL DOME PRESSURE		R 522	M.8/6.6				E-IR-P027+			
02 2 P 2 0 G		M529	M5							

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TM	HL TEST	ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS / COMPOSITE EPN
RRC-TE-21 RRC TEMP. ELEM. 02	2	P	2 3 G	117C3485P083 M523	C 501	X X F13	339023 C45						06303	06	E	4320
RRC-TE-23A RRC TEMP ELEM. 02B35	2	P	2 3 G	G080 159C4520F004 M530	C 506 148 D AZ	X X C12	339023 C47						06153	05		4320
RRC-TE-23B RRC TEMP ELEM 02B35	2	P	2 3 G	G080 159C4520F004 M530	C 506 235 D AZ	X X C5	339023 C44						06153	05		4320
RRC-TE-28A RRC TEMP ELEM 02B35	2	P	2 3 G	R369 177-443-4 M530	C 506 148 D AZ	X X C12	339027 C47						06153	05	E	4320
RRC-TE-28B RRC TEMP ELEM 02B35	2	P	2 3 G	R369 177-443-4 M530	C 506 235 D AZ	X X C5	339027 C44						06153	05	E	4320
RRC-V-19 1.0" SOLENOID SAMP VLV 220	2	A	1 0 B1	T020 82M-001 M530	C 509 319 D AZ	X X F11	361015 C44	Y R35					06153 RRC-V-19+	10	E	24
RRC-V-20 1.0" SOLENOID SAMP VLV 215	2	A	1 0 B1	M095 MV36RP-H3 M530	R 506 J.0/6.9	X X F12	361009 R41						01014 RRC-V-20+	10		24
RWCU-DPIS-25 DPIS PRESS.BOUNT.FOR FE-35 	3	P	2 0 G	B040 289 M523	R 522 N.8/5.0	Y X F15	086001 R53						05253 E-IR-P002+	13	G	4320
RWCU-FT-15 LD RWCU ISOL FLOW 02E31	3	A	1 0 B1,F	B040 50-555111BLAA4WCJ M523	R 522 N.8/5.0	Y X B11	156003 R53						05033 E-IR-P002+	11	P	24
RWCU-FT-36 FLOW ELEMENT 35 PRESSURE BOUNDARY 02E31	3	A	1 0 B1,F	B040 555111BHAA4WBP M523	R 524 N.8/5.0	Y X F15	156003 P53	R N				33+	05153 E-IR-P002+	10	P	24
RWCU-FT-41 FLOW TRANSMITTER 02E31	3	A	1 0 B1,F	B040 555111BHAA4WBH M523	P 524 N.8/5.0	Y X H11	156003 R53	R N					05153 E-IR-P002+	10	P	24
RWCU-MO-1 1.6HP 4.0A MOTOR OPER. RWCU-V-1 41A	2	A	1 0 B1	L200 SMB-0-25 M523	C 540 150 DEG	M X F15	221001 C57	P Y 114				33+	RWCU-V-1+			24
RWCU-MO-4 1.8HP 7.5A MOTOR OPER. RWCU-V-4 41A	2	A	1 0 B1	L200 SMB-0-25 M523	R 539 N.7/5.0	A X F15	221001 R53	P Y 114 R406				33+	RWCU-V-4+			24

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	SAFETY FUNCTION	MFG / MODEL / A/E	BLDG ELEV / DRAWING	STATUS / DETAIL / A/E ZONE	QID	TH	HL	TEST	ANL	FO	C	FREQ ACCURACY	AGING	DBE	C	HOURS	COMPOSITE EPN
RWCU-MO-40			L200	SMB-0-25			A X	221001	P	Y	114				33+					
1.6 HP MOTOR OPER. RWCU-V-40+						R 515	H.6/5.1		R42											RWCU-V-40+
41A	2	A	1 0	B1	M523		H11													
SGT-DPIS-1A			D295	3002LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1A AP ACROSS SGT-MS-1A LOC						R 572	H.8/6.4		R72											SGT-FU-1A+
18	2	P	2 0	G	M544		J13													
SGT-DPIS-1B			D295	3002LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1A AP ACROSS SGT-MS-1B LOC						R 579	J.4/6.3		R72											SGT-FU-1B+
18	2	P	2 0	G	M544		E13													
SGT-DPIS-2A			D295	3002LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1A AP ACROSSSGT-FL-1A-1 LOC						R 572	H.8/6.4		R71											SGT-FU-1A+
18	2	P	2 0	G	M544		J12													
SGT-DPIS-2B			D295	3002LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1B AP ACROSSSGT-HF-1B-1 LOC						R 579	J.4/6.3		R72											SGT-FU-1B+
18	2	P	2 0	G	M544		E12													
SGT-DPIS-3A			D295	3010LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1A AP ACROSSSGT-HF-1A-1 LOC						R 572	H.8/6.4		R71											SGT-FU-1A+
18	2	P	2 0	G	M544		J12													
SGT-DPIS-3B			D295	3010LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1B AP ACROSSSGT-CF-1B-1 LOC						R 579	J.4/6.3		R72											SGT-FU-1B+
18	2	P	2 0	G	M544		E12													
SGT-DPIS-4A			D295	3010LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1A AP ACROSSSGT-CF-1A-2 LOC						R 572	H.8/6.4		R72											SGT-FU-1A+
18	2	P	2 0	G	M544		J11													
SGT-DPIS-4B			D295	3010LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1B AP ACROSSSGT-CF-1B-2 LOC						R 579	J.4/6.3		R71											SGT-FU-1B+
18	2	P	2 0	G	M544		E11													
SGT-DPIS-5A			D295	3010LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1A AP ACROSSSGT-CF-1A-2 LOC						R 572	H.8/6.4		R71											SGT-FU-1A+
18	2	P	2 0	G	M544		J9													
SGT-DPIS-5B			D295	3010LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1B AP ACROSSSGT-HF-1B-2 LOC						P 579	J.4/6.3		R71											SGT-FU-1B+
18	2	P	2 0	G	M544		E9													
SGT-DPIS-6A			D295	3004LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1A AP ACROSSSGT-HF-1A-2 LOC						R 572	H.8/6.4		R71											SGT-FU-1A+
18	2	P	2 0	G	M544		J8													
SGT-DPIS-6B			D295	3004LT			X X	086004	R	N		04				06153	04		4320	
SGT-FU-1B AP ACROSSSGT-HF-1B-2 LOC						R 579	J.4/6.3		R71											SGT-FU-1B+
18	2	P	2 0	G	M544		E8													

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / DRAWING	STATUS S E / A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
SGT-EHC-1A1 22.5 KW ELECTRIC HEATING COIL 18	2	C A	332 1	2747499 0 D,F	M544	R 576	X X H.7/5.6 H13	109008 D R72	N 200 03 R608		11	SGT-FU-1A+	4320
SGT-EHC-1A2 ELECTRIC HEATING COIL 18	2	C A	332 1	2747499 0 D,F	M544	R 576	X X H.7/5.6 H13	109008 D R72	N 200 03 R608		11	SGT-FU-1A+	4320
SGT-EHC-1B1 22.5 KW ELECTRIC HEATING COIL 18	2	C A	332 1	27-47499 0 D,F	M544	R 576	X X J.3/5.6 D13	109008 D R72	N 200 03 R607		11	SGT-FU-1B+	4320
SGT-EHC-1B2 ELECTRIC HEATING COIL 18	2	C A	332 1	27-47499 0 D,F	M544	R 576	X X J.3/5.6 D13	109008 D R72	N 200 03 R607		11	SGT-FU-1B+	4320
SGT-EHO-1A1 SGT-FN-1A1 INLET VANES OPER 28	2	I A	206 1	NH91GZ073E1F-ZN20 0 D,F	M544	R 575	A X H.5/7.7 J7	110004 P R71	N 121 03 R608		33+	10143 10 S SGT-FN-1A1+	4320
SGT-EHO-1A2 SGT-FN-1A2 INLET VANES OPER 28	2	I A	206 1	NH91GZ073E1F-ZN20 0 D,F	M544	R 575	A X H.8/7.7 G7	110004 P R71	N 121 03 R608		33+	10143 10 S SGT-FN-1A2+	4320
SGT-EHO-1B1 SGT-FN-1B1 INLET VANES OPER 28	2	I A	206 1	NH91GZ073E1F-ZN20 0 D,F	M544	R 575	A X J.1/7.7 C7	110004 P R71	N 121 03 R607		33+	10143 00 S SGT-FN-1B1+	4320
SGT-EHO-1B2 SGT-FN-1B2 INLET VANES OPER 28	2	I A	206 1	NH91GZ073E1F-ZN20 0 D,F	M544	R 575	A X J.4/7.7 E7	110004 P R71	N 121 03 R607		33+	10143 00 S SGT-FN-1B2+	4320
SGT-FS-2A2 SGT-FN-1A-1 DISCH. LOC-AL- 220	2	B A	080 1	289A 0 D,F	M544	R 572	Z X H.9/7.8 J6	154005 F R71				06153 10 E	4320
SGT-FS-2B1 SGT-FN-1B-2 DISCH. LOC-AL- 220	2	B A	080 1	289A 0 D,F	M544	R 572	Z X J.2/8.0 E6	154005 F R71				06153 00 E	4320
SGT-FT-1A1 FLOW AFTER SGT-FN-1A-1 LOC-AL- SS	3	T A	363 1	P&C(S)-4 0 F,I	M544	R 585	X X H8/7.1 J6	156010 R71	R608			06303 16 E SGT-FN-1A1+	4320
SGT-FT-1A2 FLOW AFTER SGT-FN-1A-2 LOC-AL- SS	3	T A	363 1	P&C(S)-4 0 F,I	M544	R 585	X X H8/7.1 C6	156010 R71	R608			06303 16 E SGT-FN-1A2+	4320
SGT-FT-1B1 FLOW AFTER SGT-FN-1B-1 LOC-AL- SS	3	T A	363 1	P&C(S)-4 0 F,I	M544	R 585	X X H8/7.1 C6	156010 R71	R608			06303 06 E SGT-FN-1B1+	4320

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV / DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	TM / ROOM	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	DBE	C	HOURS
SGT-FT-1B2				P&C(S)-4	T363		X X	156010				06303	06	E	4320
FLOW AFTER SGT-FN-1B-2 LOC-AL-						R 585	H8/7.1	R71	R608			SGT-FN-1B2+			
SS	3	A	1 0	F,I		M544	E6								
SGT-M-FN/1A1				TBDP/286T	W120		X X	213017 F							4320
25HP/61-30.5A MOTOR FOR SGT-FN-1A1						R 576	H.5/7.6	R71	R608			SGT-FN-1A1+			
28	2	A	1 0	D,F		M544	J7								
SGT-M-FN/1A2				TBDP/286T	W120		X X	213017 F							4320
25HP/61-30.5A MOTOR FOR SGT-FN-1A2						R 576	H.9/7.6	R71	R608			SGT-FN-1A2+			
28	2	A	1 0	D,F		M544	G6								
SGT-M-FN/1B1				TBDP/286T	W120		X X	213017 F							4320
25HP/61-30.5A MOTOR FOR SGT-FN-1B1						R 576	J.2/7.6	R71	R607			SGT-FN-1B1+			
28	2	A	1 0	D,F		M544	C6								
SGT-M-FN/1B2				TBDP/286T	W120		X X	213017 F							4320
25HP/61-30.5A MOTOR FOR SGT-FN-1B2						R 576	J.5/7.6	R71	R607			SGT-FN-1B2+			
28	2	A	1 0	D,F		M544	E6								
SGT-ME-16A				XNAM10205	H349		Y X	217001 D	N 021			06153	04	E	4320
MOISTURE ELEMENT AFTER SGT-MS-1A						R 572	H.7/5.5	R72				SGT-FU-1A+			
18	2	P	2 0	G		M544	J13								
SGT-ME-16B				XNAM10205	H349		Y X	217001 D	N 021			06153	04	E	4320
MOISTURE ELEMENT AFTER SGT-MS-1B						R 572	J.3/5.5	R72				SGT-FU-1A+			
18	2	P	2 0	G		M544	E13								
SGT-ME-17A				XNAM10205	H349		Y X	217001 D	N 021			06153	04	E	4320
MOISTURE ELEMENT AFTER SGT-MS-1A						R 572	H.7/5.5	R72				SGT-FU-1A+			
18	2	P	2 0	G		M544	H13								
SGT-ME-17B				XNAM10205	H349		Y X	217001 D	N 021			06153	04	E	4320
MOISTURE ELEMENT AFTER SGT-MS-1B						R 572	J.3/5.5	R72				SGT-FU-1B+			
18	2	P	2 0	G		M544	C13								
SGT-ME-4A				XNAM10205	H349		X X	217001 D	N 021			06153	04	E	4320
SGT-FU-1A MOIST. AFTER SGT-FH-1A-1						R 582	H.7/6.2	R72				SGT-FU-1A+			
18	2	P	2 0	G		M544	H11								
SGT-ME-4B				XNAM10205	H349		X X	217001 D	N 021			06153	04	E	4320
SGT-FU-1B MOIST. AFTER SGT-HF-1B-1						R 582	J.3/6.2	R72				SGT-FU-1B+			
18	2	P	2 0	G		M544	C11								
SGT-ME-6A1				XMS-7AP	H349		X X	217001 D	N 021						4320
MOISTURE AFTER SGT-MS-1A						R 572	H.8/5.5	R72	R608			SGT-FU-1A+			
18	2	A	1 0	D,F		M544	J13								
SGT-ME-6A2				XMS-7AP	H349		X X	217001				06153	14	E	4320
MOISTURE AFTER SGT-MS-1A						R 572	H.8/5.5					SGT-FU-1A+			
18	2	A	1 0	D,F		M544	J13								

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL	BLDG ELEV DRAWING A/E ZONE	STATUS S E DETAIL	QID ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ANL FO C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
SGT-ME-6A3 MOISTURE AFTER SGT-MS-1A 18 2 A 1 0 D,F	H349 XMS-7AP M544	R 572 H.8/5.5 J13	X X	217001			06153 14 E 4320 SGT-FU-1A*
SGT-ME-6B1 MOISTURE AFTER SGT-MS-1B 18 2 A 1 0 D,F	H349 XMS-7AD M544	R 572 J.4/5.5 E13	X X	217001 D N 021 R72 R607			4320 SGT-FU-1B*
SGT-ME-6B2 MOISTURE AFTER SGT-MS-1B 18 2 A 1 0 D,F	H349 XMS-7AP M544	R 572 J.4/5.5 E13	X X	217001			06153 04 E 4320 SGT-FU-1B*
SGT-ME-6B3 MOISTURE AFTER SGT-MS-1B 18 2 A 1 0 D,F	H349 XMS-7AP M544	R 572 J.4/5.5 E13	X X	217001			06153 04 E 4320 SGT-FU-1B*
SGT-ME-7A1 MOISTURE AFTER SGT-MS-1A 18 2 A 1 0 D,F	H349 XMS-7AP M544	R 572 H.8/5.5 H13	X X	217001 D N 021 R72 R608			4320 SGT-FU-1A*
SGT-ME-7A2 MOISTURE AFTER SGT-MS-1A 18 2 A 1 0 D,F	H349 XMS-7AP M544	R 572 H.8/5.5 H13	X X	217001			06153 14 E 4320 SGT-FU-1A*
SGT-ME-7A3 MOISTURE AFTER SGT-MS-1A 18 2 A 1 0 D,F	H349 XMS-7AP M544	R 572 H.8/5.5 H13	X X	217001			06153 14 E 4320 SGT-FU-1A*
SGT-ME-7B1 MOISTURE AFTER SGT-MS-1B 18 2 A 1 0 D,F	H349 XMS-7AP M544	R 572 J.4/5.5 C13	X X	217001 D N 021 R72 R607			4320 SGT-FU-1B*
SGT-ME-7B2 MOISTURE AFTER SGT-MS-1B 18 2 A 1 0 D,F	H349 XMS-7AP M544	R 572 J.4/5.5 C13	X X	217001			06153 04 E 4320 SGT-FU-1B*
SGT-ME-7B3 MOISTURE AFTER SGT-MS-1B 18 2 A 1 0 D,F	H349 XMS-7AD M544	R 572 J.4/5.5 C13	X X	217001			06153 04 E 4320 SGT-FU-1B*
SGT-MO-1A 1.3HP/4.8-2.4A MOTOR OPER SGT-V-1A 68 2 A 1 0 D,F	L200 SMB-00-10 M544	R 582 H.8/5.2 H15	A X	221001 P N 114 R72 R608		33*	4320 SGT-V-1A*
SGT-MO-1B 1.3HP/4.8-2.4A MOTOR OPER SGT-V-1B 68 2 A 1 0 D,F	L200 SMB-00-10 M544	R 582 J.3/5.5 E15	A X	221001 P N 114 R72 R607		33*	4320 SGT-V-1B*
SGT-MO-3A1 1.3HP 2.4A MOTOR OPER. SGT-V-3A1 68 2 A 1 0 D,F	L200 SMB-00-10 M544	R 578 H.7/7.7 G7	A X	221001 P N 114 R71 R608		33*	4320 SGT-V-3A1*

EPN CONTRACT	LEVEL	MFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL A/E	BLDG ELEV DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	TH HL TEST ROOM	ANL FO C ACCURACY	FREQ	ENV. (E) PARAMETERS AGING	DBE C	HOURS COMPOSITE EPN
SGT-MO-3A2			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.33HP 2.4A MOTOR OPER.			SGT-V-3A2			R 578 H.8/7.7		R71	R608			SGT-V-3A2+		
68	2	A	1 0	D,F	M544		J7							
SGT-MO-3B1			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.33HP 2.4A MOTOR OPER.			SGT-V-3B1			R 578 J.3/7.7		R72	R607			SGT-V-3B1+		
68	2	A	1 0	D,F	M544		E7							
SGT-MO-3B2			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.33HP 2.4A MOTOR OPER.			SGT-V-3B2			R 578 J.6/7.7		R71	R607			SGT-V-3B2+		
68	2	A	1 0	D,F	M544		C7							
SGT-MO-4A1			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.3HP 2.4A MOTOR OPER.			SGT-V-4A1			R 588 H.4/7.0		R71	R608			SGT-V-4A1+		
68	2	A	1 0	D,F	M544		H5							
SGT-MO-4A2			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.3HP 2.4A MOTOR OPER.			SGT-V-4A2			R 585 J.0/7.0		R71	R608			SGT-V-4A2+		
68	2	A	1 0	D,F	M544		C5							
SGT-MO-4B1			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.33HP 2.4A MOTOR OPER.			SGT-V-4B1			R 587 J.0/7.0		R71	R608			SGT-V-4B1+		
68	2	A	1 0	D,F	M544		C5							
SGT-MO-4B2			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.33HP 2.4A MOTOR OPER.			SGT-V-4B2			R 587 J.8/7.0		R71	R607			SGT-V-4B2+		
68	2	A	1 0	D,F	M544		E5							
SGT-MO-5A1			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.33HP 2.4A MOTOR OPER.			SGT-V-5A1			R 588 H.4/7.0		R71	R608			SGT-V-5A1+		
68	2	A	1 0	D,F	M544		J5							
SGT-MO-5A2			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.33HP 2.4A MOTOR OPER.			SGT-V-5A2			R 588 H.9/7.0		R71	R608			SGT-V-5A2+		
68	2	A	1 0	D,F	M544		J5							
SGT-MO-5B1			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.33HP 2.4A MOTOR OPER.			SGT-V-5B1			R 585 J.1/7.0		R71	R608			SGT-V-5B1+		
68	2	A	1 0	D,F	M544		C5							
SGT-MO-5B2			L200	SMB-00-10			A X	221001 P	N 114		33+			4320
1.33HP 2.4A MOTOR OPER.			SGT-V-5B2			R 587 J.6/7.0		R71	R607			SGT-V-5B2+		
68	2	A	1 0	0	M544		F5							
SGT-POS-V/2A			N007	EA740			A X	200015					00	4320
POS FOR SGT-V-2A						R 583 J.3/5.5						SGT-V-2A+		
68	2	A	1 0	I	M544		H15							
SGT-POS-V/2B			N007	EA740			A X	200015 P	N 114		33+			4320
POS FOR SGT-V-2B						R 580 J.4/5.2						SGT-V-2B+		
68	2	A	1 0	I	M544		B15							

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL	BLDG ELEV DRAWING A/E ZONE	STATUS S E DETAIL	QID ZONE	TM HL TEST ANL FO C ROOM ACCURACY	***SEISMIC (S) PARAMETERS*** FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
SGT-SPV-2A SOL. PILOT VLV FOR SGT-V-2A 220 2 A 1 0 F	A499 WJNP831664E	R 576 H.9/5.2 M539	X X J15	315006 P R72	N 114 03 R608	33+	05153 10 P 4320
SGT-SPV-2B SOL. PILOT VLV. FOR SGT-V-2B 220 2 A 1 0 F	A499 WJNP83164E	R 577 J.1/5.2 M539	X X D15	315006 P R72	N 114 03 R607	33+	05153 .00 P 4320
SGT-SPV-F1 1/2 S.O DELUGE VA ASSY SGT-DV-1A- 18 2 P 2 0 F	A499 8211D2M0	R 578 H.6/3.7 M544	X X G12	315007 P R72	N 114 03 R602	33+	SGT-DV-1A1+ 4320
SGT-SPV-F2 1/2 S.O DELUGE VA ASSY SGT-DV-1A- 18 2 P 2 0 F	A499 8211D2M0	R 578 H.6/3.7 M544	X X G11	315007 P R72	N 114 03 R602	33+	SGT-DV-1A2+ 4320
SGT-SPV-F3 1/2 S.O DELUGE VA ASSY SGT-DV-1A- 18 2 P 2 0 F	A499 8211D2M0	R 578 H.6/3.6 M544	X X G9	315007 P R72	N 114 03 R602	33+	SGT-DV-1A3+ 4320
SGT-SPV-F4 1/2 S.O DELUGE VA ASSY SGT-DV-1B- 18 2 P 2 0 F	A499 8211D2M0	R 578 H.6/3.6 M544	X X B12	315007 P R72	N 114 03 R602	33+	SGT-DV-1B1+ 4320
SGT-SPV-F5 1/2 S.O DELUGE VA ASSY SGT-DV-1B- 18 2 P 2 0 F	A499 8211D2M0	R 578 H.6/3.6 M544	X X B11	315007 P R72	N 114 03 R602	33+	SGT-DV-1B2+ 4320
SGT-SPV-F6 1/2 S.O DELUGE VA ASSY SGT-DV-1B- 18 2 P 2 0 F	A499 8211D2M0	R 578 H.6/3.6 M544	X X B9	315007 P R72	N 114 03 R602	33+	SGT-DV-1B3+ 4320
SGT-TC-1A1 SGT-FU-1A TEMP. AFTER SGT-ESH-1A - 18 3 P 2 0 G	A160 837-A4J	R 579 H.7/6.4 M544	X X J11	334001 R R72	N 04 R608		05253 04 E 4320 SGT-FU-1A+
SGT-TC-1A2 SGT-FU-1A TEMP. AFTER SGT-CF-1A-1 18 2 P 2 0 G	A160 837-A4J	R 579 H.7/6.4 M544	X X J10	334001 R R72	N 04 R608		05253 04 E 4320 SGT-FU-1A+
SGT-TC-1B1 SGT-FU-1B TEMP. AFTER SGT-ESH-1B - 18 2 P 2 0 G	A160 837-A4J	R 579 J.3/6.4 M544	X X F11	334001 R R71	N 04 R607		05253 04 E 4320 SGT-FU-1B+
SGT-TC-1B2 SGT-FU-1B TEMP. AFTER SGT-CF-1B-1 18 2 P 2 0 G	A160 837-A4J	R 579 J.3/6.4 M544	X X F10	334001 R R71	N 04 R607		05253 04 E 4320 SGT-FU-1B+
SGT-TC-2A1 SGT-FU-1A TEMP. AFTER SGT-ESH-2A L 18 2 P 2 0 G	A160 837-A4J	R 579 H.9/6.7 M544	X X J10	334001 R R71	N 04 R608		05253 04 E 4320 SGT-FU-1A+

EPN	MFG	MODEL	STATUS S E	QID	TM	HL	TEST	ANL	FO C	FREQ	AGING	DBE	C	HOURS	DESCRIPTION	BLDG	ELEV	DETAIL	ZONE	ROOM	ACCURACY	COMPOSITE EPN	CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	A/E DRAWING	A/E ZONE
SGT-TC-2A2	A160	837-A4J	X X	334001	R	N		04			05253	04	E	4320	SGT-FU-1A TEMP. AFTER SGT-CF-1A-2	R	579	H.9/6.7	R71	R608		SGT-FU-1A+	18	2	F	2 0	G	M544	J9
SGT-TC-2B1	A160	837-A4J	X X	334001	R	N		04			05253	04	E	4320	SGT-FU-1B TEMP. BEFORE SGT-CF-1B-2	R	579	J.3/6.7	R71	R607		SGT-FU-1B+	18	2	P	2 0	G	M544	E9
SGT-TC-2B2	A160	837-A4J	X X	334001	R	N		04			05253	04	E	4320	SGT-FU-1B TEMP. AFTER SGT-CF-1B-2	R	579	J.3/6.7	R71	R607		SGT-FU-1B+	18	2	P	2 0	G	M544	E9
SGT-TE-1A	T361	TA-20(JD)-TW157-18	R X	339009	F						06153	00	E	4320	SGT-FU-1A TEMP. BEFORE SGT-EHC-1A-	R	582	H.7/5.5	R72			SGT-FU-1A+	18	2	P	2 0	G	M544	J13
SGT-TE-1B	T361	TA-20(JD)-TW157-18	X	339009	F						06153	00	E	4320	SGT-FU-1B TEMP. BEFORE SGT-EHC-1F-	R	582	J.3/5.5	R71			SGT-FU-1B+	18	2	P	2 0	G	M544	D13
SGT-TE-6A	T361	TA-20(JD)-TW157-18	Z X	339009							05273	00	E	4320	SGT-FU-1A TEMP. AFTER SGT-CF-1A-1	R	577	H.6/6.0	R71			SGT-FU-1A+	18	2	P	2 0	G	M544	H11
SGT-TE-6B	T361	TA-20(JD)-TW157-18	Z X	339009		N					05273	04	E	4320	SGT-FU-1B TEMP. AFTER SGT-CF-1B-1	R	576	J.5/6.0	R71			SGT-FU-1B+	18	2	P	2 0	G	M544	C10
SGT-TE-7A	T361	TA-20(JD)-TW157-18	Z X	339009		N					05273	04	E	4320	SGT-FU-1A TEMP. AFTER SGT-CF-1A-2	R	577	H.6/7.2	R71			SGT-FU-1A+	18	2	P	2 0	G	M544	H9
SGT-TE-7B	T361	TA-20(JD)-TW157-18	Z X	339009		N					05273	04	E	4320	SGT-FU-1B TEMP. AFTER SGT-CF-1B-2	R	577	J.5/7.2	R71			SGT-FU-1B+	18	2	P	2 0	G	M544	C9
SGT-TE-8A	H329	A-10402	X X	339009							06153	05		4320	SGT FAN DISCH HEADER	R	572		R72				215	2	P	2 0	G	M544	F4
SGT-TE-8B	H329	A-10402	X X	339009							06153	05		4320	SGT FAN DISCH HEADER	R	572		R72				215	2	P	2 0	G	M544	F4
SGT-TS-1A1	F081	21110-0	X X	355014	D	N					05273	04	E	4320	SGT-ESH-1A UPSTREAM LO TEMP AL	R	579	H.8/6.4	R72			SGT-FU-1A+	18	2	P	2 0	G	M544	J11
SGT-TS-1A11	F081	18000-0	X X	355003	D	N	221			33+				4320	SGT-ESH-1A UPSTREAM HI TEMP	R	579	H.8/6.3	R72	R608		SGT-FU-1A+	18	2	P	2 0	G	M544	J11

EPN / CONTRACT	LEVEL	MFG DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG	ELEV	STATUS S E DETAIL / A/E ZONE	QID	TM ZONE	HL TEST ANL FO C ROOM	FREQ ACCURACY	*ENV. (E) PARAMETERS* AGING	OBE	C	HOURS COMPOSITE EPN
SGT-TS-1A2		F081		21110-0				X X	355014	D	N		05273	04	E	4320
SGT-ESH-1A UPSTREAM HI TEMP AL						R	579	H.8/6.7		R72			SGT-FU-1A+			
18	2	P 2 0 G			M544			J11								
SGT-TS-1A21		F081		18000-0				X X	355003	D	N 221	33+				4320
SGT-ESH-1A UPSTREAM HI TEMP C/O						R	579	H.7/6.2		R72	R608		SGT-FU-1A+			
18	2	P 2 0 G			M544			J11								
SGT-TS-1A3		F081		21110-0				X X	355014	D	N		05273	04	E	4320
SGT-ESH-1A DOWNSTREAM LOW TEMP AL						R	572			R72			SGT-FU-1A+			
18	2	P 2 0 G			M544			J10								
SGT-TS-1A31		F081		18000-00				X X	355003	D	N 221	33+				4320
SGT-ESH-1A DWNSTM HI TEMP						R	579	H.9/6.2		R72	R608		SGT-FU-1A+			
18	2	P 2 0 G			M544			J10								
SGT-TS-1A4		F081		21110-0				X X	355014	D	N		05273	04	E	4320
SGT-ESH-1A DWNSTM HI TEMP AL						R	579	H.8/6.6		R72			SGT-FU-1A+			
18	2	P 2 0 G			M544			J10								
SGT-TS-1A41		F081		18000-00				X X	355003	D	N 221	33+				4320
SGT-ESH-1A DWNSTM HI TEMP C/O						R	579	H.8/6.4		R72	R608		SGT-FU-1A+			
18	2	P 2 0 G			M544			J10								
SGT-TS-1B1		F081		21110-0				X X	355014	D	N		05273	04	E	4320
SGT-ESH-1B UPSTREAM LO TEMP AL						R	579	J.2/6.4		R71			SGT-FU-1B+			
18	2	P 2 0 G			M544			E11								
SGT-TS-1B11		F080		18000-0				X X	355003	D	N 221	33+				4320
SGT-ESH-1B UPSTM HI TEMP						R	579	J.1/6.2		R71	R607		SGT-FU-1B+			
18	2	P 2 0 G			M544			E11								
SGT-TS-1B2		F081		21110-0				X	355014	D	N		05273	04	E	4320
SGT-ESH-1B UPSTM HI TEMP AL						R	579	J.3/6.9		R71			SGT-FU-1B+			
18	2	P 2 0 G			M544			E11								
SGT-TS-1B21		F081		18000-0				X X	355003	D	N 221	33+				4320
SGT-ESH-1B UPSTRM HI TEMP C/O						R	582	J.3/6.3		R71	R607		SGT-FU-1B+			
18	2	P 2 0 G			M544			E11								
SGT-TS-1B3		F081		21110-0				X X	355014	D	N		05273	04	E	4320
SGT-ESH-1B DWNSTRM LO TEMP AL						R	579	J.2/6.6		R71			SGT-FU-1B+			
18	2	P 2 0 G			M544			E10								
SGT-TS-1B31		F081		18000-0				X X	355003	D	N 221	33+				4320
SGT-ESH-1B DWNSTRM HI TEMP						R	579	J.2/6.4		R71	R607		SGT-FU-1B+			
18	2	P 2 0 G			M544			F10								
SGT-TS-1B4		F081		21110-0				X X	355014	D	N		05273	04	E	4320
SGT-ESH-1B DWNSTM HI TEMP AL						R	579	J.2/6.6		R71			SGT-FU-1B+			
18	2	P 2 0 G			M544			F10								

EPN / CONTRACT	LEVEL	MFG DESCRIPTION / EC	USE	SAFETY FUNCTION	MODEL / A/E	BLDG ELEV DRAWING / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TH	***SEISMIC (S) PARAMETERS*** HL TEST ANL FO C / ROOM	FREQ / ACCURACY	*ENV. (E) PARAMETERS* AGING DBE C HOURS / COMPOSITE EPN
SGT-TS-1B41		F081		18000-0			X X	355003	D	N 221	33+	4320
SGT-ESH-1B DWNSTRM HI TEMP C/O						R 579 J.2/6.4		R71		R607		SGT-FU-1B+
18	2	P	2	0 G	M544		E10					
SGT-TS-2A1		F081		21110-0			X X	355014	D	N		05273 04 E 4320
SGT-ESH-2A UPSTM LO TEMP AL						R 579 H.8/6.7		R72				SGT-FU-1A+
18	2	P	2	0 G	M544		J10					
SGT-TS-2A11		F081		18000-00			X X	355003	D	N 221	33+	4320
SGT-ESH-2A UPSTM HI TEMP						R 579 H.7/7.0		R72		R608		SGT-FU-1A+
18	2	P	2	0 G	M544		J10					
SGT-TS-2A2		F081		21110-0			X X	355014	D	N		05273 04 E 4320
SGT-ESH-2A UPSTM HI TEMP AL						R 579 H.7/6.8		R71				SGT-FU-1A+
18	2	P	2	0 G	M544		J10					
SGT-TS-2A21		F081		18000-00			X X	355003	D	N 221	33+	4320
SGT-ESH-2A UPSTM HI TEMP C/O						R 579 H.9/7.0		R71		R608		SGT-FU-1A+
18	2	P	2	0 G	M544		J11					
SGT-TS-2A3		F081		21110-0			X X	355014	D	N		05273 04 E 4320
SGT-ESH-2A DWNSTM LO TEMP AL						R 579 H.8/6.8		R71				SGT-FU-1A+
18	2	P	2	0 G	M544		J9					
SGT-TS-2A31		F081		18000-00			X X	355003	D	N 221	33+	4320
SGT-ESH-2A DWNSTM HI TEMP						R 579 H.8/6.9		R71		R608		SGT-FU-1A+
18	2	P	2	0 G	M544		J9					
SGT-TS-2A4		F081		21110-0			X	355014	D	N		05273 04 E 4320
SGT-ESH-2A DWNSTM HI TEMP AL						R 572 H.8/6.8		R71				SGT-FU-1A+
18	2	P	2	0 G	M544		J9					
SGT-TS-2A41		F081		18000-00			X X	355003	D	N 221	33+	4320
SGT-ESH-2A DWNSTM HI TEMP C/O						R 579 H.8/6.9		R71		R608		SGT-FU-1A+
18	2	P	2	0 G	M544		E9					
SGT-TS-2B1		F081		21110-0			X X	355014	D	N		05273 04 E 4320
SGT-ESH-2B UPSTRM LO TEMP AL						R 579 J.1/6.7		R71				SGT-FU-1B+
18	2	P	2	0 G	M544		E10					
SGT-TS-2B11		F081		18000-0			X X	355003	D	N 221	33+	4320
SGT-ESH-2B UPSTRM HI TEMP						R 579 J.3/7.0		R71		R607		SGT-FU-1B+
18	2	P	2	0 G	M544		E10					
SGT-TS-2B2		F081		21110-0			X	355014	D			05273 04 E 4320
SGT-ESH-2B UPSTRM HI TEMP AL						R 579 J.3/6.8		R71				SGT-FU-1B+
18	2	P	2	0 G	M544		E10					
SGT-TS-2B21		F081		18000-0			X X	355003	D	N 221	33+	4320
SGT-ESH-2B UPSTRM HI TEMP C/O						R 579 J.1/7.0		R71		R607		SGT-FU-1B+
18	2	P	2	0 G	M544		E10					

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING / A/E ZONE	STATUS S E / DETAIL / QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / HL / TEST / ANL / FO / C / FREQ / ROOM / ACCURACY	*ENV. (E) PARAMETERS* AGING / DBE / C / HOURS / COMPOSITE EPN
SGT-TS-2B3 SGT-ESH-2B DWNSTM LO TEMP AL 18 2 P 2 0 G	F081 21110-0 R 579 J.2/6.8 M544	X X E9	355014 D N R71	05273 04 E 4320 SGT-FU-1B+
SGT-TS-2B31 SGT-ESH-2B DWNSTM HI TEMP 18 2 P 2 0 G	F081 18000-0 R 579 J.2/6.9 M544	X X E9	355003 D N 221 R71 R607	33+ 4320 SGT-FU-1B+
SGT-TS-2B4 SGT-ESH-2B DWNSTM HI TEMP AL 18 2 P 2 0 G	F081 21110-0 R 579 J.2/6.8 M544	X X E9	355014 D N R71	05273 04 E 4320 SGT-FU-1B+
SGT-TS-2B41 SGT-ESH-2B DWNSTM HI TEMP C/O 18 2 P 2 0 G	F081 18000-0 R 579 J.2/6.9 M544	X X J9	355003 D N 221 R71 R607	33+ 4320 SGT-FU-1B+
SGT-TS-EH1A11 CONTROL OF STAGE 1 OF SGT-EHC-1A1 18 2 A 1 0 D,F	F081 18000-0 R 572 H.4/5.9 M544	X X J11	355003 D N 221	33+ 4320 SGT-FU-1A+
SGT-TS-EH1A110 CONTROL OF SGT-EHC-1A1 18 2 A 1 0 D,F	F081 18000-0 R 572 H.4/5.9 E686	X X 	355003 D N 221	33+ 4320 SGT-FU-1A+
SGT-TS-EH1A111 CONTROL OF HEATER SGT-EHC-1A1 18 2 A 1 0 D,F	F081 18000-0 R 572 H.4/5.9 18-00-0092	X X C7	355003 D N 221	33+ 4320 SGT-FU-1A+
SGT-TS-EH1A112 CONTROL OF HEATER SGT-EHC-1A1 18 2 A 1 0 D,F	F081 18000-0 R 572 H.4/5.9 E686	X X 	355003 D N 221	33+ 4320 SGT-FU-1A+
SGT-TS-EH1A113 CONTROL OF HEATER SGT-EHC-1A1 18 2 A 1 0 D,F	F081 18000-0 R 572 H.4/5.9 18-00-0092	X X C7	355003 D N 221	33+ 4320 SGT-FU-1A+
SGT-TS-EH1A114 CONTROL OF HEATER SGT-EHC-1A1 18 2 A 1 0 D,F	F081 18000-0 R 572 H.4/5.9 18-00-0092	X X C6	355003 D N 221	33+ 4320 SGT-FU-1A+
SGT-TS-EH1A115 CONTROL OF HEATER SGT-EHC-1A1 18 2 A 1 0 D,F	F081 18000-0 R 572 H.4/5.9 18-00-0092	X X C6	355003 D N 221	33+ 4320 SGT-FU-1A+
SGT-TS-EH1A116 CONTROL OF HEATER SGT-EHC-1A1 18 2 A 1 0 D,F	F081 18000-0 R 572 H.4/5.9 18-00-0092	X X C6	355003 D N 221	33+ 4320 SGT-FU-1A+
SGT-TS-EH1A117 CONTROL OF HEATER SGT-EHC-1A1 18 2 A 1 0 D,F	F081 18000-0 R 572 H.4/5.9 18-00-0092	X X C6	355003 D N 221	33+ 4320 SGT-FU-1A+

EPN / CONTRACT	LEVEL	MFG EC	DESCRIPTION USE	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / ROOM	HL TEST ANL FO C / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C / COMPOSITE EPN	HOURS
SGT-TS-EH1A118		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF HEATER SGT-EHC-1A1					R	572	H.4/5.9					SGT-FU-1A+	
18	2	A	1 0	D,F	18-00-0092		C6						
SGT-TS-EH1A12		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF STAGE 1 OF SGT-EHC-1A1					R	572	H.4/5.9					SGT-FU-1A+	
18	2	A	1 0	D,F	18-00-0092		E6						
SGT-TS-EH1A13		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF STAGE 1 OF SGT-EHC-1A1					R	572	H.4/5.9					SGT-FU-1A+	
18	2	A	1 0	D,F	18-00-0092		E6						
SGT-TS-EH1A14		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF STAGE 2 OF SGT-EHC-1A1					R	572	H.4/5.9					SGT-FU-1A+	
18	2	A	1 0	D,F									
SGT-TS-EH1A15		F081		18000-0			X X	355003	D	221	33+		4320
CONTROL OF STAGE 2 OF SGT-EHC-1A1					R	572	H.4/5.9					SGT-FU-1A+	
18	2	A	1 0	D,F									
SGT-TS-EH1A16		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF STAGE 2 OF SGT-EHC-1A1					R	572	H.4/5.9					SGT-FU-1A+	
18	2	A	1 0	D,F									
SGT-TS-EH1A17		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF STAGE OF SGT-EHC-1A1					R	572	H.4/5.9					SGT-FU-1A+	
18	2	A	1 0	D,F									
SGT-TS-EH1A18		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF STAGE 3 OF SGT-EHC-1A1					R	572	H.4/5.9					SGT-FU-1A+	
18	2	A	1 0	D,F									
SGT-TS-EH1A19		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF STAGE 3 OF SGT-EHC-1A1					R	572	H.4/5.9					SGT-FU-1A+	
18	2	A	1 0	D,F									
SGT-TS-EH1A21		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF STAGE 1 OF SGT-EHC-1A2					R	572	H.8/6.0					SGT-FU-1A+	
18	2	A	1 0	D,F									
SGT-TS-EH1A210		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF HEATER SGT-EHC-1A2					R	572	H.8/6.0					SGT-FU-1A+	
18	2	A	1 0	D,F									
SGT-TS-EH1A211		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF HEATER SGT-EHC-1A2					R	572	H.8/6.0					SGT-FU-1A+	
18	2	A	1 0	D,F									
SGT-TS-EH1A212		F081		18000-0			X X	355003	D N	221	33+		4320
CONTROL OF HEATER SGT-EHC-1A2					R	572	H.8/6.0					SGT-FU-1A+	
18	2	A	1 0	D,F									

EPN / CONTRACT	LEVEL	MFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL	BLDG ELEV A/E DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ROOM	ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C COMPOSITE EPN	HOURS
SGT-TS-EH1A213		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF HEATER SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F									
SGT-TS-EH1A214		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF AHEATER SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F									
SGT-TS-EH1A215		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF HEATER SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F									
SGT-TS-EH1A216		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF HEATER SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F									
SGT-TS-EH1A217		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF HEATER SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F		18-00-0092	C6						
SGT-TS-EH1A218		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF HEATER SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F		18-00-0092	C6						
SGT-TS-EH1A22		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF STAGE 1 OF SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F		18-00-0092	E6						
SGT-TS-EH1A23		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF STAGE 1 OF SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F		18-00-0092	E6						
SGT-TS-EH1A24		F081		18000-0			X X	355003 D N 221					4320
CONTROL OF STAGE 2 OF SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F		18-00-0092	E7						
SGT-TS-EH1A25		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF STAGE 2 OF SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F		18-00-0092	E7						
SGT-TS-EH1A26		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF STAGE 2 SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F		18-00-0092	E7						
SGT-TS-EH1A27		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF STAGE 3 OF SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F		18-00-0092	E7						
SGT-TS-EH1A28		F081		18000-0			X X	355003 D N 221			33+		4320
CONTROL OF STAGE 3 OF SGT-EHC-1A2						R 572 H.8/6.0						SGT-FU-1A+	
18	2	A	1	0 D.F		18-00-0092	E7						

EPN / CONTRACT	LEVEL	MFG / DESCRIPTION / EC	USE	MODEL / SAFETY FUNCTION	BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL	QID / ZONE	TM	HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / COMPOSITE EPN	OBE	C	HOURS
SGT-TS-EH1A29		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF STAGE 3 OF SGT-EHC-1A2					R 572	H.8/6.0					SGT-FU-1A+			
18	2	A	1 0	D,F	18-00-0092	E6								
SGT-TS-EH1B11		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF STAGE 1 OF SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C7								
SGT-TS-EH1B110		F081		18000-0		Y X	355003				05253	01	E	4320
CONTROL OF HEATER SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F										
SGT-TS-EH1B111		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF HEATER SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C7								
SGT-TS-EH1B112		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF HEATER SGT-EHC 1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C7								
SGT-TS-EH1B113		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF HEATER SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C7								
SGT-TS-EH1B114		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF HEATER SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C6								
SGT-TS-EH1B115		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF HEATER SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C6								
SGT-TS-EH1B116		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF HEATER SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C6								
SGT-TS-EH1B117		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF HEATER SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C6								
SGT-TS-EH1B118		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF HEATER SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C6								
SGT-TS-EH1B12		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF STAGE 1 OF SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	F6								
SGT-TS-EH1B13		F081		18000-0		X X	355003	D	N 221	33+				4320
CONTROL OF STAGE 1 OF SGT-EHC-1B1					R 572	J.5/6.0					SGT-FU-1B+			
18	2	A	1 0	D,F	18-00-0092	C6								

EPN / CONTRACT	LEVEL	MFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL A/E DRAWING	BLDG ELEV A/E ZONE	STATUS S E DETAIL	QID ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ANL FO C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
SGT-TS-EH1B14		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF STAGE 2 OF SGT-EHC-1B1					R 572 J.5/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	E7					
SGT-TS-EH1B15		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF STAGE 2 OF SGT-EHC-1B1					R 572 J.5/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	E7					
SGT-TS-EH1B16		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF STAGE 2 OF SGT-EHC-1B1					R 572 J.5/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	E7					
SGT-TS-EH1B17		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF STAGE 3 OF SGT-EHC-1B1					R 572 J.5/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	E7					
SGT-TS-EH1B18		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF STAGE 3 OF SGT-EHC-1B1					R 572 J.5/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	E7					
SGT-TS-EH1B19		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF STAGE 3 OF SGT-EHC-1B1					R 572 J.5/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	E6					
SGT-TS-EH1B21		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF STAGE 1 OF SGT-EHC-1B2					R 572 J.2/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	C7					
SGT-TS-EH1B210		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF STAGE 1 OF SGT-EHC-1B2					R 572 J.2/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	C7					
SGT-TS-EH1B211		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF HEATER SGT-EHC-1B2					R 572 J.2/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	C7					
SGT-TS-EH1B212		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF HEATER SGT-EHC-1B2					R 572 J.2/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	E686						
SGT-TS-EH1B213		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF HEATER SGT-EHC-1B2					R 572 J.2/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	C7					
SGT-TS-EH1B214		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF HEATER SGT-EHC-1B2					R 572 J.2/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F	18-00-0092	C6					
SGT-TS-EH1B215		F081		18000-0			X X	355003	D N 221	33+	4320
CONTROL OF HEATER SGT-EHC-1B2					R 572 J.2/6.0					SGT-FU-1B+	
18	2	A	1 0	D,F							

EPN / CONTRACT	LEVEL	MFG DESCRIPTION EC	USE	SAFETY FUNCTION	MODEL / BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / HL / ROOM	TEST / ANL / ACCURACY	FO / C	FREQ	*ENV. (E) PARAMETERS* AGING / DBE / COMPOSITE EPN	C	HOURS
SGT-TS-EH1B216		F081		18000-0		X X	355003	D		221	33+			4320
CONTROL OF HEATER SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	C6								
SGT-TS-EH1B217		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF HEATER SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	C6								
SGT-TS-EH1B218		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF HEATER SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	C6								
SGT-TS-EH1B22		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF STAGE 1 OF SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	E6								
SGT-TS-EH1B23		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF STAGE 1 OF SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	E6								
SGT-TS-EH1B24		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF STAGE 2 OF SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	E7								
SGT-TS-EH1B25		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF STAGE 2 OF SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	E7								
SGT-TS-EH1B26		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF STAGE 2 OF SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	E6								
SGT-TS-EH1B27		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF STAGE 3 OF SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	E6								
SGT-TS-EH1B28		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF STAGE 3 OF SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	E6								
SGT-TS-EH1B29		F081		18000-0		X X	355003	D	N	221	33+			4320
CONTROL OF STAGE 3 OF SGT-EHC-1B2					R 572	J.2/6.0						SGT-FU-1B+		
18	2	A	1 0	D,F	18-00-0092	E6								
SLC-V-4A		C515		1832159		X X	361003			114	33+			4320
1.5" EXPLO SLC INLET TO PRIMARY					R 548	M.2/3.7		R63				SLC-V-4A+		
02C41	2	P	2 0	B1,G	M522	F8								
SLC-V-4B		C515		1832159		X X	361003			114	33+			4320
1.5" EXPLO SLC INLET TO PRIMARY					R 548	M.2/3.8		R63				SLC-V-4B+		
02C41	2	P	2 0	B1,G	M522	D8								

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG ELEV / A/E DRAWING	STATUS S E / DETAIL / A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / HL TEST / ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / DBE / C / HOURS / COMPOSITE EPN
SPTM-TE-10 SUPPRESSION POOL TEMP, OPER INFO 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 448 45D AZ B5	B X	339002	Y 02	33+	04293 00 E 4320
SPTM-TE-11 SUPPRESSION POOL TEMP, OPER INFO 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 448 90D AZ B5	B X	339002	Y 02	33+	04293 10 E 4320
SPTM-TE-12 SUPRESSION POOL TEMP, OPER INFO 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 447 135D AZ B4	B X	339002	Y 02	33+	04293 00 E 4320
SPTM-TE-13 SUPPRESSION POOL TEMP, OPER INFO 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 447 180D AZ B4	B X	339002	Y 02	33+	04293 10 E 4320
SPTM-TE-14 SUPPRESSION POOL TEMP, OPER INFO 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 447 225D AZ B3	B X	339002	Y 02	33+	04293 00 E 4320
SPTM-TE-15 SUPPRESSION POOL TEMP, OPER INFO 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 447 270D AZ B3	B X	339002	Y 02	33+	04293 10 E 4320
SPTM-TE-16 SUPPRESSION POOL TEMP, OPER INFO 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 447 315D AZ B2	B X	339002	Y 02	33+	04293 00 E 4320
SPTM-TE-1A SUPPRESSION POOL TEMP 218	2	A	1 0 I	TC-113X-T-A24-3 M519	C 466 0D AZ D6	B X	339002	Y 02	33+	04293 10 E 4320
SPTM-TE-1B SUPPRESSION POOL TEMP 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 466 0D AZ D6	B X	339002	Y 02	33+	04293 00 E 4320
SPTM-TE-2A SUPPRESSION POOL TEMP 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 466 45D AZ D5	B X	339002	Y 02	33+	04293 10 E 4320
SPTM-TE-2B SUPPRESSION POOL TEMP 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 466 45D AZ D5	B X	339002	Y 02	33+	04293 00 E 4320
SPTM-TE-3A SUPPRESSION POOL TEMP 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 466 90D AZ D3	B X	339002	Y 02	33+	04293 10 E 4320
SPTM-TE-3B SUPPRESSION POOL TEMP 218	2	A	1 0 I	TC-113X-T-A-24-3 M519	C 466 90D AZ D3	B X	339002	Y 02	33+	04293 00 E 4320

CONTRACT	EPN / DESCRIPTION	LEVEL	EC	MFG / USE	SAFETY FUNCTION	MODEL / A/E	BLDG ELEV / DRAWING	STATUS S E / DETAIL	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM / HL TEST / ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / DBE C / COMPOSITE EPN	HOURS
SPTM-TE-4A	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 10 E	4320
218		2	A	1 0 I		M519	C 466 135D AZ D4						
SPTM-TE-4B	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 00 E	4320
218		2	A	1 0 I		M519	C 466 135 D AZ D4						
SPTM-TE-5A	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 10 E	4320
218		2	A	1 0 I		M519	C 466 180 D AZ D5						
SPTM-TE-5B	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 00 E	4320
218		2	A	1 0 I		M519	C 466 180 D AZ D5						
SPTM-TE-6A	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 10 E	4320
218		2	A	1 0 I		M519	C 466 225D AZ D4						
SPTM-TE-6B	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 00 E	4320
218		2	A	1 0 I		M519	C 466 225D AZ D4						
SPTM-TE-7A	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 10 E	4320
218		2	A	1 0 I		M519	C 466 270D AZ D2						
SPTM-TE-7B	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 00 E	4320
218		2	A	1 0 I		M519	C 466 270D AZ D2						
SPTM-TE-8A	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 10 E	4320
218		2	A	1 0 I		M519	C 466 315D AZ D4						
SPTM-TE-8B	SUPPRESSION POOL TEMP			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 00 E	4320
218		2	A	1 0 I		M519	C 466 310 AZ D4						
SPTM-TE-9	SUPPRESSION POOL TEMP, OPER INFO			M329	TC-113X-T-A-24-3			B X	339002	Y 02	33+	04293 10 E	4320
218		2	A	1 0 I		M519	C 447 0D AZ B5						
SRM-CONN-01	CONNECTOR FOR SRM-DET-1A			GOR0	114B5388G004			D	049009			10 G	4320
02C51		3	P	2 3 I		807E162TC	C BENEATH RPV						
SRM-CONN-02	CONNECTOR FOR SRM-DET-1B			GOR0	114B5388G004			D	049009			10 G	4320
02C51		3	P	2 3 I		807E162TC	C BENEATH RPV						

EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL / BLDG ELEV A/E DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	***SEISMIC (S) PARAMETERS*** TH HL TEST ANL FO C ROOM ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING DBE C HOURS COMPOSITE EPN
SRM-CONN-03 CONNECTOR FOR SRM-DET-1C 02C51 3 P 2 3 I	G080 114B5388G004 C 807E162TC	D BENEATH RPV	049009			10 G 4320
SRM-CONN-04 CONNECTOR FOR SRM-DET-1D 02C51 3 P 2 3 I	G080 114B5388G004 C 807E162TC	J BENEATH RPV	049009			10 G 4320
SRM-DET-1A SOURCE RANGE DETECTOR 02C51 2 A 1 3 I	G080 112C3144G7 C	X D IN RPV	067003	Y	MS-RPV-3+	10 G 4320
SRM-DET-1B SOURCE RANGE DETECTOR 02C51 2 A 1 3 I	G080 112C3144G7 C	X D IN RPV	067003	Y	MS-RPV-3+	10 G 4320
SRM-DET-1C SOURCE RANGE DETECTOR 02C51 2 A 1 3 I	G080 112C3144G7 C	X D IN RPV	067003	Y	MS-RPV-3+	10 G 4320
SRM-DET-1D SOURCE RANGE DETECTOR 02C51 2 A 1 3 I	G080 112C3144G7 C	X J IN RPV	067003	Y	MS-RPV-3+	10 G 4320
SRM-EAMP-1A PULSEPREAMPLIFIER FOR SRM-DET-1A 02C51 3 A 1 3 I	G080 112C2276G001 R 501	R D L.6/3.5	106002		05153 E-IR-P030+	10 G 4320
SRM-EAMP-1B PULSE PREAMPLIFIER FOR SRM-DET-1A 02C51 3 A 1 3 I	G080 112C2276G001 R 501	R D H.4/7.7	106002		05153 E-IR-P031+	10 G 4320
SRM-EAMP-1C PULSE PREAMPLIFIER FOR SRM-DET-1C 02C51 3 A 1 3 I	G080 112C2276G001 R 501	R D L.5/3.5	106002		05153 E-IR-P032+	10 G 4320
SRM-EAMP-1D PULSE PREAMPLIFIER FOR SRM-DET-1D 02C51 3 A 1 3 I	G080 112C2276G001 R 501	R J H.8/8.3	106002		05153 E-IR-P033+	10 G 4320
SW-FS-17A2 FLOW SW RHR-P-2A COOL WTR 220 3 P 2 0 G	S254 7PS11DOW R 426 M524/1	X X K.0/8.3 F9	090001 R11		06153	02 4320
SW-FS-17B2 FLOW SWITCH RHR-P-2B COOL WTR 220 3 P 2 0 G	S254 7PS11DOW R 422 M524/2	X X L.0/8.3 D10	090001 R12		06153	02 4320
SW-FS-17C2 FLOW SW RHR-P-2C COOL WTR 220 3 P 2 0 G	S254 7PS11DOW R 426 M524/2	X X H.7/4.3 G10	090001 R12		06153	02 4320

EPN / CONTRACT	LEVEL	DESCRIPTION / EC	USE	MFG	SAFETY FUNCTION	MODEL / A/E DRAWING	BLDG	ELEV	STATUS / DETAIL / A/E ZONE	S	E	QID / ZONE	TM / ROOM	HL	TEST	ANL	FO	C	FREQ / ACCURACY	*ENV. AGING / COMPOSITE EPN	(E) DBE	C	HOURS
SW-FS-19				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW LPCS-P-1 COOL WTR							R	426	K.2/3.5				R22										
220	3	P	2	0	G	M524/1			C9														
SW-FS-23A				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-2 OUTLET							R	444	K.7/8.1				R13										
220	3	P	2	0	G	M524/1			G9														
SW-FS-23B				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-3 OUTLET							R	448	L.3/8.0				R23										
220	3	P	2	0	G	M524/2			E10														
SW-FS-23C				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-1 OUTLET							R	448	H.7/4.2				R22										
220	3	P	2	0	G	M524/2			J10														
SW-FS-25				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-5 OUTLET							R	449	K.9/4.0				R21										
220	3	P	2	0	G	M524/1			D9														
SW-FS-29				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-6 OUTLET							R	445	J.0/7.7				R21										
220	3	P	2	0	G	M524/2			C11														
SW-FS-39				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-10 OUTLET							R	526	N.1/4.1				R53										
220	3	P	2	0	G	M524/2			F13														
SW-FS-40				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-11 OUTLET							R	526	H.6/7.6				R51										
220	3	P	2	0	G	M524/1			D11														
SW-FS-41				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-12 OUTLET							R	471	H.3/8.4				R31										
220	3	P	2	0	G	M524/1			D11														
SW-FS-43				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-15 OUTLET							R	553	M.7/4.4				R63										
220	3	P	2	0	G	M524/1			D12														
SW-FS-44				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SWITCH RRA-CC-17 OUTLET							R	552	M.7/5.4				R63										
220	3	P	2	0	G	M524/2			J13														
SW-FS-60				S254	7PS11DOW					X	X	090001								06153	02		4320
FLOW SW RRA-CC-13 OUTLET							R	577	M.3/6.1				R73										
220	3	P	2	0	G	M524/1			H12														
SW-FS-61				S254	7PS11DOW					X	X	090001								06153	07	E	4320
FLOW SW RRA-CC-14 OUTLET							R	577	M.7/7.9				R73										
220	3	P	2	0	G	M524/2			L11														

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL	BLDG ELEV / A/E DRAWING	A/E ZONE	STATUS S E	QID	TM	HL	TEST	ANL	FO	C	FREQ ACCURACY	ROOM	*ENV. (E) PARAMETERS* AGING	DBE	C	HOURS COMPOSITE EPN
SW-FS-69A FLOW SW CAC-HR-1A OUTLET 220	3	P	2	0 G	S254 7PS11DOW	R 576	M.5/6.9 M524/1	X X F12	090001							R73		06153	02		4320
SW-FS-69B FLOW SW CAC-HR-1B OUTLET 220	3	P	2	0 G	S254 7PS11DOW	R 577	M.6/7.8 M524/2	X X H11	090001							R73		06153	02	E	4320
SW-FS-71A FLOW SWITCH FROM RRA-CC-20 220	3	P	2	0 G	S254 7PS11DOW	R 548 M524/1		X X G14	090001									06153	02	E	4320
SW-FS-71B FLOW SWITCH FROM RRC-CC-19 220	3	P	2	0 G	S254 7PS11DOW	R 548 M524/2		X X C13	090001									06153	02	E	4320
SW-FT-7A SW FLOW TO RHR-HX-1A XMITER 02E12	3	P	2	3 G	R369 1151	R 503	J.6/3.6 M524/1	Y X B15	259003	N	14	00			33+	R73		E-IR-P018+			4320
SW-FT-7B SW FLOW TO RHR-HX-1B XMITER 02E12	3	P	2	3 G	R369 1151	R 503	H.9/9.3 M524/2	Y X E15	259003	N	14	00			33+	R73		E-IR-P021+			4320
SW-MO-187A MO FOR SW-V-187A INTO FPC-HX-1A 41A	2	A	1	0 F	L200 SMB00	R 554	K.6/8.4 M524/1	G J G14	221001									SW-V-187A+	10	C	4320
SW-MO-187B SW-V-187B MO SW INTO FPC-HX-1B 41A	2	A	1	0 F	L200 SMB-00	R 560	L.4/9.1 M524/2	G M C14	221001									SW-V-187B+	00	C	4320
SW-MO-188A SW-V-188A MO SW OUT OF FPC-HX-1A 41A	2	A	1	0 F	L200 SMB-00	R 552	K.6/9.1 M524/1	G J H14	221001									SW-V-188A+	10	C	4320
SW-MO-188B SW-V-188B MO SW OUT OF FPC-HX-1B 41A	2	A	1	0 F	L200 SMB-00	R 552	L.4/9.1 M524/2	G M D12	221001									SW-V-188B+	00	C	4320
SW-MO-24A 0.32HP MOTOR OPERATOR SW-V-24A 215	2	A	1	3 C,E,J	L200 SMC-04-5/42	R 448	K.6/8.0 M524/1	A X G9	221001	N	14	00			33	R21	R116	SW-V-24A+	10	C	4320
SW-MO-24B 0.32HP MOTOR OPERATOR SW-V-24B 215	2	A	1	3 C,E,J	L200 SMC-04-5/42	R 450	L8/8.3 M524/2	A X F10	221001	N	14	00			33	R23	R115	SW-V-24B+	10		4320
SW-MO-24C 0.32HP MOTOR OPERATOR SW-V-24C 215	2	A	1	3 C,E,J	L200 SMC-04-5/42	R 444	H.7/4.3 M524/2	A X K10	221001	N	14	00			33	R22	R113	SW-V-24C+	10	C	4320

EPN / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / DESCRIPTION	BLDG ELEV A/E DRAWING	STATUS S E / DETAIL A/E ZONE	QID / ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C / ROOM / ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING / DBE C / COMPOSITE EPN	HOURS
SW-MO-44			L200	SMC-04			A X	221001	N 14 00	33	10 C	4320
0.5HP MOTOR OPERATOR SW-V-44						R 449	K.9/3.9	R22	R114		SW-V-44*	
215	2	A	1 0	C,J		M524/1	D9					
SW-MO-54			L200	SMC-04-5/42			A X	221001 P	Y 114	33*	10	24
0.5HP MOTOR OPERATOR SW-V-54						R 450	M9/4.0	R23	R106		SW-V-54*	
215	2	A	1 0	J		M524/1	F7					
SW-MO-75A			L200	SMB-00			A X	221001			10	4320
MOTOR OPERATOR FOR SW-V-75A						R 534	K.2/9.2	R61			SW-V-75A*	
215	2	A	1 0	F		M524/1	B13					
SW-MO-75B			L200	SMB-00			A X	221001 P			00	4320
MOTOR OPERATOR FOR SW-V-75B						R 531	M.2/9.2	R61			SW-V-75B*	
215	2	A	1 0	F		M524/2	B14					
SW-PS-1014			A499	SC11AR/GT10A44R			X J	256001 R	N 114	50		4320
SUPPLY TO H2-02 ANALY SW-V-754						R 554	M.7/4.5	R63				
220	2	A	1 3	F		M607/2	C14					
SW-PS-1015			A499	SC11AR/GT10A44R			X R	256001 R	N 114	50		4320
SUPPLY TO H2-02-ANALY SW-V-755						R 554	M.6/4.9	R63				
220	2	A	1 3	F		M607/2	B15					
SW-PT-38A			R369	1151GP7A22T003PB			X X	259003			06153 02 E	4320
PRESS TRANS						R 522	J.0/6.7	R51			E-IR-71*	
59	2	P	2 0	G		M524/1	C14					
SW-PT-38B			R369	1151GP7A22T0003PB			X X	259003			06153 02 E	4320
PRESS TRANS						R 525	N.0/8.2	C54			E-IR-69*	
59	2	P	2 0	G		M524/2	E14					
SW-RE-4			G080	117B1681G001			X D	277004			05153 10 E	4320
RHR HX 1A RADIATION ELEMENT						R 522	K.6/9.0	R51			S-SR-42*	
02D17	2	P	2 0	G		M524/1	A5					
SW-RE-5			G080	117B1681G001			X D	277004			05153 10 E	4320
RHR HX1B RADIATION ELEMENT						P 522	N.1/9.0	R53			S-SR-43*	
02D17	2	P	2 0	G		M524/2	J15					
SW-TS-17A			U075	6BS			X X	355021			06153 02	4320
TEMP SW						R 427	K.1/7.8	R11				
220	2	P	2 0	G		M524/1	F9					
SW-TS-17B			U075	F3026BS			X X	355021			06153 02	4320
TEMP SW						R 422		R13				
220	2	P	2 0	G		M524/2	E10					
SW-TS-17C			U075	6BS			X X	355021			06153 02	4320
TEMP SW						R 426	M.6/5.0	R12				
220	2	P	2 0	G		M524/2	M10					

CONTRACT	EPN LEVEL	EC	MFG USE	MODEL SAFETY FUNCTION	BLDG ELEV A/E DRAWING	STATUS S E DETAIL A/E ZONE	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ANL FO C ROOM	FREQ ACCURACY	*ENV. (E) PARAMETERS* AGING OBE C HOURS COMPOSITE EPN
SW-TS-19			U075	6BS		X X	355021			06153 02 4320
TEMP SW					R 443	J.9/3.6	R12			
220	2	P	2 0 G		M524/1	C9				
SW-TS-23A			U075	6BS		X X	355021			06153 02 4320
TEMP SW					R 449	K.2/8.4	R21			
220	2	P	2 0 G		M524/1	G9				
SW-TS-23B			U075	6BS		X X	355021			06153 02 4320
TEMP SW					R 448	M.0/8.3	R23			
220	2	P	2 0 G		M524/2	E10				
SW-TS-23C			U075	F3026BS		X X	355021			06153 02 4320
TEMP SW					R 441		R22			
220	2	P	2 0 G		M524/2	J10				
SW-TS-25			U075	6BS		X X	355021			06153 02 4320
TEMP SW					R 450	K.9/4.0	R22			
220	2	P	2 0 G		M524/1	D10				
SW-TS-29			U075	F3026BS		X X	355021			06153 02 4320
TEMP SW					R 549	M.8/8.0	R21			
215	2	P	2 0 G		M524/2	C11				
SW-TS-38A			U075	F-302		X X	341003			06153 02 4320
TEMP SW					R 548					
215	2	P	2 0 G		M524/1	G14				
SW-TS-38B			U075	F-302		A X	341003			06153 02 4320
TEMP SW					R 548					
215	2	P	2 0 G		M524/2	C13				
SW-V-201			M095	MV229MQ-L2		X J	324004			01014 16 Z 4320
0.5" SOLENOID LOOP A SMPLE TO SR13					R 558	M.6/4.3				
220	2	A	1 0 F		M607/2	C15				
SW-V-204			M095	MV229MQ-L2		X J	324004			01014 16 Z 4320
0.5" SOLENOID TSW INLET TO SR-13					R 558	M.6/4.3				
220	2	A	1 0 F		M607/2	C15				
SW-V-206			M095	MV229MQ-L2		X X	324004			01014 06 Z 4320
0.5" SOLENOID LP.B SMPLE TO SR-14					R 558	M.6/5.0				
220	2	A	1 0 F		M607/2	B15				
SW-V-209			M095	MV229MQ-L2		X X	324004			01014 06 Z 4320
0.5" SOLENOID TSW INLET TO SR-14					R 565	M.6/5.0				
220	2	A	1 0 F		M607/2	B15				
SW-V-210			M095	MV229MQ-L2		X T	324004	N		01014 00 Z 4320
0.5" SOLENOID TSW RTN FRM SR14					R 558	M.6/5.0	R63			
220	2	A	1 0 F		M607/2	A11				

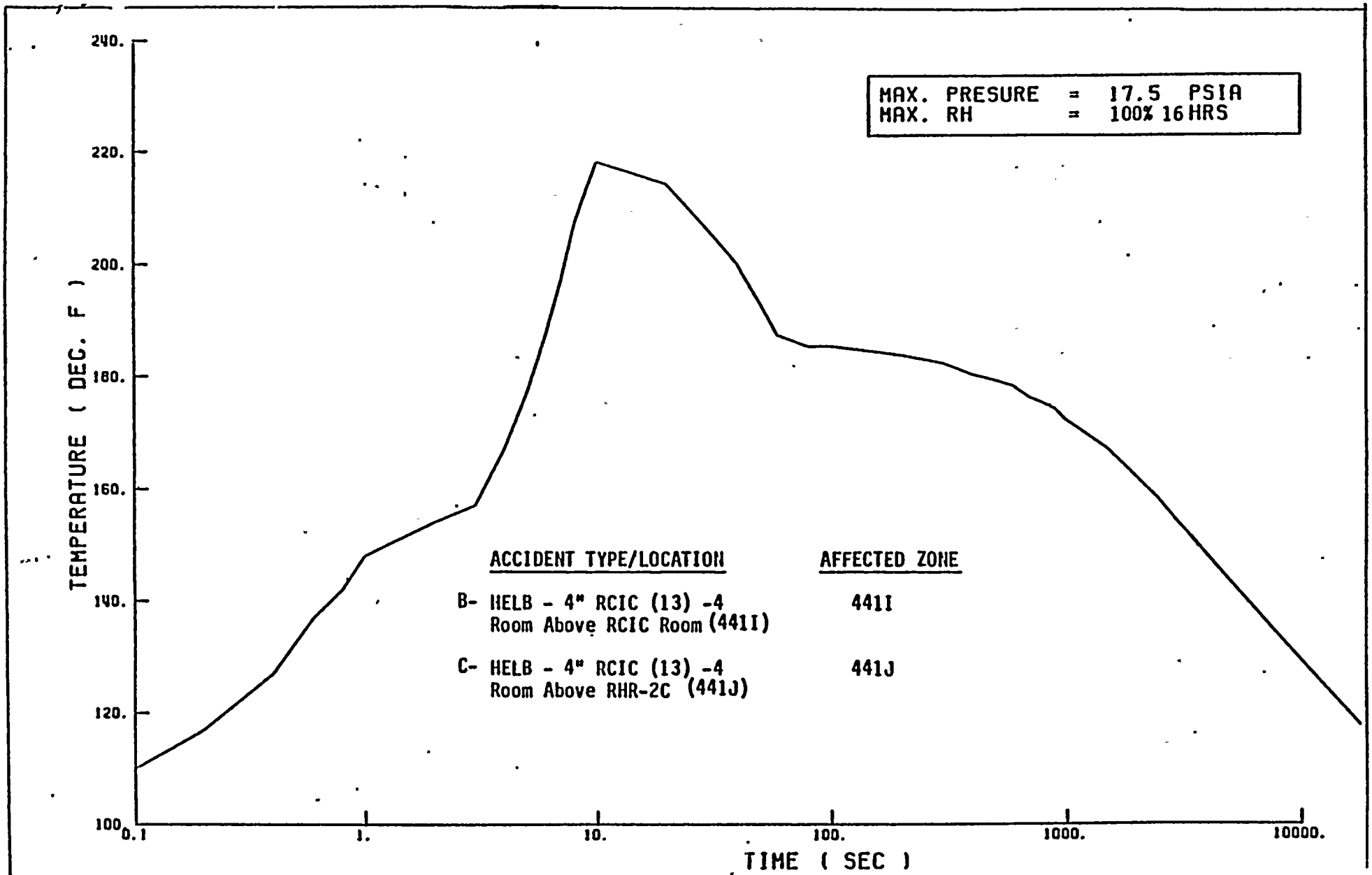
EPN / DESCRIPTION / CONTRACT LEVEL EC USE SAFETY FUNCTION	MFG / MODEL	BLDG ELEV A/E DRAWING A/E ZONE	STATUS S E DETAIL	QID ZONE	***SEISMIC (S) PARAMETERS*** TM HL TEST ROOM	ANL FO C ACCURACY	FREQ	*ENV. (E) PARAMETERS* AGING COMPOSITE EPN	DBE	C	HOURS
SW-V-211 0.5" SOLENOID SR-14 DISCHARGE 220 2 A 1 0 F	M095 MV229HS-L2	R 565 M.6/5.0 M607/2	X T B11	324004				01014	01	Z	4320
SW-V-212 0.5" SOLENOID TSW RTN FRM SR13 220 2 A 1 0 F	M095 MV229HQ-L2	R 558 M.6/4.3 M607/2	Y J A13	324004 R63	W	N		01014	10	Z	4320
SW-V-213 0.5" SOLENOID SW-A- RTN FROM SR13 220 2 A 1 0 F	M095 MV229HS-L2	R 558 M.6/4.3 M607/2	X J B13	324004 R63				01014	10	Z	4320
SW-V-34 SOL. OPERATE V-34 RCIC PHP RM RTN 215 2 A 1 1 L	M095 MV252-1	R 452 M.7/8.0 M524/2	X T C11	361009 R21				01014	00	Z	24
SW-V-840 3/4" SOL LOOP A SW SYS BOUNDARY 220 2 A 1 0 E	V030 V526-5683	R 479 L.9/9.2 M524/1	Z X C3	361014				05313	11	E	4320
SW-V-842 3/4" SOL LOOP B SW SYS BOUNDARY 220 2 A 1 0 E	V030 V526-5683	R 479 L.9/9.2 M524/1	Z X C3	361014				05313	11	E	4320
SW-V-844 3/4" SOL LOOP A SW SYS BOUNDARY 220 2 A 1 0 E	V030 V526-5683	R 479 L.9/9.2 M524/1	Z X C3	361014				05313	11	E	4320
SW-V-846 3/4" SOL LOOP B SW SYS BOUNDARY 220 2 A 1 0 E	V030 V526-5683	R 479 L.9/9.2 M524/1	Z X C3	361014				05313	11	E	4320
TIP-SV-1 TIP BALL ISO VLV 1 2 A 1 0 B1	C560 73110-2	R 504 J.3/4.8	X R	324008				06153 TIP-SV-1+	04	E	.17
TIP-SV-2 TIP BALL ISO VLV 2 2 A 1 0 B1	C560 73110-2	R 504 J.3/4.8	X R	324008				06153 TIP-SV-2+	04	E	.17
TIP-SV-3 TIP BALL ISO VLV 3 2 A 1 0 B1	C560 73110-2	R 504 J.5/4.5	X R	324008				06153 TIP-SV-3+	04	E	.17
TIP-SV-4 TIP BALL ISO VLV 4 2 A 1 0 B1	C560 73110-2	R 501 J.6/4.6	X R	324008				06153 TIP-SV-4+	04	E	.17
TIP-SV-5 TIP BALL ISO VLV 5 2 A 1 0 B1	C560 73110-2	R 501 J.5/4.6	X R	324008				06153 TIP-SV-5+	04	E	.17

EPN / DESCRIPTION / CONTRACT	LEVEL	EC	USE	SAFETY FUNCTION	MFG / MODEL / BLDG DRAWING	ELEV / A/E ZONE	STATUS S E / DETAIL	QID / ZONE	TH / ROOM	SEISMIC (S) PARAMETERS HL TEST ANL FO C / ACCURACY	FREQ	ENV. (E) PARAMETERS AGING / COMPOSITE EPN	DBE	C	HOURS
TIP-SV-6					T268 S90A380E	R 504	R	324008				06153	05	E	.17
TIP AIR SUPPLY ISO VLV							J.0/4.0								
02	2	A	1 0	B1											
TIP-V-1					G080 P P136B1302G002	R 501	X J	324008				06153	10	E	4320
TIP EXPLOSIVE ACT ISOL SHEAR VLV							J.0/4.5				R42				
02C51	2	A	1 0	B1		807E165TC/	2J1								
TIP-V-2					G080 P P136B1302G002	R 501	X J	324008				06153	10	E	4320
TIP EXPLOSIVE ACT ISOL SHEAR VLV							J.0/4.5								
02C51	2	A	1 0	B1		807E165TC/	2J1								
TIP-V-3					G080 P P136B1302G002	R 501	X J	324008				06153	15	E	4320
TIP EXPLOSIVE ACT ISOL SHEAR VLV							J.0/4.5								
02C51	2	A	1 0	B1		807E165TC/	2J1								
TIP-V-4					G080 P P136B1302G002	R 501	X J	324008				06153	15	E	4320
TIP EXPLOSIVE ACT ISOL SHEAR VLV							J.0/4.5								
02C51	2	A	1 0	B1		807E165TC/	2J1								
TIP-V-5					G080 P P136B1302G002	R 501	X J	324008				06153	10	E	4320
TIP EXPLOSIVE ACT ISOL SHEAR VLV							J.0/4.5								
02C51	2	A	1 0	B1		807E165TC/	2J1								

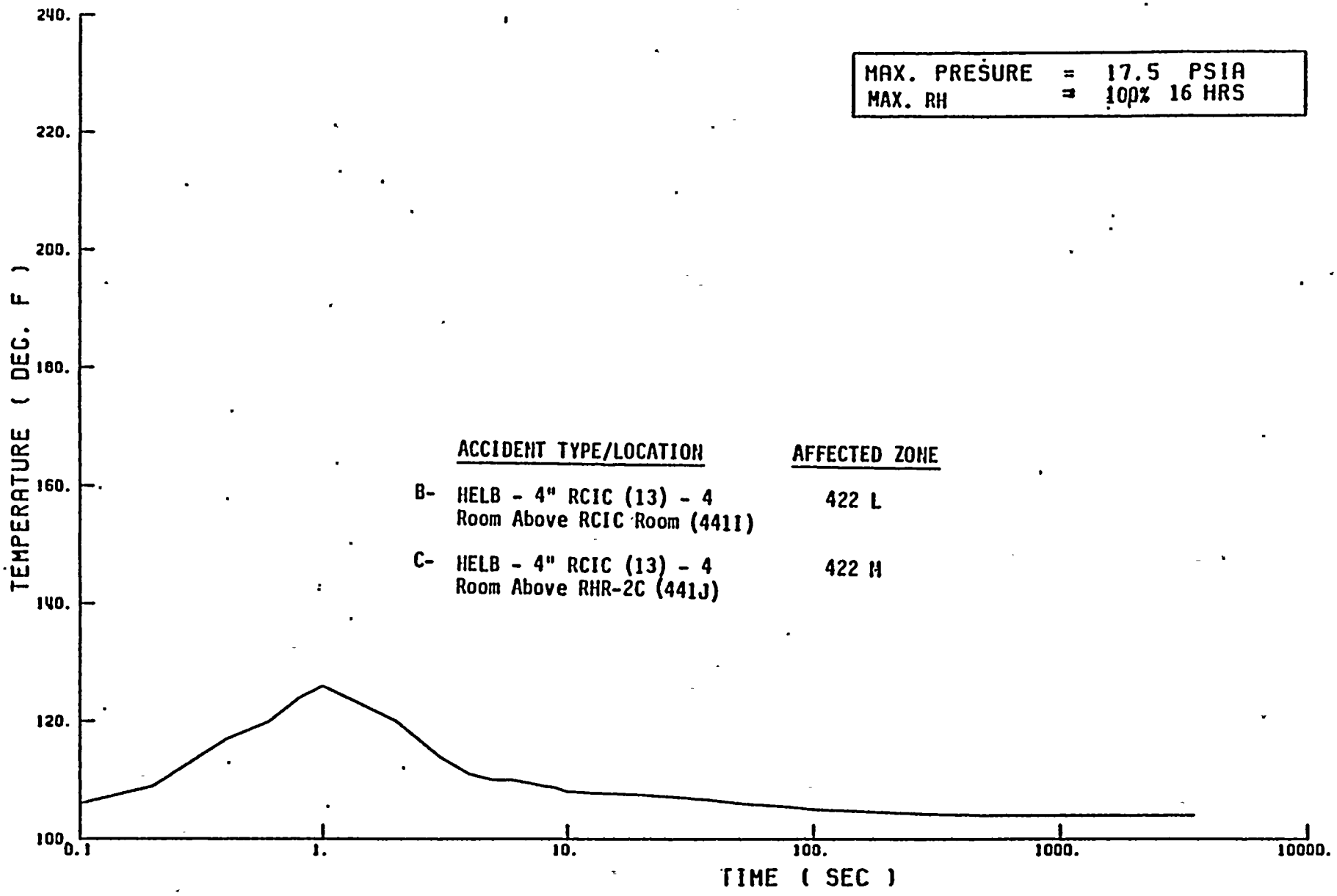
Appendix B contains the following information:

- o Normal and Abnormal Service Conditions: the normal and abnormal temperature, pressure and humidity for harsh environment areas. B.1
- o Primary Containment Service Conditions Due to a LOCA/HELB in Primary Containment. B.2
- o Reactor Building Service Conditions Due to a LOCA/HELB in Primary Containment: the temperature, pressure, humidity and radiation service conditions. B.3
- o Pressure/Temperature Profiles: the accident profiles due to a LOCA/HELB in containment and HELB's in the reactor building.* B.4
- o Radiation Zone Maps: the zone maps of the Reactor Building locating the Class 1E equipment and defining the 6-month accident plus 40-year normal radiation dose. B.34

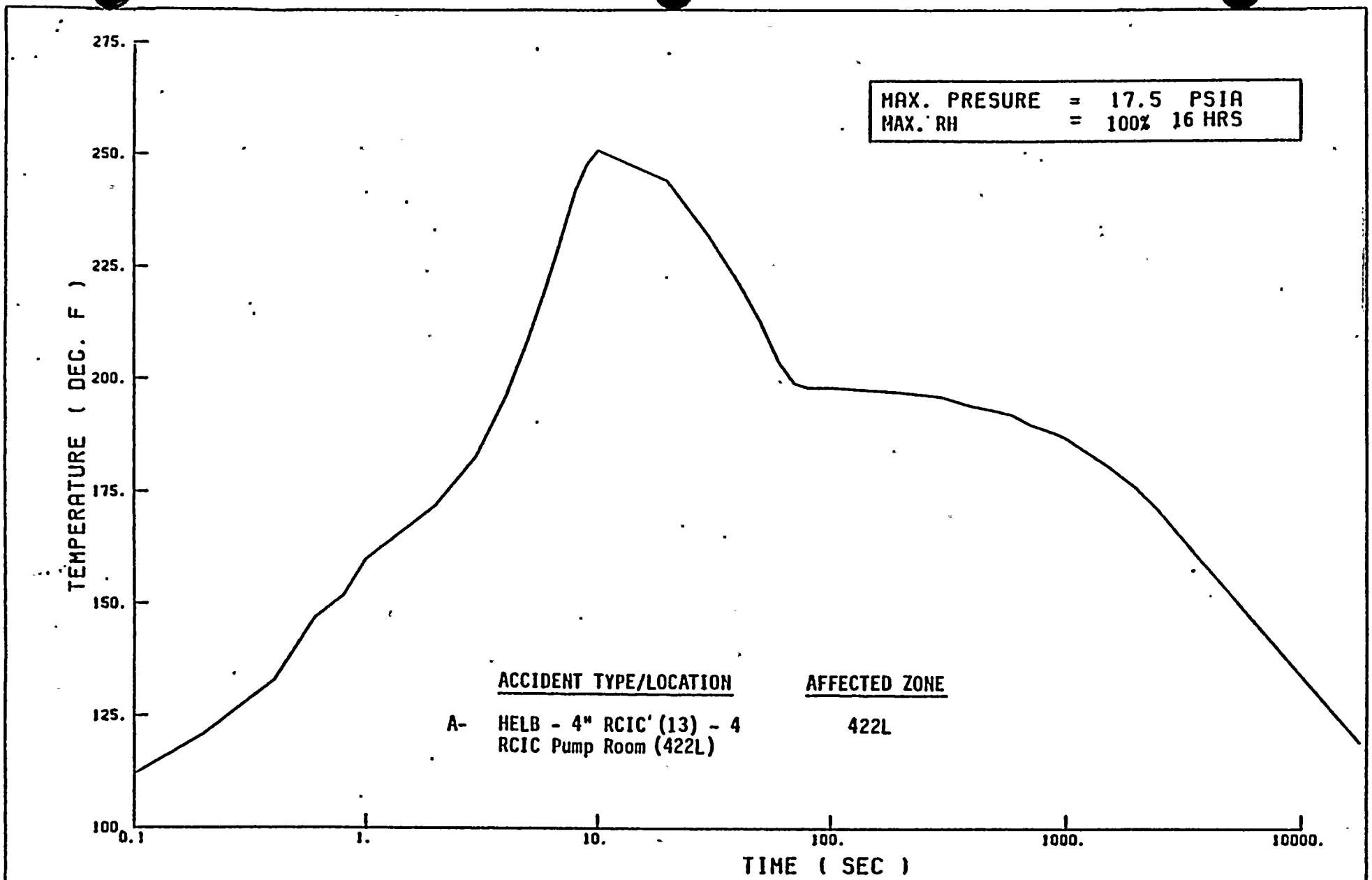
NOTE: The auxiliary steam line break profiles (Profiles 9-11, 31 and 32) have not been revised. A design modification has been initiated to install isolation valves. Justification for operation prior to completion of this change has been addressed in separate correspondence with the NRC. The modification will bring the final profiles below the above profiles.



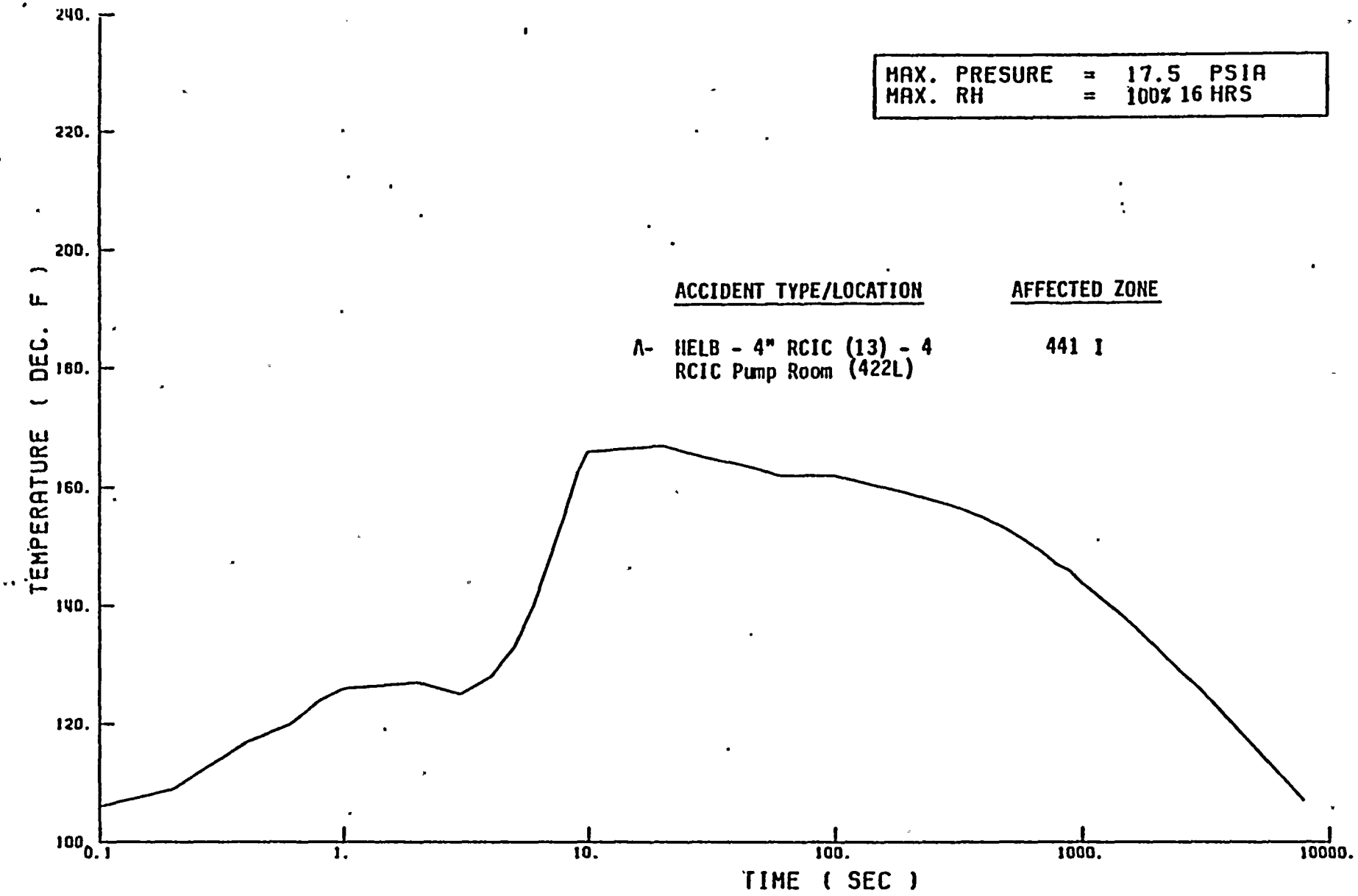
Profile 1X - 4" RCIC Line Break In Room Above RCIC (or RHR) Pump Room



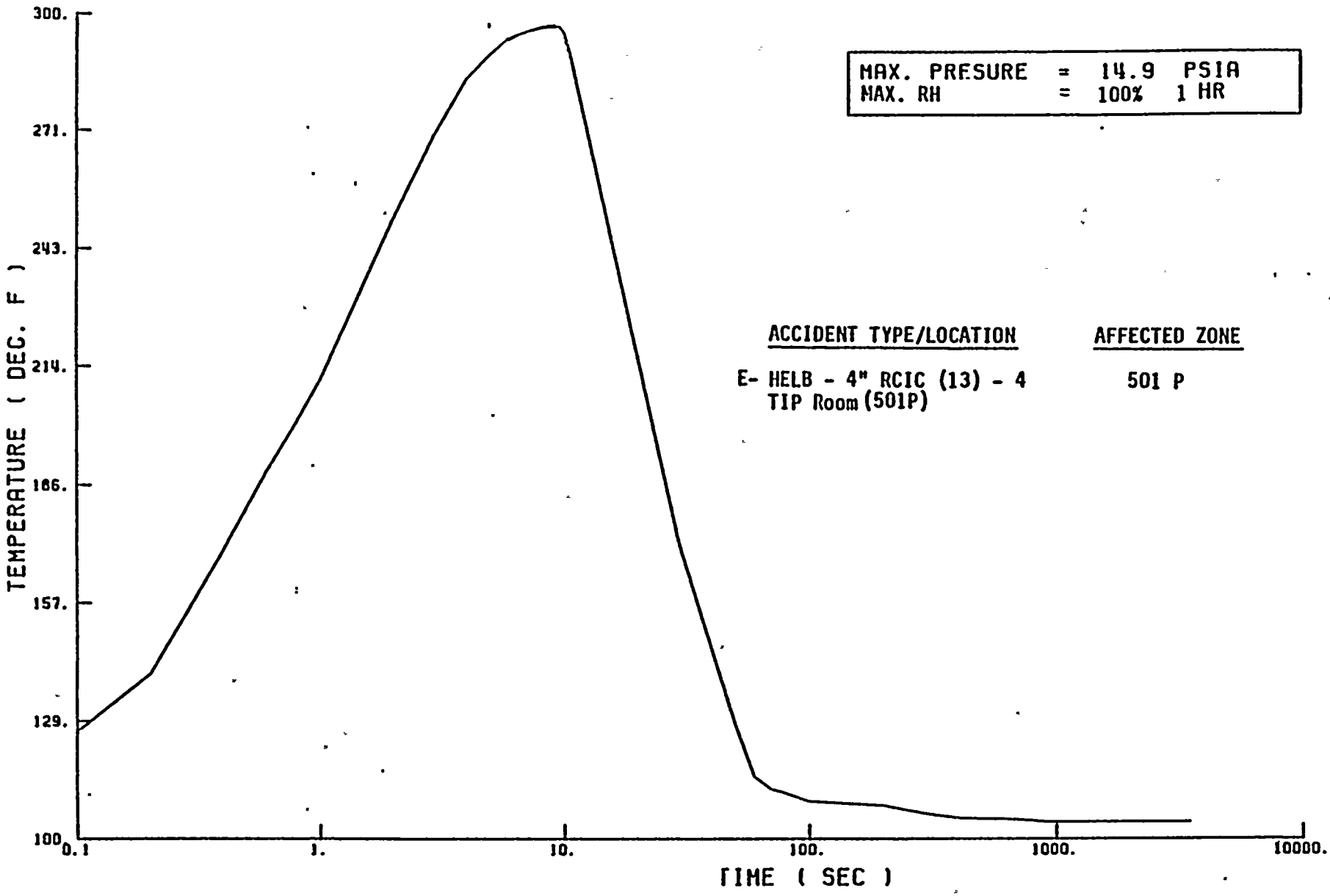
Profile 2X - 4" RCIC Line Break In Room Above RCIC (or RHR) Pump Room



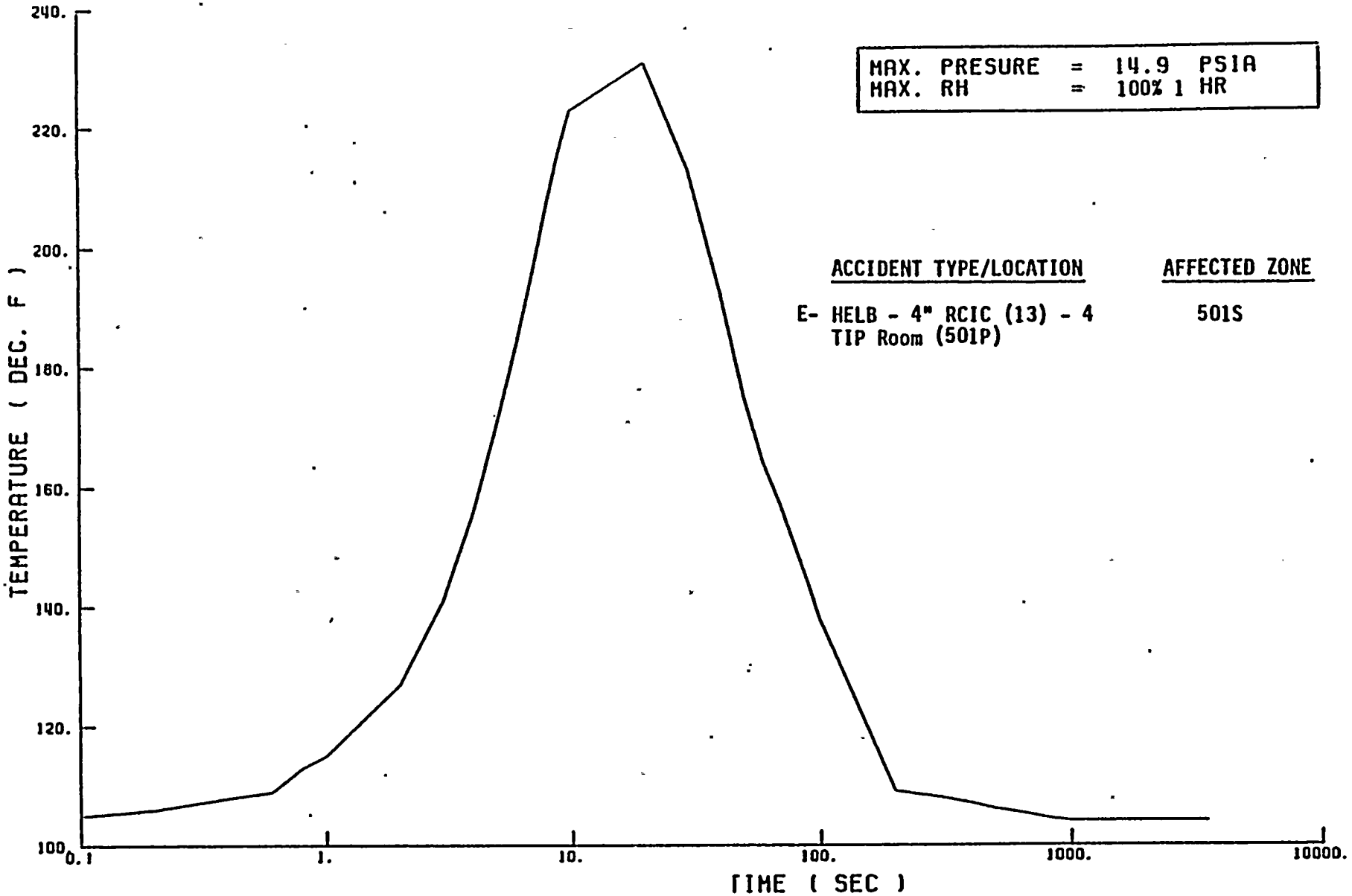
Profile 3X - 4" RCIC Line Break in RCIC Pump Room



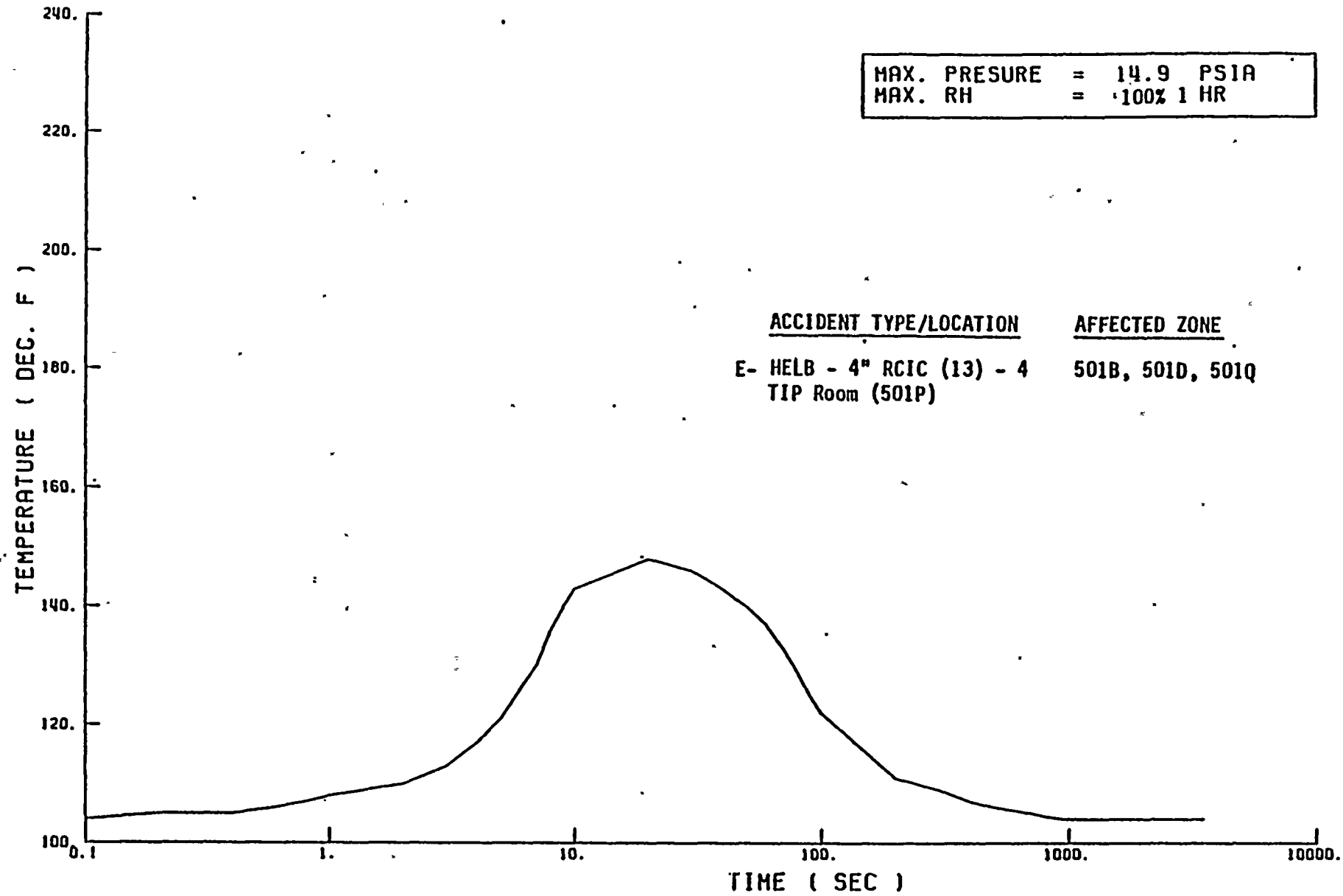
Profile 4X - 4" Line Break in RCIC Pump Room



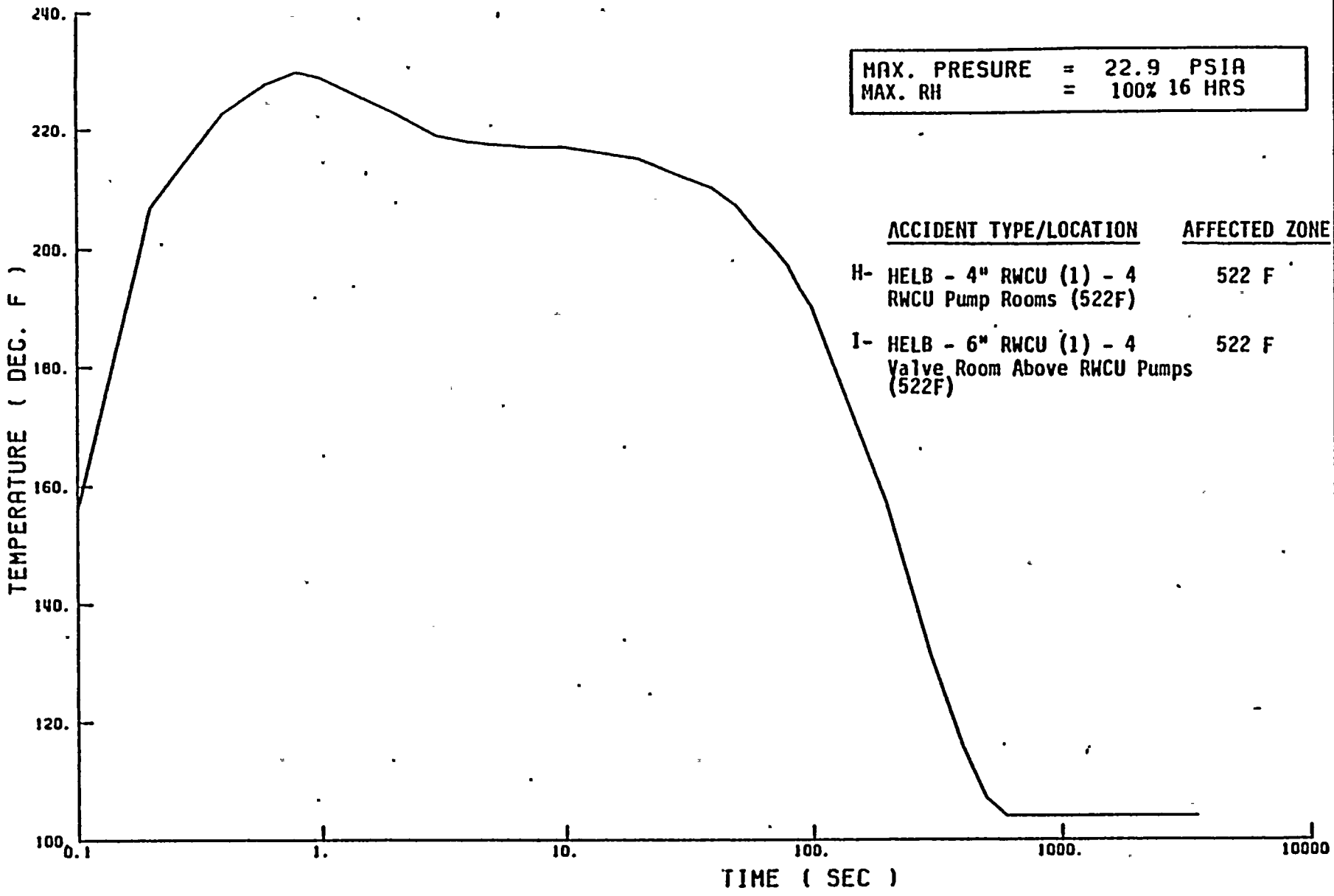
Profile 5X - 4" RCIC Line Break in TIP Room



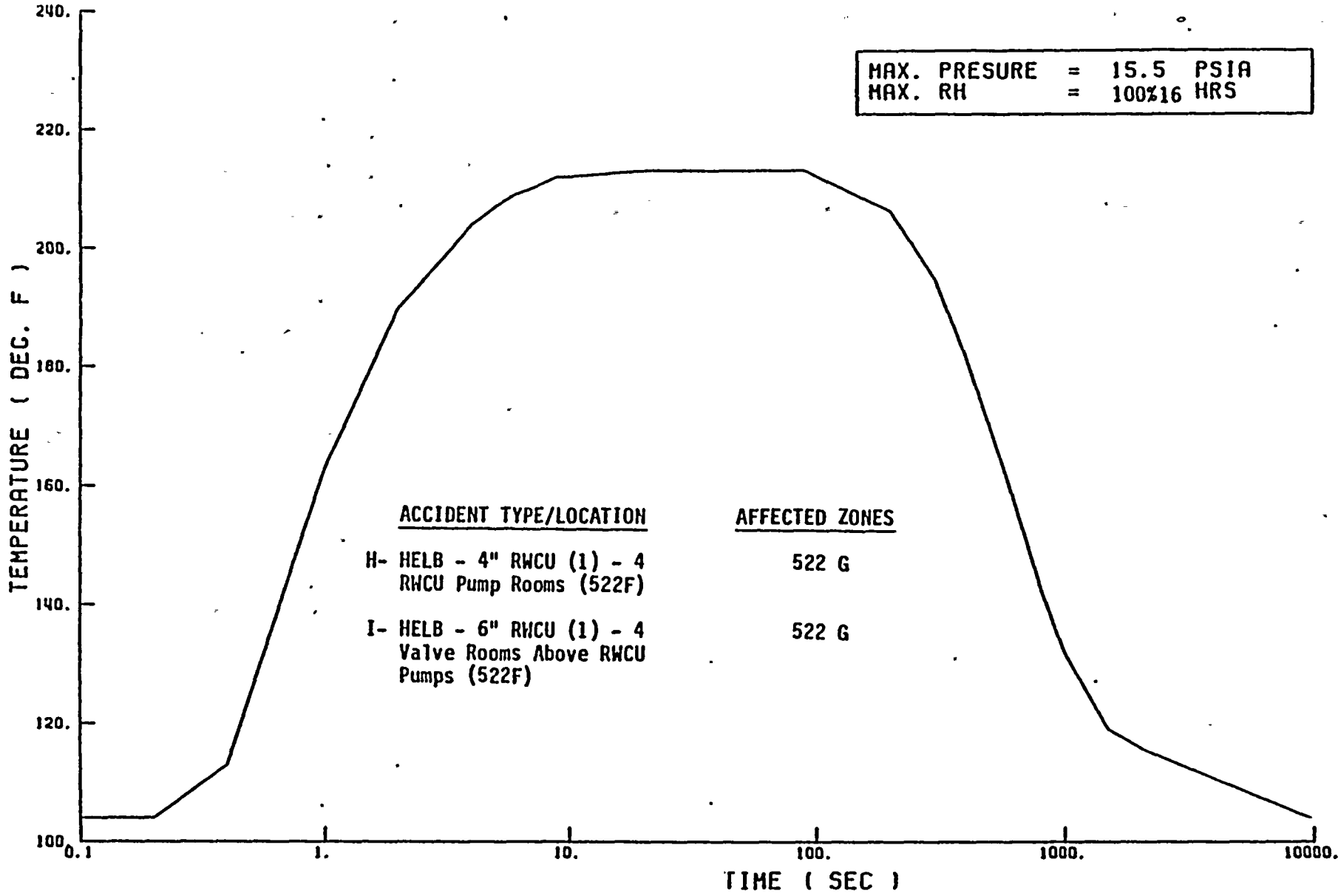
Profile 6X - 4" RCIC Line Break in TIP Room



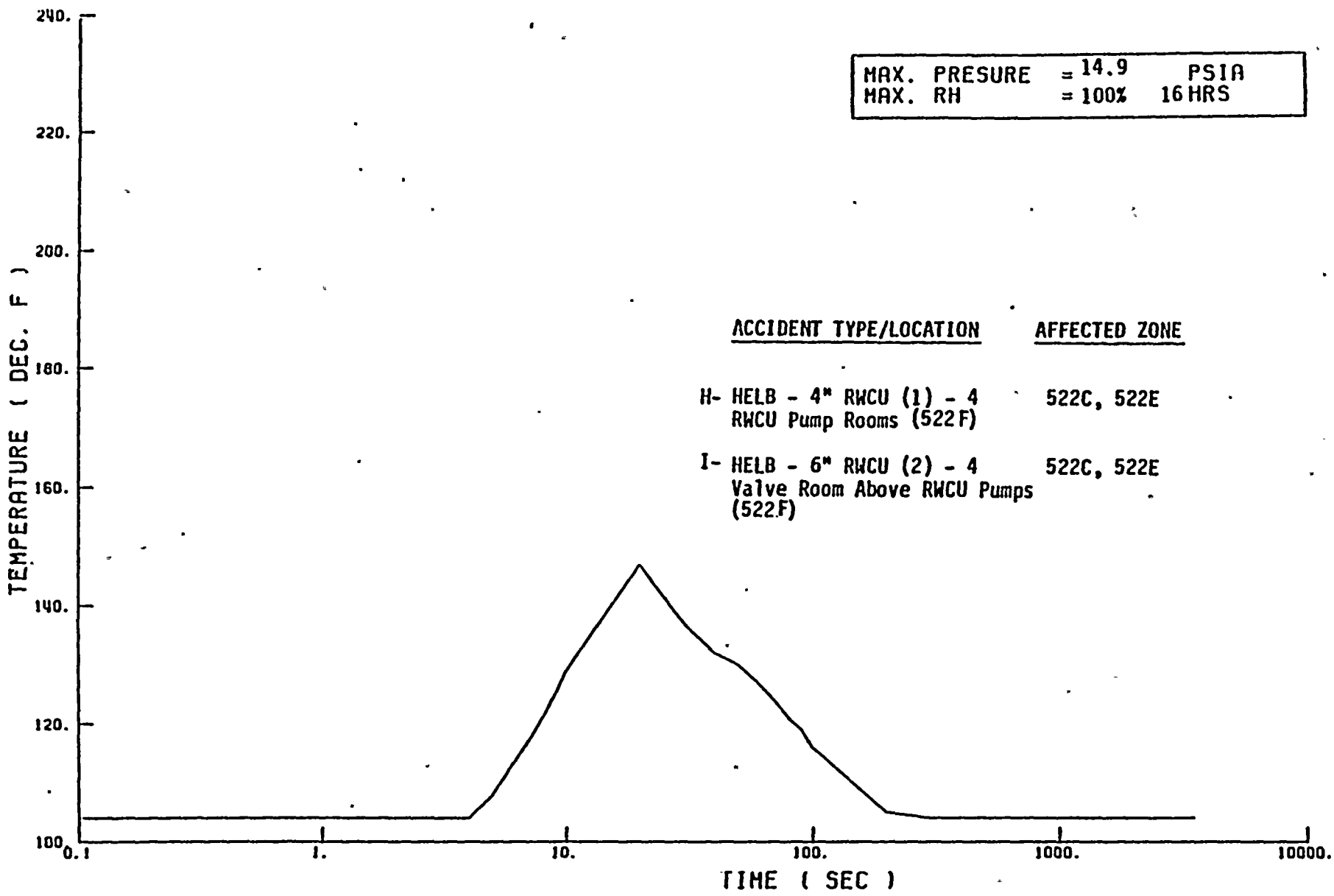
Profile 7X - 4" RCIC Line Break in TIP Room



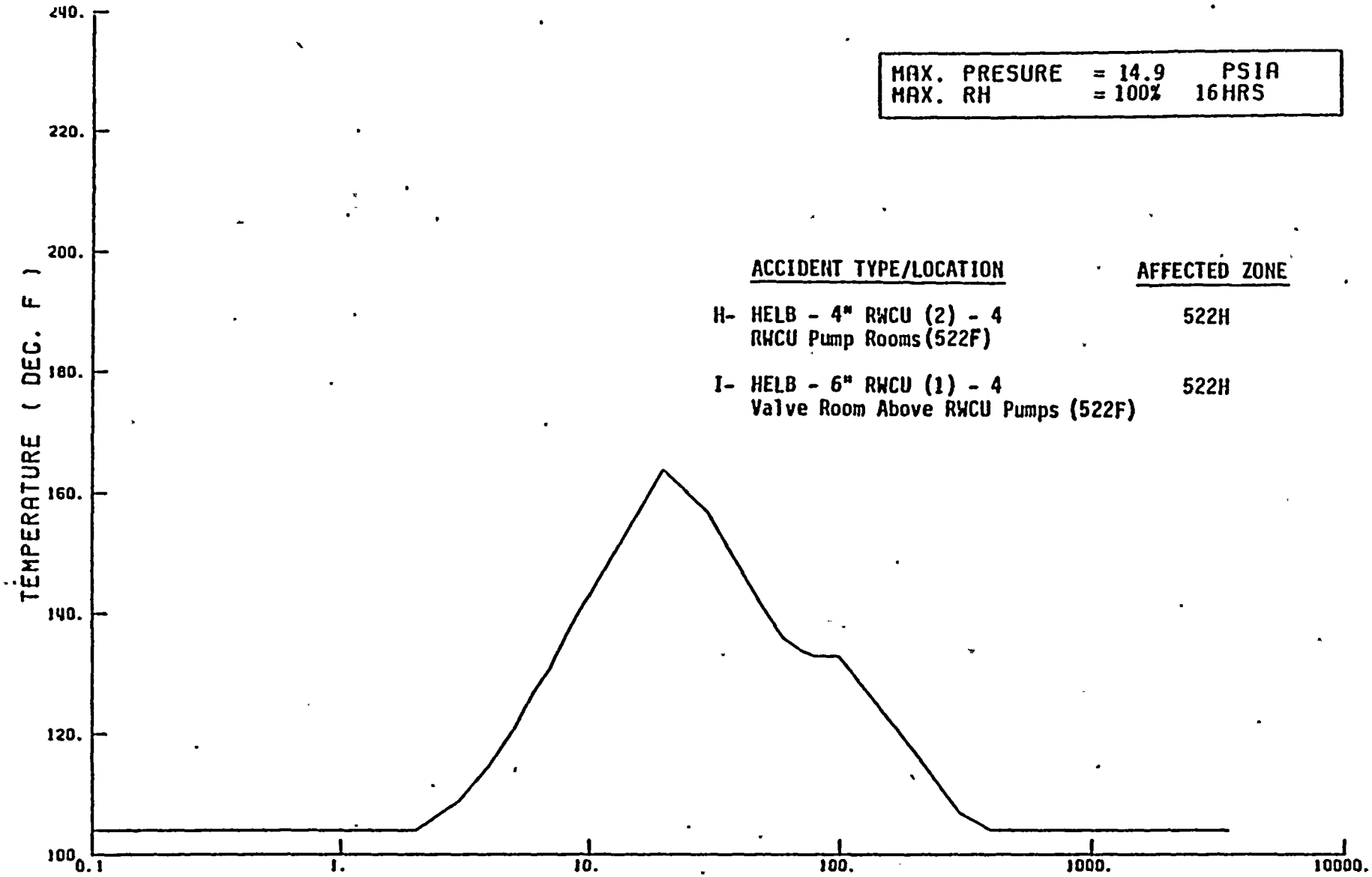
Profile 8X - RWCU Line Breaks in RWCU Pump Rooms or Valve Room Above RWCU Pump Rooms



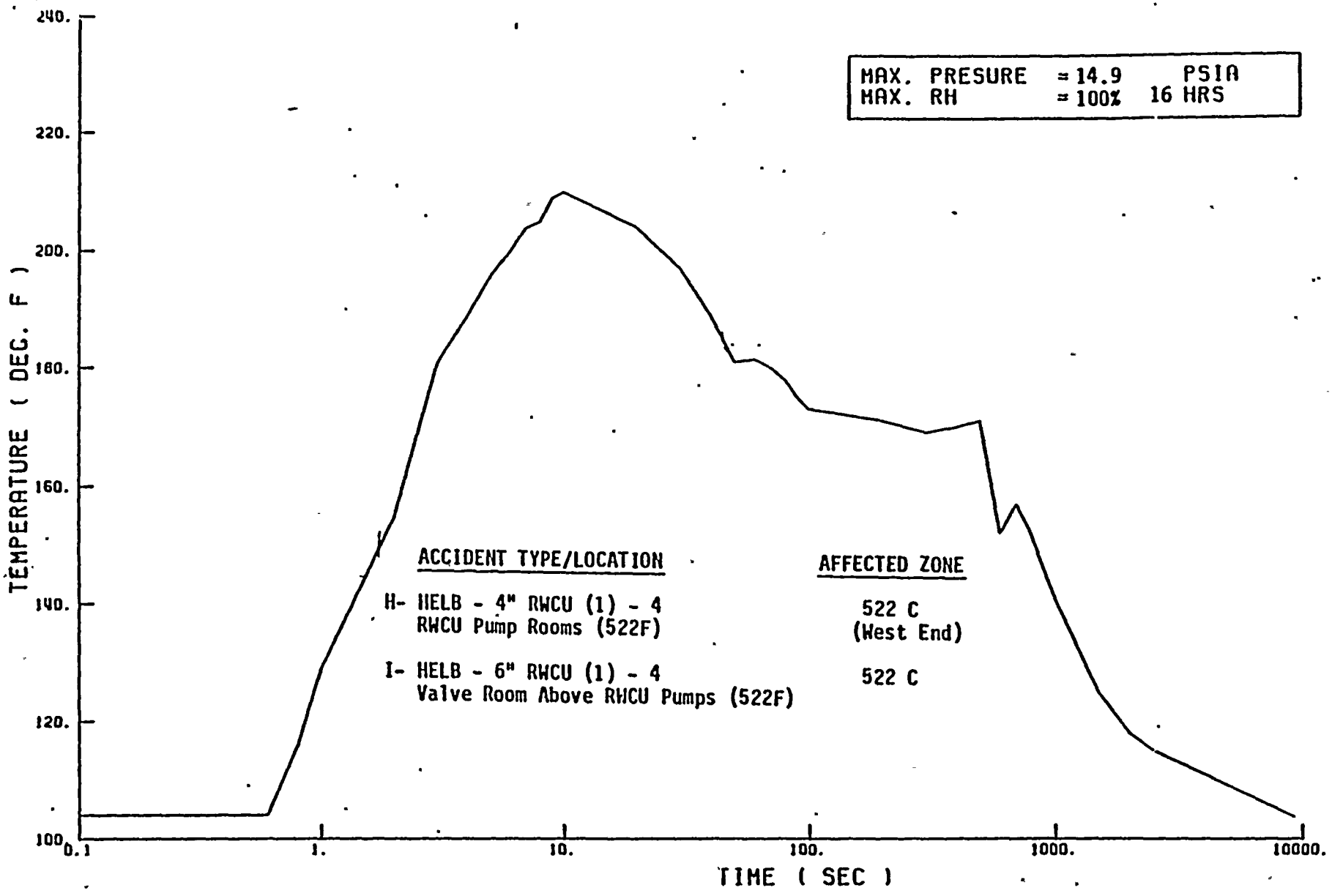
Profile 9X - RWCU Line Breaks in RWCU Pump Rooms or Valve Room Above RWCU Pump Rooms



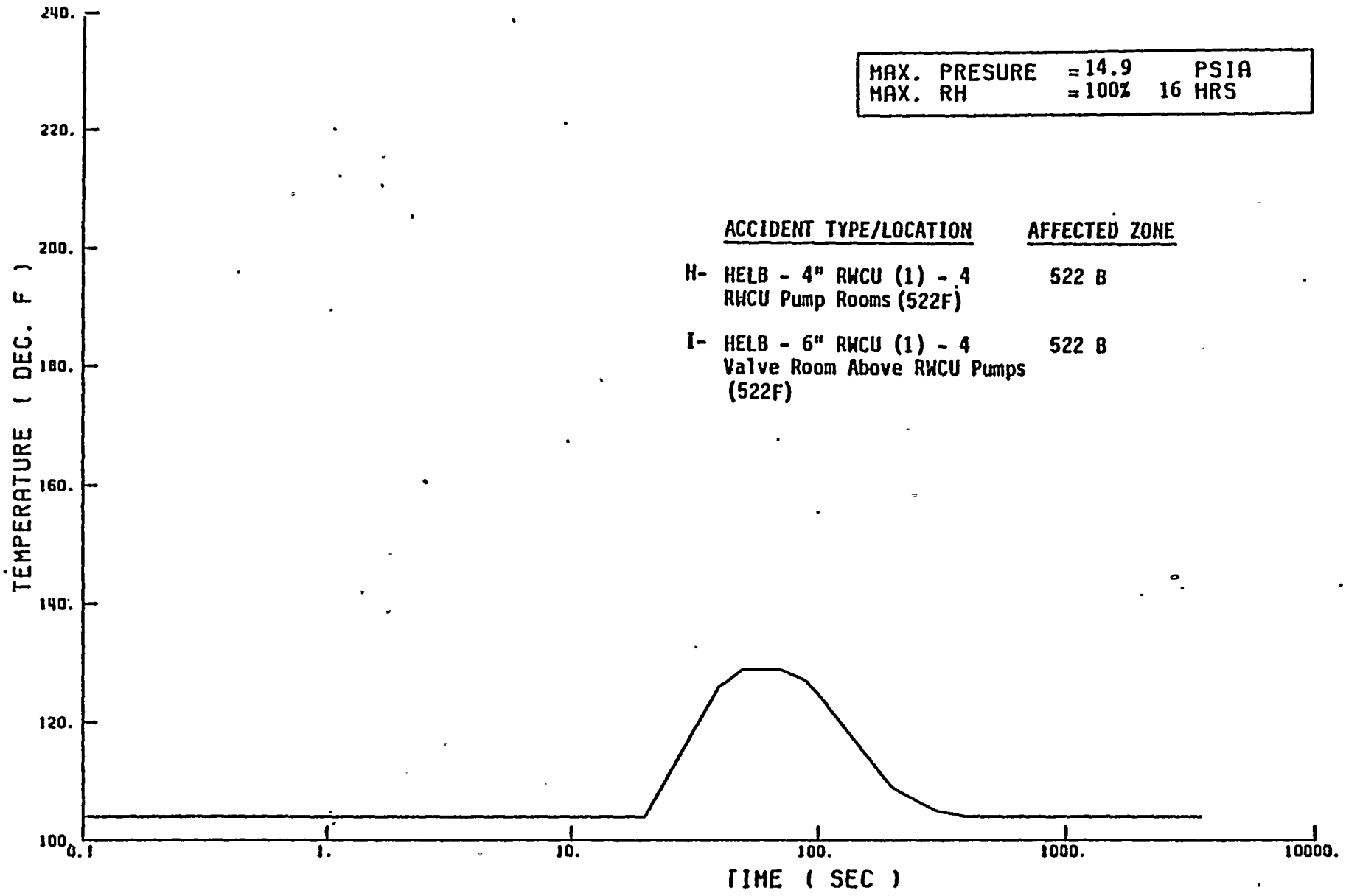
Profile 10X - RWCU Line Breaks in RWCU Pump Rooms or Valve Room Above RWCU Pump Rooms



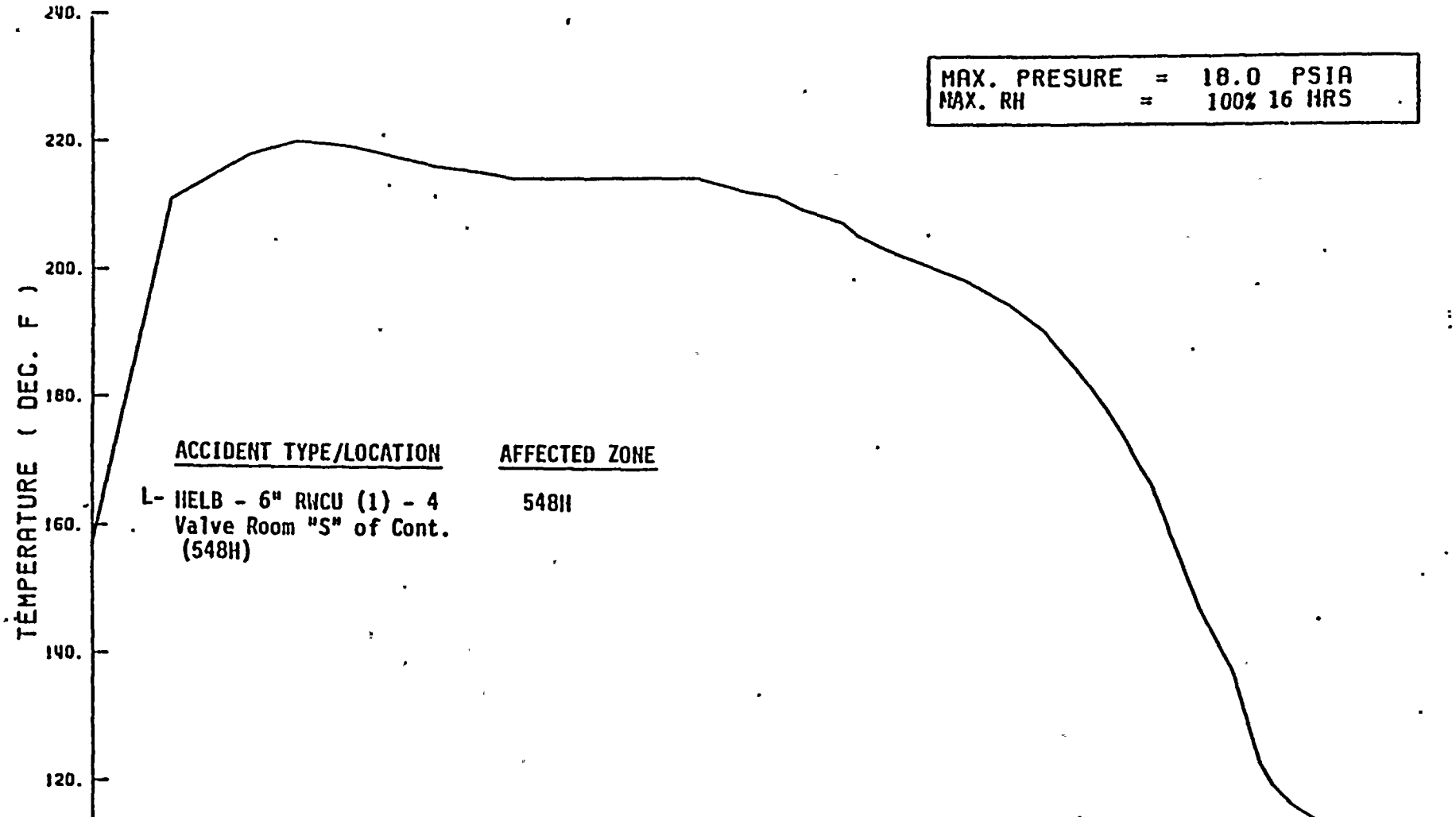
Profile 11X - RWCU Line Break in RWCU Pump Rooms or Valve Room Above RWCU Pump Rooms



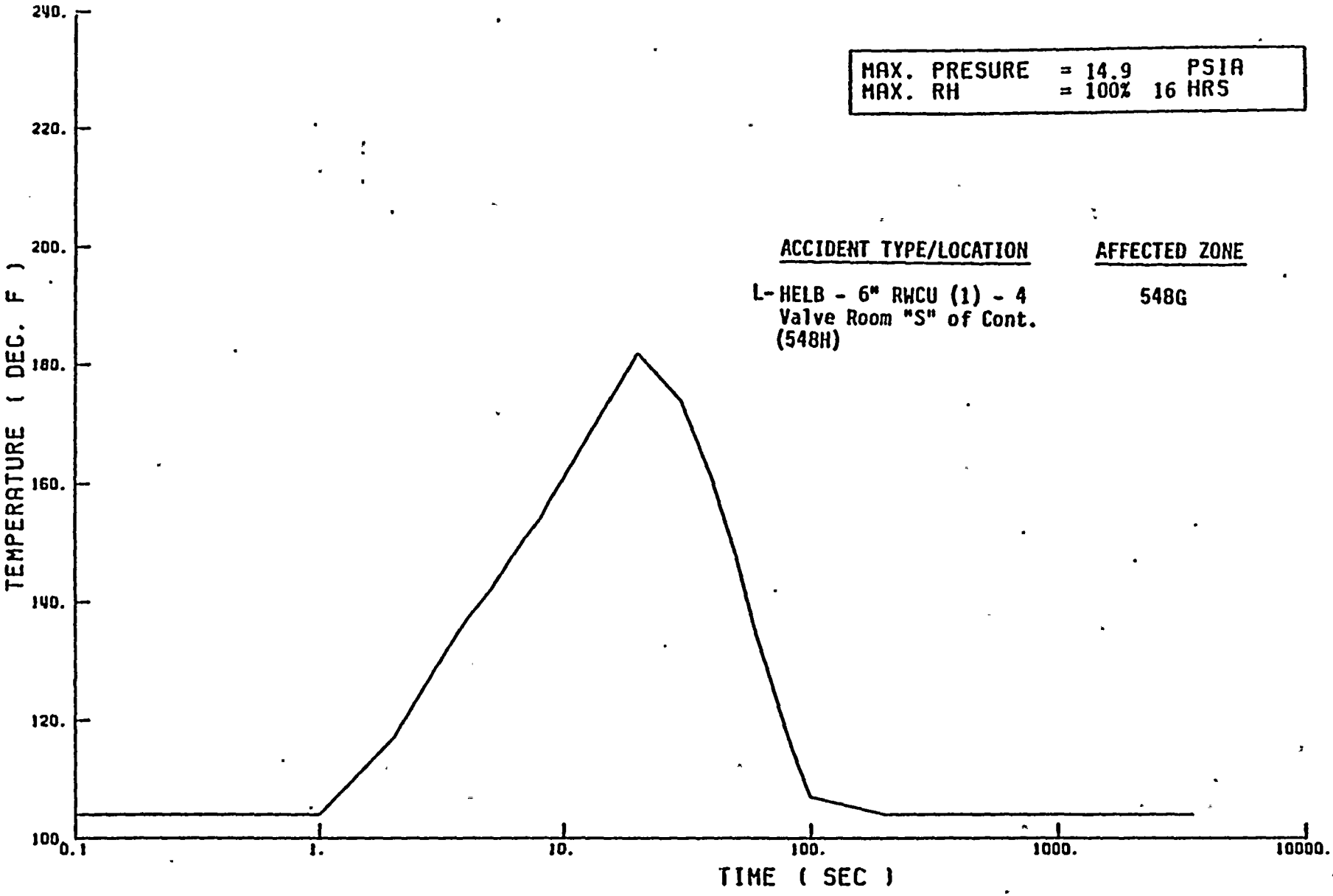
Profile 12X - RWCU Line Break in RWCU Pump Rooms or Valve Room Above RWCU Pump Rooms



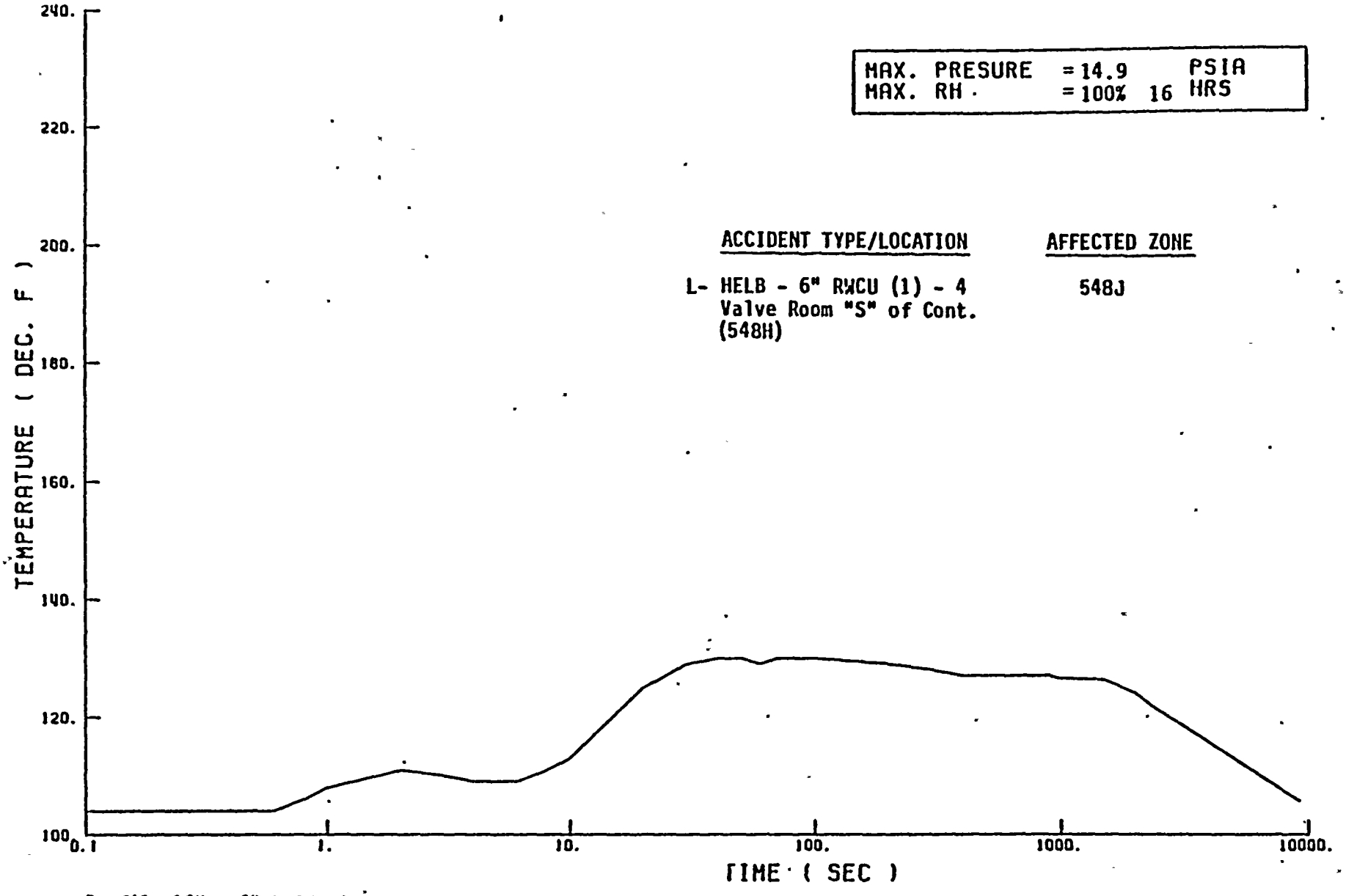
Profile 13X - RWCU Line Breaks in RWCU Pump Rooms or Valve Room Above RWCU Pump Rooms



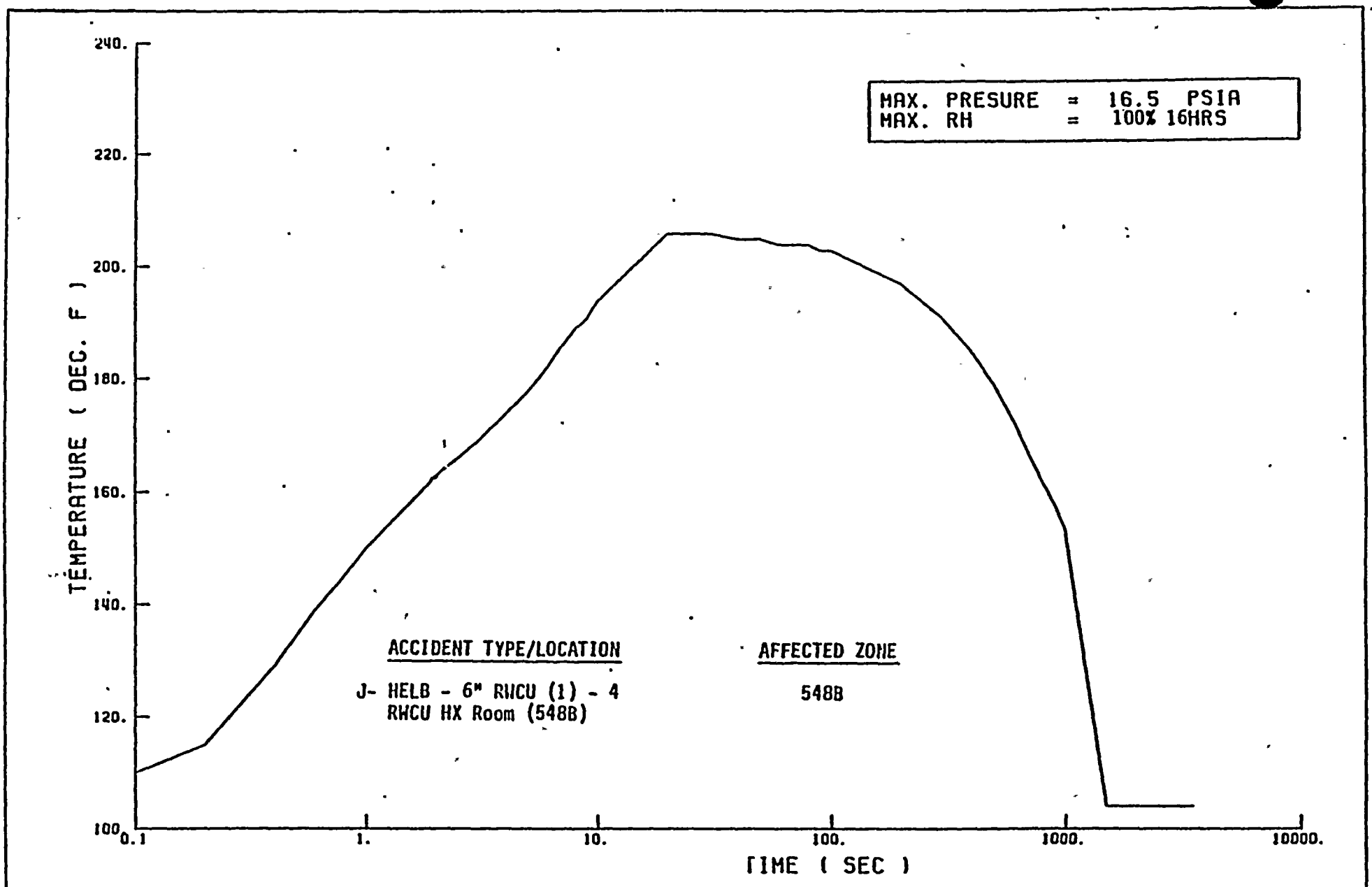
Profile 14X - 6" RWCU Line Break in Valve Room South of Containment



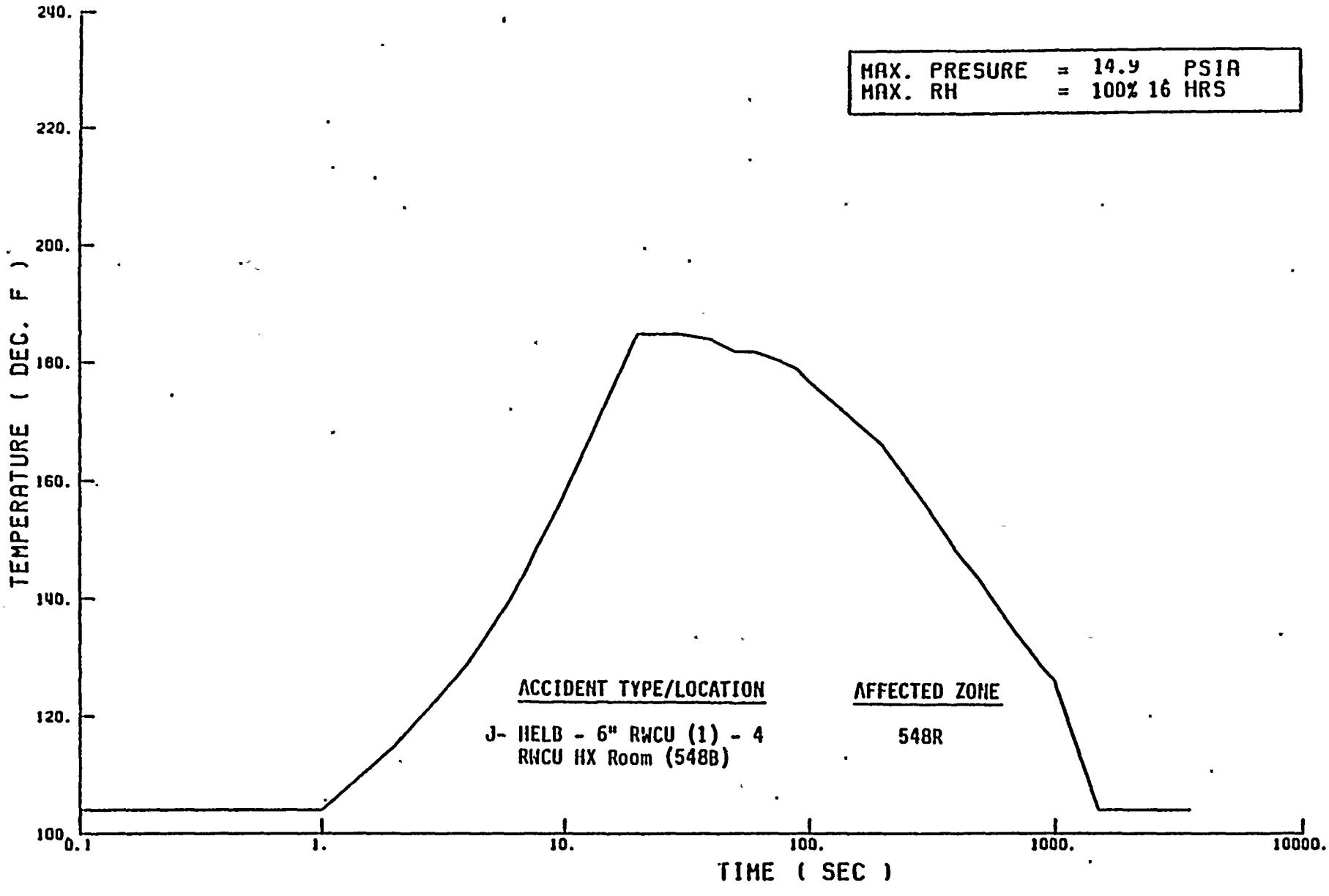
Profil 15X - 6" RWCU Line Break in Valve Room South of Containment



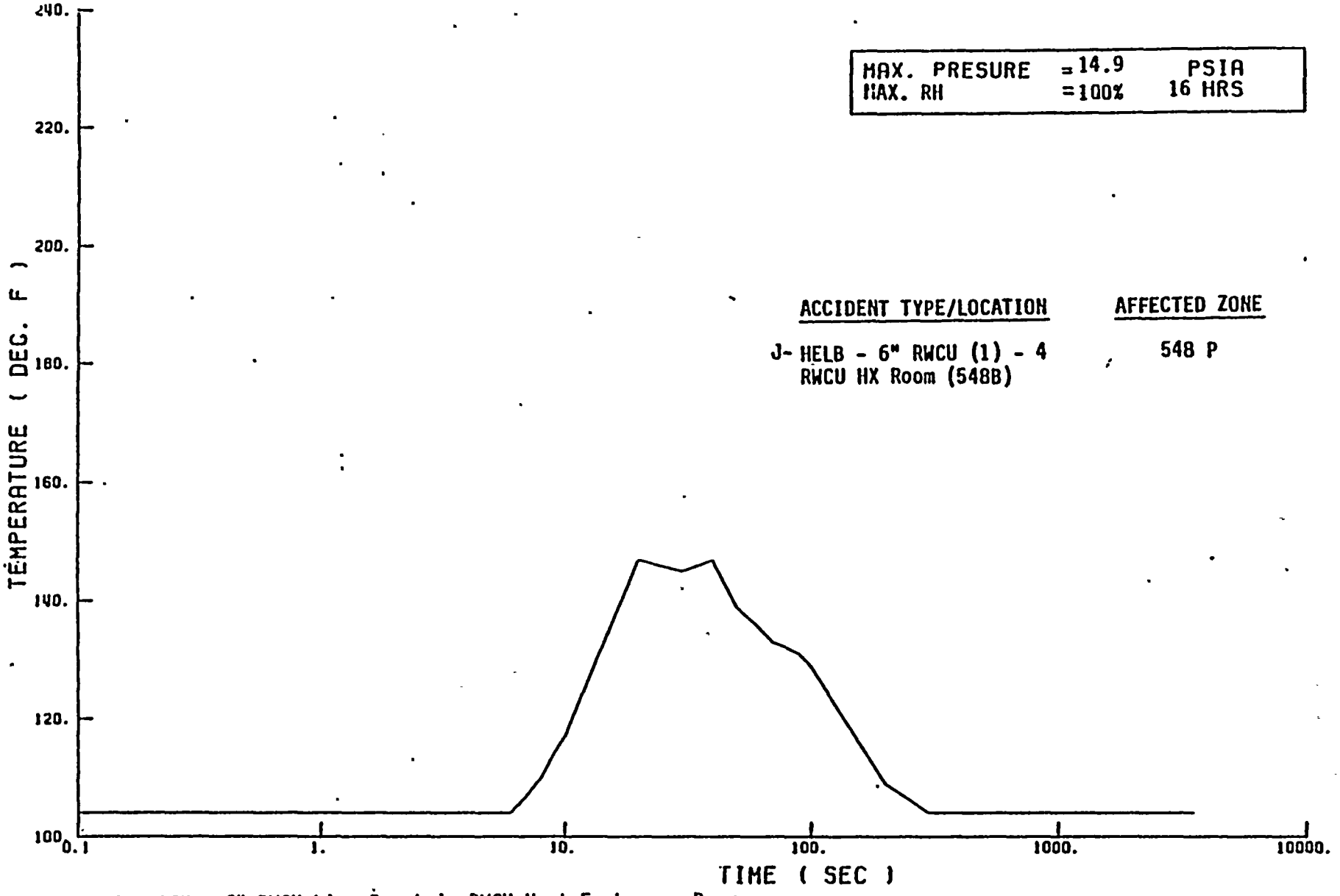
Profile 16X - 6" RWCU Line Break in Valve Room South of Containment



Profile 17X - 6" RWCU Line Break in RWCU Heat Exchanger Room

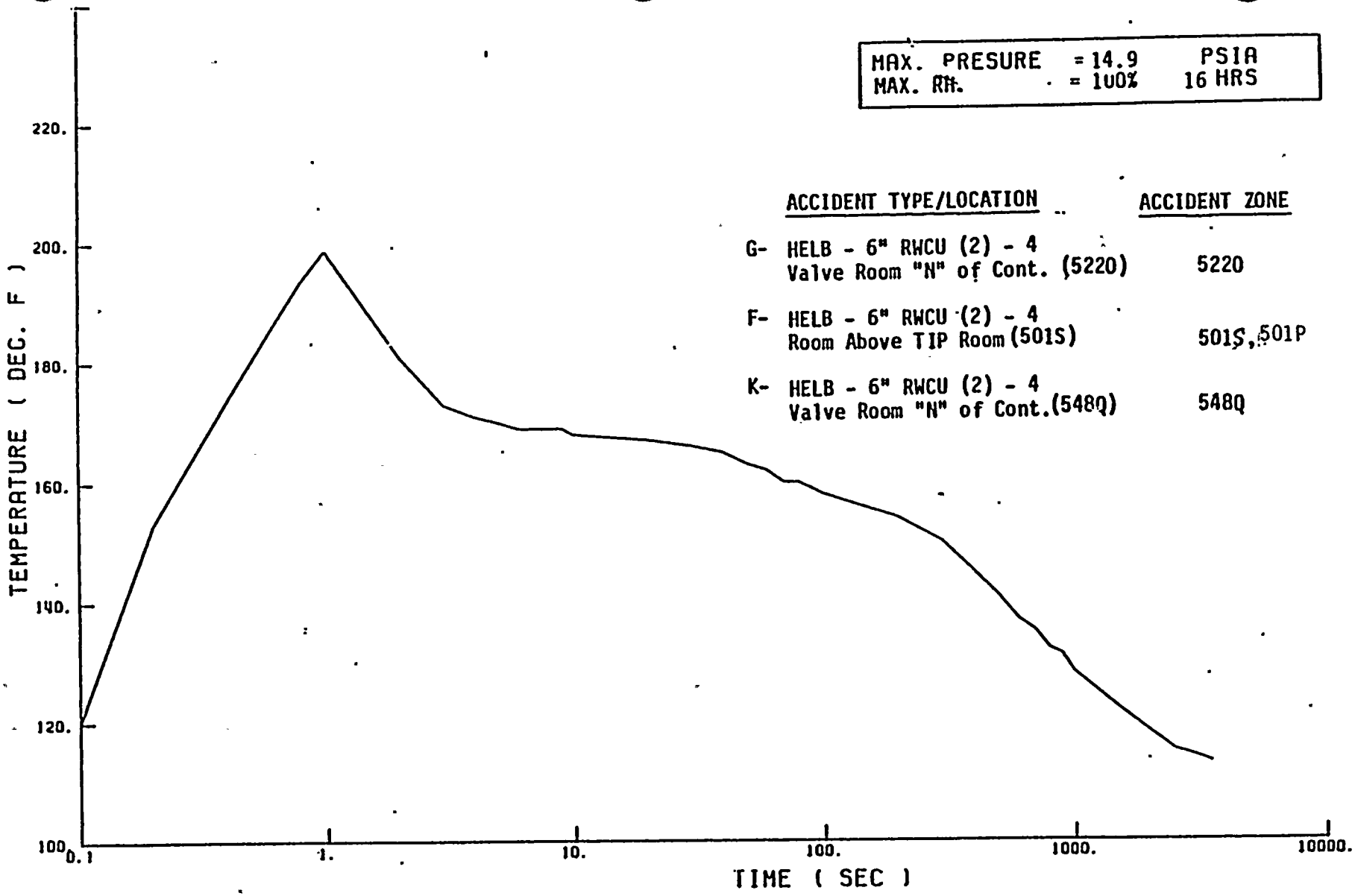


Profile 18X - 6" RWCU Line Break in RWCU Heat Exchanger Room



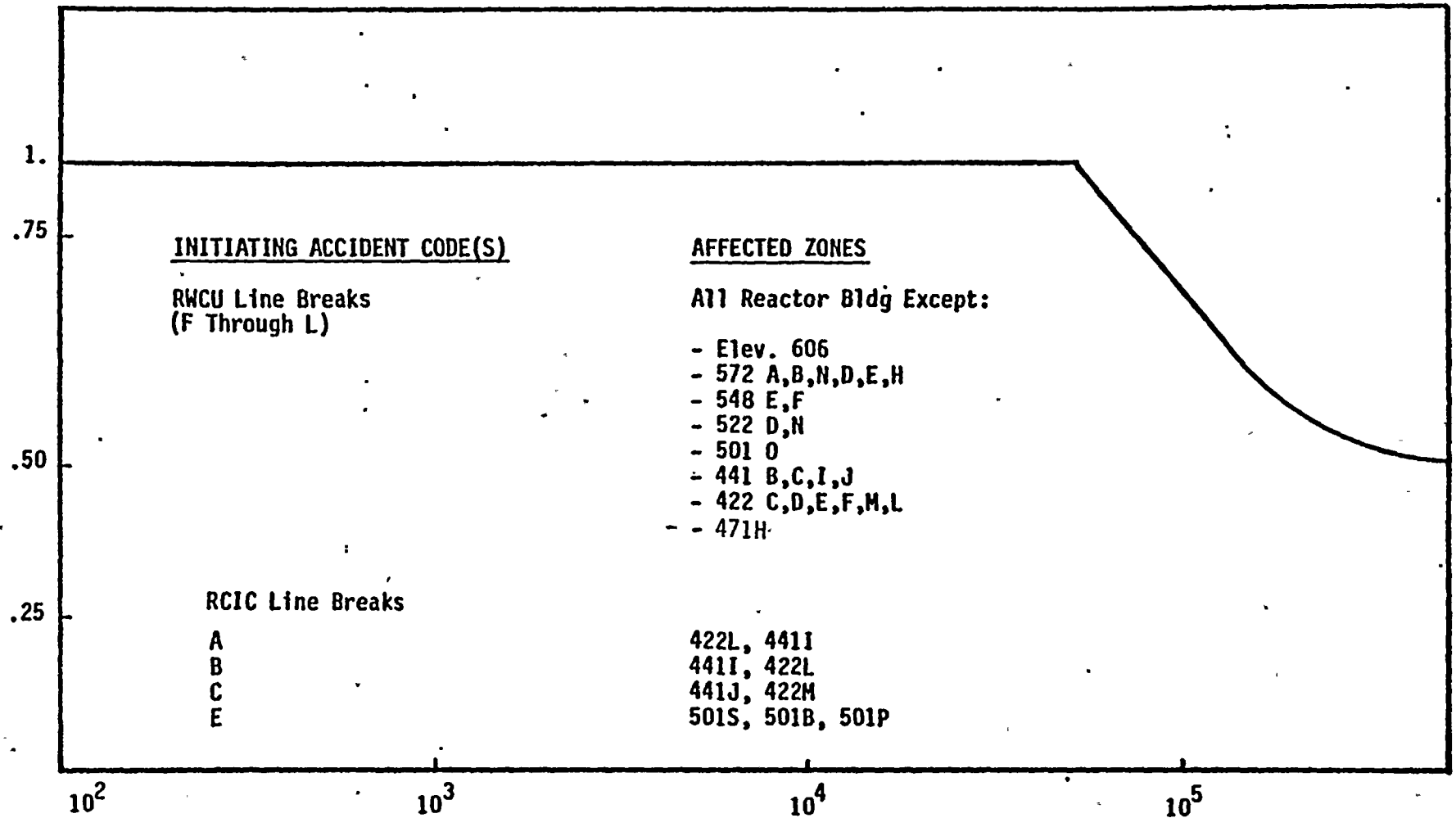
Profile 19X - 6" RWCU Line Break in RWCU Heat Exchanger Room

MAX. PRESURE	= 14.9	PSIA
MAX. RH.	= 100%	16 HRS

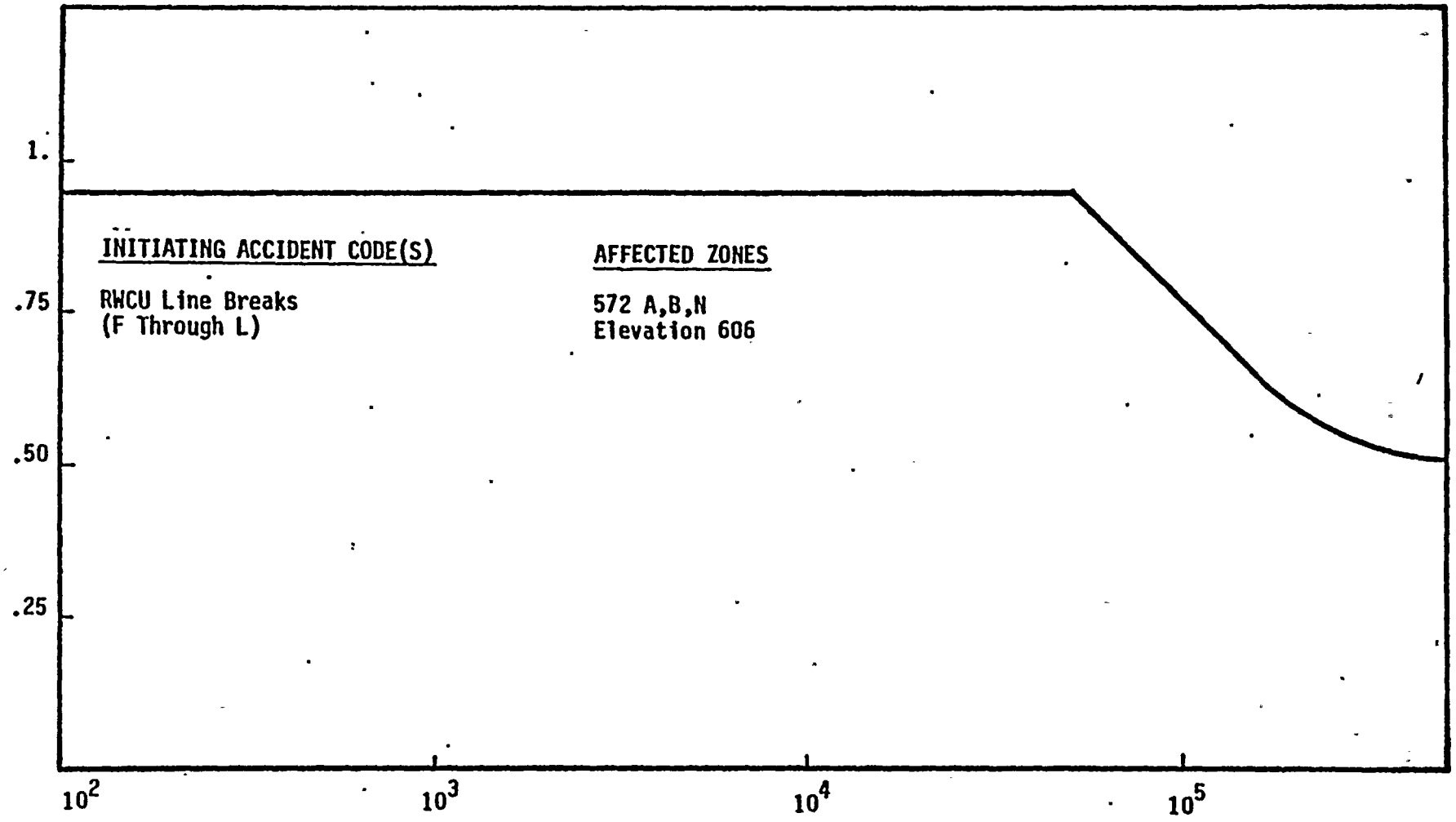


ACCIDENT TYPE/LOCATION	ACCIDENT ZONE
G- HELB - 6" RWCU (2) - 4 Valve Room "N" of Cont. (5220)	5220
F- HELB - 6" RWCU (2) - 4 Room Above TIP Room (501S)	501S, 501P
K- HELB - 6" RWCU (2) - 4 Valve Room "N" of Cont.(548Q)	548Q

Profile 20X - 6" RWCU Line Break in Valve Rooms North of Containment or in Room Above TIP Room



Profile 21X - Relative Humidity Profile for Zones which reach Saturated Conditions (Accident Code "X")



Profile 22X - Relative Humidity Profile for Zones which do not reach Saturated Conditions during RWCU Line Breaks (Accident Code "Y")