Enclosure 2

Seismic Walkdown Report In Response To The 50.54(f) Information Request Regarding Fukushima Near-Term Task Force Recommendation 2.3: Seismic for the Peach Bottom Atomic Power Station, Unit 3, Report Number: MPR-3812, Revision 3

(684 pages)

SEISMIC WALKDOWN REPORT

IN RESPONSE TO THE 50.54(f) INFORMATION REQUEST REGARDING FUKUSHIMA NEAR-TERM TASK FORCE RECOMMENDATION 2.3: SEISMIC

for the

PEACH BOTTOM ATOMIC POWER STATION UNIT 3
1848 Lay Road, Delta, PA 17314
Facility Operating License No. DPR-56
NRC Docket No. STN 50-278
Correspondence No.: RS-12-173

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NTTF 2.3 Seismic Walkdown of Peach Bottom Atomic Power Station Unit 3

MPR-3812
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QUALITY ASSURANCE DOCUMENT
This document has been prepared, reviewed, and approved in accordance with the Quality Assurance requirements of 10CFR50 Appendix B and/or ASME NQA-1, as specified in the MPR Nuclear Quality Assurance Program.

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RECORD OF REVISIONS

Revision	Affected Pages	Description
0	All	Initial Issue
1	All	Minor editorial changes were made throughout the report. The formatting and text of Tables 5-2, 5-3, 7-2, and E-2 were changed. Some photos were removed from Appendix C due to security concerns.
2	All	Incorporated station's TVT comments.
3	All	Deleted citation for Unit 2 work order in Table 7-1.

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Executive Summary

PURPOSE

This report documents the seismic walkdowns performed at Peach Bottom Atomic Power Station (PBAPS) Unit 3 in response to NRC 50.54(f) letter dated March 12, 2012, Enclosure 3, Recommendation 2.3: Seismic. Exelon committed to perform this work in accordance with the NRC-endorsed Seismic Walkdown Guidance document (Electric Power Research Institute (EPRI) Technical Report 1025286, Reference 1).

SCOPE OF WORK

In addition to defining the qualifications of personnel performing this work, the EPRI Seismic Walkdown Guidance identifies the following key activities:

- Selection of Systems, Structures, and Components (SSC) to be included in the sample scope of the seismic walkdowns. Screening criteria are applied to obtain an informed sample of electrical and mechanical equipment that are required to perform the four reactor safety functions and containment function, and address NRC concerns about Spent Fuel Pool related equipment. (see Section 4 of this report)
- Seismic Walkdowns and Area Walk-Bys are performed by trained, two-person teams of Seismic Walkdown Engineers (SWEs), who document their inspections on structured checklists included in the EPRI Guidance. (see Section 5 of this report)
- Seismic Licensing Basis Evaluations are performed for issues identified as "potentially adverse seismic conditions," and all issues, whether they rise to this level or not, are included in the Corrective Action Program (CAP) so that standard plant processes can be used to address the issue. (see Section 6 of this report)
- IPEEE Vulnerabilities Resolution Report is required for plants who identified seismic vulnerabilities during their IPEEE program and made commitments to resolve them. IPEEE seismic commitments are identified, resolutions documented, and confirmatory checks made during these walkdowns are documented. (see Section 7 of this report)
- Peer Review is required by a team comprised of at least two individuals for each of the key activities of this project. (see Section 8 of this report)

RESULTS

The Seismic Walkdown Equipment List (SWEL) for PBAPS Unit 3, including the items selected that are common to both Units 2 and 3, e.g., emergency cooling tower equipment, is comprised of 122 items. Of this list, 109 equipment items were walked down during the 180-day window of completion of the initial scope of work required by the 50.54(f) letter. Walkdowns for the remaining 13 items were deferred to the Unit 3

Refueling Outage (RFO) or future electrical bus outages due to accessibility issues, e.g., location inside primary containment or 4KV bus outage requirements. Additionally, confirmation that equipment anchorage is consistent with plant design documentation is required for 50% of the SWEL items having anchorage (e.g., not line-mounted). A total of 55 anchorage configurations were confirmed to be installed in accordance with the design documentation.

All electrical cabinets on the SWEL require assessment of the need for inspections to address the potential for "other adverse seismic conditions" internal to the cabinet. This assessment is required due to an NRC clarification of their expectations for seismic walkdowns, which was received after the online seismic walkdowns were completed. Tables E-2 (for Unit 3) and E-3 (for common equipment) list all electrical items that require assessment. Accessibility of equipment, basis for accessibility determination, completion date of internal inspections, tracking number (if internal inspection has not yet been performed) and inspection results are provided in these tables.

None of the issues identified during the walkdowns of PBAPS Unit 3 equipment and nearby areas required formal seismic licensing basis evaluations because none of the issues ultimately were assessed to be adverse seismic conditions. Smaller issues, however, such as missing mounting fasteners for a solenoid valve, were identified and entered into the plant's Corrective Action Program (CAP). A total of 12 Issue Reports (IRs) were issued, and the status of IR resolutions is provided in Tables 5-2 and 5-3 for issues identified during equipment walkdowns and area walk-bys, respectively.

All seismic vulnerabilities identified during the IPEEE (or A-46) program are summarized in Tables 7-1 and 7-2, including resolutions and confirmatory checks made during these walkdowns. All IPEEE seismic vulnerabilities for Peach Bottom Unit 3 have been resolved.

CONCLUSIONS

1. As confirmed in the Peer Review Report (see Appendix F), all activities required by the 50.54(f) letter were conducted in accordance with the NRC-endorsed EPRI Seismic Walkdown Guidance, except for the following items:

    - Thirteen (13) inaccessible equipment items will need to be walked down during the next Unit 3 RFO or future electrical bus outages.

    - Six (6) electrical cabinets will need to be opened for an internal inspection for "other adverse seismic conditions" in accordance with NRC expectations that were provided to industry after these walkdowns were completed. These inspections are scheduled for the next available electrical outages.

2. None of the 109 equipment items included in the walkdowns have conditions that would prevent them from performing their safety-related functions following a licensing basis seismic event. Additionally, a sample of more than 50% of equipment with anchorage was confirmed to be consistent with design basis documentation.

3. The twelve (12) anomalies or discrepant conditions identified during the equipment walkdowns or area walk-bys have been assessed in accordance with the plant

corrective action program (CAP), and their resolutions are being tracked for timely closure.

1 Introduction

1.1 BACKGROUND

In response to Near-Term Task Force (NTTF) Recommendation 2.3, the Nuclear Regulatory Commission (NRC) issued a 10CFR50.54(f) letter on March 12, 2012 requesting that all licensees perform seismic walkdowns to identify and address plant degraded, non-conforming, or unanalyzed conditions, with respect to the current seismic licensing basis. The Nuclear Energy Institute (NEI), through the Electric Power Research Institute (EPRI), prepared industry guidance to assist licensees in responding to this NRC request. The industry guidance document EPRI Technical Report 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic*, dated June 2012 (Reference 1), was endorsed by the NRC on May 31, 2012.

This report documents the technical basis for Exelon's response to the 10CFR50.54(f) request to conduct seismic walkdowns at Peach Bottom Atomic Power Station Unit 3.

1.2 PLANT OVERVIEW

The Peach Bottom Atomic Power Station (PBAPS) consists of two boiling water reactor (BWR) generating units, located in southeastern Pennsylvania. Both units have GE Mark I containments, are rated at 3514 MWt power, and were designed and constructed by Bechtel (PBAPS Updated Final Safety Analysis Report (UFSAR) (Reference 2), Section 1.1). PBAPS Unit 3 received its full-power license in July 1974 (Facility Operating License No. DPR-56 (Reference 9)).

1.3 APPROACH

The EPRI Seismic Walkdown Guidance (Reference 1) is used for the PBAPS Unit 3 engineering walkdowns and evaluations described in this report. In accordance with Reference 1, the following topics are addressed in the subsequent sections of this report:

- Seismic Licensing Basis
- Personnel Qualifications
- Selection of SSCs
- Seismic Walkdowns and Area Walk-Bys
- Licensing Basis Evaluations
- IPEEE Vulnerabilities Resolution Report
- Peer Review

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Seismic Licensing Basis

2.1 SAFE SHUTDOWN EARTHQUAKE (SSE)

The PBAPS design of Seismic Class I structures are based on a dynamic analysis using the spectrum response curves developed for the site. The structures are analyzed for the maximum credible earthquake (MCE) which considers a maximum horizontal ground acceleration of 0.12g (Reference 2, Section C.2.2). The vertical ground acceleration associated with the MCE is 2/3 of the horizontal acceleration which is 0.08g (Reference 2, Section C.2.2). Critical plant structures were designed in accordance with the response spectra based on data developed from the seismology studies performed for the site. It was concluded that the solid rock foundation is subject to only minor earthquake activity and it is expected to respond well with no adverse effects (Reference 2, Section 1.6.1.1.7).

2.2 DESIGN OF SEISMIC CLASS I SSCs

Generic Letter 87-02 issued on February 19, 1987 and Supplement No. 1 issued May 22, 1992, list PBAPS Unit 3 as an USI A-46 Plant (Table A, Category 3). Seismic Class I mechanical and electrical equipment at PBAPS are qualified using rational stress analysis, empirical methods, or the Seismic Qualification User's Group (SQUG) Generic Implementation Plan (GIP) methodology (Reference 2, Section C.5.1). The use of the SQUG method is limited to the listed equipment classes and cannot be used for equipment PBAPS has specifically committed to the NRC to qualify to IEEE 344-75 (Reference 2, Section C.5.1.3).

3 Personnel Qualifications

Table 3-1 below summarizes the names and corresponding roles of personnel who participated in the NTTF 2.3 Seismic Walkdown effort.

Table 3-1. Personnel Roles

Name	Equipment Selection Engineer	Plant Operations	Seismic Walkdown Engineer (SWE)	Licensing Basis Reviewer	IPEEE Reviewer	Peer Reviewer
B. Frazier	X		X	X	X	
C. Swanner			X	X		X(Note 2)
M. Oghbaei			X	X		
J. Wiggin			X	X		
K. Gantz			X	X		
C. Schlaseman			X(Note 1)			X
P. Butler						X(Note 3)
J. Hanley (Exelon)		X				

Notes:
1. SWE team member for six seismic walkdowns and one area walk-by; therefore did not act as Peer Reviewer for this portion of the walkdowns.
2. Peer Review Team Member for SWEL review.
3. Peer Review Team Leader.

A description of the responsibilities of each Seismic Walkdown participant's role(s) is provided in Section 2 of the EPRI Seismic Walkdown Guidance (Reference 1). Resumes provided in Appendix A provide detail on each person's qualifications for his or her role.

The SWEL preparer, Ben Frazier, does not have prior experience with the IPEEE program, which was performed during the 1990s. The Peer Reviewers, however, do have experience with IPEEE. For SWEL preparation, Mr. Frazier was provided with the plant's IPEEE submittal report and NRC requests for additional information (RAI) responses, as well as the NRC Safety Evaluation (SE) on the IPEEE program. Mr. Frazier's review of these documents, combined with the reviews by the Peer Reviewers, was sufficient to meet the intent of the guidance in Reference 1 that Equipment Selection Personnel "should also have knowledge of the IPEEE program."

In addition to the MPR personnel listed above, Exelon Plant Operations, J. Hanley, reviewed the SWEL. Mr. Hanley is a former licensed Senior Reactor Operator (SRO) at another station, currently holds an SRO Certification at PBAPS, and currently supports operator training. Station personnel also provided support to the SWEL preparer in identifying major equipment or system modifications, equipment and systems located in different environments, and equipment and systems that would be accessible for inspection during the plant walkdowns, in accordance with Reference 1.

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Selection of SSCs

4.1 SWEL Development Overview

The EPRI Seismic Walkdown Guidance (Reference 1) defines the process used to develop the Seismic Walkdown Equipment List (SWEL) for PBAPS Unit 3.

In accordance with Reference 1, a SWEL is comprised of two groups of items:

1. SWEL 1 is a sample of items needed to safely shut down the reactor and maintain containment integrity

2. SWEL 2 is a list of spent fuel pool related items

4.2 SWEL 1 – Sample of Required Items for the Five Safety Functions

The PBAPS Safe Shutdown Equipment List (SSEL) (Reference 3) is considered the "Base List 1" and is provided in Appendix B of this report. To ensure the SSEL Base List 1 meets the EPRI Seismic Walkdown Guidance, the SSEL was compared with the screens described in the following sections. It is noted that the PBAPS SSEL does not specifically address the containment function. Therefore the SSEL was reviewed for components having at least one safety-related containment function. The number of SSEL components with a containment function was considered sufficient for selecting a sample of equipment representing the containment function.

4.2.1 Screen #1 – Seismic Class I

As described in Reference 1, only items that have a defined seismic licensing basis are to be included in SWEL 1. The seismic classification was identified for each item on the SSEL, and items that were not Seismic Class I were removed from consideration for inclusion in SWEL 1. Seismic classification was determined through a review of current design and licensing basis documentation.

4.2.2 Screen #2 – Equipment or Systems

This screen narrowed the scope of items to include only those that do not regularly undergo inspections to confirm that their configuration is consistent with the plant licensing basis. This screen removed Seismic Class I Structures, Containment Penetrations, and Seismic Class I Piping Systems from consideration for inclusion in SWEL 1. Cable/conduit raceways and HVAC ductwork are addressed in area walkbys and not as discrete components in SWEL 1.

4.2.3 *Screen #3 – Support for the 5 Safety Functions*

This screen narrowed the scope of items included on the SWEL 1 to only those associated with maintaining the following five safety functions:

1. Reactor Reactivity Control
2. Reactor Coolant Pressure Control
3. Reactor Coolant Inventory Control
4. Decay Heat Removal
5. Containment Function

The first four functions are associated with bringing the reactor to a safe shutdown condition. The fifth function is associated with maintaining containment integrity.

Reference 3 (Page 5) identifies the primary and backup systems that are applicable to each of the first four safety function. Reference 3 also identifies the support systems for those safety functions (e.g., emergency diesel generators). Components on the SSEL that are essential to the containment function were identified as part of this project because, as noted above, the SSEL did not specifically include equipment for containment function.

4.2.4 *Screen #4 – Sample Considerations*

The items selected from the Base List 1 SSEL for inclusion in SWEL 1 are shown in Tables B-1 (Unit 3) and B-2 (Unit 0, common equipment for both Units 2 and 3) of this report. As described in Reference 1, Screen #4 is intended to result in a SWEL 1 that sufficiently represents a broad population of plant Seismic Class I equipment and systems to meet the objectives of the NRC 50.54(f) Letter. The following attributes were considered in selecting items from the SSEL for inclusion in SWEL 1:

1. **A variety of types of systems**
   The equipment included on SWEL 1 is a representative sample of several systems that perform one or multiple safety functions. Further, the systems represented include both frontline and support systems as listed in Reference 1, Appendix E: Systems to Support Safety Function(s). Examples include Emergency Diesel Generators and related systems, Emergency Core Cooling systems (Residual Heat Removal, Reactor Core Isolation Cooling, Core Spray, High Pressure Coolant Injection), power systems (125 VDC, 120 VAC, 480 VAC), and Ultimate Heat Sink (High Pressure Service Water System and Emergency Service Water System). Note, however, that the Reference 1 Appendix E table of generic BWR safety function systems includes some systems that are not applicable for PBAPS Unit 3 because the SSEL was not required to include all potential shutdown paths, and some systems do not exist at PBAPS (e.g., Isolation Condenser).

2. **Major new and replacement equipment**
   The equipment included on SWEL 1 does not include items that have been recently modified or replaced. Due to the amount of modifications performed in the 1990's

as part of SQUG and IPEEE programs, PBAPS Unit 3 has not made significant modifications to Seismic Class 1 equipment recently.

3. **A variety of types of equipment**
   The equipment class is identified for each item on SWEL 1. The equipment included on SWEL 1 is a representative sample from each of the classes of equipment used in the SSEL, which are the same as the equipment classes used in Reference 1. At least one piece of equipment from each class is included on SWEL 1, except for Class 11, "Chillers;" Class 12, "Air Compressors," and Class 13, "Motor Generators." No Seismic Class I chillers, air compressors, or motor generators were included in the SSEL, and none have been identified that support the five Safety Functions included in this project.

4. **A variety of environments**
   The location for each item is identified on SWEL 1. The equipment included on SWEL 1 is a representative sample from a variety of environments (locations) in the station. These environments include the Screen House, Pump Structure, Diesel Generator Structure (common to both units), Emergency Cooling Tower (common to both units), Turbine Building, Reactor Building, and Drywell.

5. **Equipment enhanced due to vulnerabilities identified during the IPEEE program**
   As discussed in Section 7 of this report, a significant number of IPEEE seismic-related plant improvements were implemented, or were committed to be implemented for PBAPS Unit 3. Table 7-1 shows that all committed changes were made and identifies the sample of this equipment that was included in the SWEL.

6. **Contribution to risk**
   In selecting items for SWEL 1 that met the attributes above, some items with similar attributes were selected based on their higher risk-significance. To determine the relative risk-significance, the Risk Achievement Worth (RAW) and Fussell-Vesely (F-V) importance for a Loss of Off-Site Power (LOOP) scenario from the internal plant PRA were used (Reference 5, Tables 2 and 4). The LOOP scenario from the internal plant PRA includes lists of the 20 pieces of equipment for Unit 3 with the highest F-V risk ranking (0.0168 and above) and highest RAW risk ranking (9.0 and above). The lists of risk-significant components for the LOOP PRA (Reference 5) were compared with the draft SWEL 1 to confirm that a reasonable sample of risk-significant components (relevant for a seismic event) were included on SWEL 1.

In accordance with Reference 1, equipment access was considered when selecting the sample components. Equipment in lower dose areas were selected for the walkdown sample instead of the same component in a different train, but located in a higher dose area.

4.3 SWEL 2 – Spent Fuel Pool Related Items

In accordance with Reference 1, four screens are used to select the SSCs to be included on the second Seismic Walkdown Equipment List (SWEL 2), as described in the following sections.

4.3.1 *Screen #1 - Seismic Class I*

Only Seismic Class I SSCs, or SSCs that could result in rapid drain-down of the SFP (see Screen #4 below), are to be considered for inclusion in SWEL 2. As described in Reference 1, the adequacy of SFP structures is assessed by analysis and is not included in the scope of these walkdowns.

The review of the design and licensing basis documentation for the SFP identified no Seismic Class I equipment for PBAPS Unit 3 (Reference 2, Appendix C and Reference 6). Therefore, no Seismic Class I items are included in SWEL 2.

It is noted that the spent fuel pool cooling and clean-up system is cross-connected to the RHR system (Reference 6, E-2, 3). This is done with a spool piece and does not result in any spent fuel pool cooling and clean-up components being safety-related.

4.3.2 *Screen #2 – Equipment or Systems*

This screen considers only those items from Screen #1 that are appropriate for an equipment walkdown process. Since no Seismic Class I items are included in SWEL 2, no items meet the Screen #2 requirement.

4.3.3 *Screen #3 – Sample Considerations*

Sample considerations do not apply because no Seismic Class I items meet the Screen #1 requirement.

4.3.4 *Screen #4 – Rapid Drain-Down*

This screen identifies items that could allow the spent fuel pool to drain rapidly. Rapid drain-down is defined as lowering of the water level to the top of the fuel assemblies within 72 hours after the earthquake. Consistent with Reference 1, the scope of items included in this screen is limited to the hydraulic lines connected to the SFP and the equipment connected to those lines. For the purposes of this program, the SFP gates are considered to be installed and the SFP cooling system is in its normal alignment for power operations. The SFP gates are passive devices that are integral to the SFP. As such, they are considered capable of withstanding a design basis earthquake and do not allow for a rapid drain-down of the SFP.

Based on review of the PBAPS Unit 3 SFP design information, there are no connections to the fuel storage pool which could allow the fuel pool to be drained below 10 feet above the top of active fuel (Reference 2, Section 10.3.4.2 and Reference 6). The spent fuel pool cooling and clean-up return lines are the only lines that extend below this level but are equipped with siphon breaker holes to prevent inadvertent pool drainage (Reference 6, Note 3). Therefore, no items are required to be added to SWEL 2 to address rapid drain down.

4.4 COMPOSITE SWEL

As described in Section 4.1 above, the final Seismic Walkdown Equipment List (SWEL) for PBAPS Unit 3 is the combined SWEL 1 and SWEL 2. For PBAPS Unit 3, there are

no items in SWEL 2, so the composite SWEL is the same as SWEL 1. Appendix B includes the composite SWEL.

5

Seismic Walkdowns and Area Walk-Bys

5.1 OVERVIEW

Seismic Walkdowns and Area Walk-Bys were conducted by 2-person teams of trained Seismic Walkdown Engineers, in accordance with the EPRI Seismic Walkdown Guidance (Reference 1). The Seismic Walkdowns and Area Walk-Bys are discussed in more detail in the following sections.

5.2 SEISMIC WALKDOWNS

An overview of the equipment included in the Seismic Walkdowns is shown on the PBAPS Unit 3 SWEL and Unit 0 (common equipment with Unit 2) SWEL in Appendix B. A Seismic Walkdown Checklist (SWC) from Appendix C of Reference 1 was completed for each item on the SWEL, except for the deferred items identified at the end of the SWEL. Additionally, photos are included with each SWC to provide a visual record of the item and any significant comment noted on the SWC. Drawings and other plant design documents are cited in most of the SWCs, but they are not included with the SWCs because they are readily available in the plant's electronic document management system. Seismic Walkdowns were completed for 80 of the 92 items on the PBAPS Unit 3 SWEL, plus 29 of the 30 items on the Unit 0 (common) SWEL, for a total of 109 items, not including the 13 deferred.

5.2.1 Anchorage Configuration Confirmation

As required by Reference 1 (page 4-3), the anchorage for at least 50% of the items were confirmed to be consistent with design documentation. The second to last column of Tables C-1 and C-2 show which items are line-mounted and therefore do not count in the anchorage confirmation total (marked "N/A"). Items evaluated for consistency with design documentation was marked "Y"; those that were not compared with design documentation are marked "N". See Table 5-1 below for the accounting of the 50% anchorage configuration confirmations, and the individual SWC forms in Appendix C for the specific documents used in each confirmation.

Table 5-1. Anchorage Configuration Confirmation

Unit 3 or Unit 0 (Common)?	No. of SWEL Items (A)	N/A Items (B)	Required to Confirm? (A-B)/2	Items Confirmed
3	80	11	35	38
0 (Common)	29	4	13	17
Unit 3 and Common	109	15	47	55

5.2.2 Issue Identification

None of the anomalies or issues identified by the SWEs during the equipment walkdowns were ultimately judged to be "Potentially Adverse Seismic Conditions" because in all cases it was concluded the anomaly or issue would not prevent the equipment from performing its safety-related function. Additionally, based on the IRs for each issue, all equipment affected by the as-found condition was determined to be functional. Table 5-2 provides a summary of the issues identified during the Seismic Walkdowns.

Table 5-2. Issues Identified during Seismic Walkdowns

Component ID	Description of Issue	Action Request ID	Actions Complete Y/N(Notes 1, 2)
3DD003 (also AWC-U0-1)	Possible open S-hook noted on light fixture.	IR 01413285	Yes
SV-3-03-033 (also AWC-U3-13)	SV Mounting does not match print.	IR 01413655	No
30C003, 30C004C, 30C005A, LI3-2-3-113, LI-9027, LR/TR-9123B, PI3-6-90A, PR/TR3-2-3-404B, PR/TR-5805 (also AWC-U0-7)	The MCR ceiling's restraint system is consistent with design documentation but the design basis Calculation G-106-1 could not be located from records management or Iron Mountain. This issue is to re-constitute design analysis to supplement existing calculation 26-5/Z-12, specifically at MCR ceiling perimeter, during NTTF 2.1 seismic re-evaluation.	IR 01428651	No
3AE56, 3AE57, 3AE58, 3BE55, 3BE57 (also AWC-U3-8)	Anchorage for ECCS room coolers does not match drawings.	IR 01437853 (Note 3)	No
30B338	A front panel screw is missing and another screw is loose.	IR 01424719	Yes

Table 5-2. Issues Identified during Seismic Walkdowns

Component ID	Description of Issue	Action Request ID	Actions Complete Y/N[Notes 1, 2]
30C722A	The internal flow detector instrument has a loose mounting screw.	IR 01424662	No
30C722B	The two internal power supplies are missing mounting screws where they are mounted to the cabinet.	IR 01424692	No
0AG12, 0BG12, 0CG12, 0DG12	Inconsistency between the observed 0AG12, 0BG12, 0CG12, and 0DG12 anchor bolt size and vendor document E-5-155.	IR 01438055	No

Notes:
1. "Yes" indicates that corrective actions resulting from the issue are complete.
2. "No" indicates that corrective actions resulting from the issue are NOT complete. Actions are tracked by the IR number in the station Corrective Action Program.
3. IR 01411581 was originally identified on the SWCs as being applicable to this issue. Upon further investigation IR 01437853 was written to fully capture the issue.

5.3 AREA WALK-BYS

In accordance with Reference 1, Area Walk-bys were performed for each room or area within a large room which included one or more items on the SWEL. The last column of Tables C-1 and C-2 show the number of unique Area Walk-By Checklists (AWCs) completed during the walkdowns for PBAPS Unit 3 and Unit 0 (common). All completed AWCs are included in Appendix D. Photos are not included with the AWC forms because they are part of the SWC package of the identified equipment item. A total of 25 AWCs were completed for Unit 3, plus 13 for Unit 0 (common).

None of the anomalies or issues identified by the SWEs during the Area Walk-Bys were judged to be "Potentially Adverse Seismic Conditions" because in all cases the anomaly or issue would not prevent surrounding equipment from performing its safety-related function. Additionally, based on the IRs for each issue, all equipment affected by the as-found condition was determined to be functional.

Table 5-3 at the end of this section provides a summary of the issues identified in the Area Walk-Bys.

Table 5-3. Issues Identified during Area Walk-Bys

Component ID/Area	Description of Issue	Action Request ID	Actions Complete Y/N[Notes 1, 2]
AWC-U3-2	U-bolt identified as unattached on a non-Q line.	IR 01413652	Yes
AWC-U3-3	Severely corroded nut on 3A HPSW Plate.	IR 01410116	No
AWC-U3-25	Ladder identified on floor of SW Screen House.	IR 01406272	Yes
AWC-U3-7	Loose cover plate bolt identified on 30C221 judged acceptable. Bolt should be tightened.	IR 01424737	No

Notes:
1. "Yes" indicates that corrective actions resulting from the issue are complete.
2. "No" indicates that corrective actions resulting from the issue are NOT complete. Actions are tracked by the IR number in the station Corrective Action Program.

6

Licensing Basis Evaluations

As noted in Sections 5.2.2 and 5.3, the issues identified during the Seismic Walkdowns and Area Walk-Bys were not determined to be "Potentially Adverse Seismic Conditions" because in all cases the anomaly or issue would not prevent the equipment from performing its safety-related function. Therefore, no formal Licensing Basis Evaluations were necessary and none were performed.

7

IPEEE Vulnerabilities Resolution Report

The Individual Plant Examination of External Events (IPEEE) report for PBAPS (Reference 7) and the NRC Safety Evaluation on the IPEEE report (Reference 8), identified a number of seismic vulnerabilities. This occurs since the IPEEE reviews were performed in parallel with the original SQUG seismic verification of various equipment. Each of the seismic vulnerabilities identified in Reference 7 were verified to be implemented and closed out per AR No. A1056479 (Reference 10). Additionally many of the identified IPEEE vulnerabilities were verified to be implemented during the seismic walkdowns. Table 7-1 below lists identified IPEEE (and A-46) vulnerabilities, indicates how each one was resolved, and identifies the specific items that were verified in the field during the walkdowns. Table 7-2 lists the PBAPS Unit 3 and Common IPEEE seismic vulnerabilities that were previously resolved by analysis. There are no outstanding IPEEE vulnerabilities and all previously identified IPEEE vulnerabilities have been resolved.

Table 7-1. PBAPS Unit 3 and Common IPEEE Seismic Vulnerabilities Resolutions

Component ID	Issue	Planned Resolution	Resolution from A/R # A1056479	Sample Component Walkdown Resolution
00B97 00B98 00B99	Interaction concerns.	Breaker hoist will be restrained or removed.	Work completed under work order C0188074 on August 1, 2000.	None
30B10/11/12/13	Some cubicles missing plug welds to embedded angle. Breaker hoists are interaction concern, not prevented from tipping. Adjacent oil filled transformers are unanchored.	Add missing plug welds. Breaker hoist will be restrained or removed. Modification will replace with ventilated dry type transformers that are properly anchored.	Work completed for plug welds under work orders C0186234 and C0186267 on August 1, 2000, and under work orders C0186428 and C0186429 on October 16, 2000. Work completed for breaker hoist under work order C0183131 on August 1, 2000. A walkdown was performed on April 24, 1997 to verify that all of the new transformers were installed for MOD 5099.	30B010 and 30B013 included in walkdown sample. Confirmed issue resolved.
00B94/95/96	Unanchored switchgear and transformers. Interaction concern with breaker hoist.	Switchgear will be anchored. Hoist will be restrained or removed.	Work completed for anchorage under work orders C0189242 and C0189243 on August 1, 2000, and C0189244 on October 16, 2000. Work completed for breaker hoist under work orders C0188074 on August 1, 2000.	None
30A15/16/17/18	Door latching mechanisms are only engaged at center of door. Latching bolts at top and bottom are not engaged. 30A15,16,17 have spare breakers which are not adequately secured.	Latches will be fastened and neoprene pads may be provided. Spare breakers will be removed or secured.	Work completed under work order C0177308 on August 1, 2000. Per Item 4, p. 17 of A1056479, as of August 1, 2000, spare breakers removed and will not be stored in switchgear rooms per procedure SO 54.7.C. No PIMS work recorded for removal of spare breakers.	None
30X133/150	30KVA transformer coils are missing 2 of 4 holding bolts.	Perform evaluation of coil anchorage and modify if required.	ECR PB 97-02258 has been completed. CALC PS-0947 reviewed the transformers and concluded that the outlier conditions are seismically acceptable (September 29, 1997).	30X133 included in walkdown sample. No modification to confirm.
30X31/33	Oil filled transformers are unanchored.	Replace with ABB 1000KVA VPE ventilated dry type transformer properly anchored.	A walkdown was performed on April 24, 1997 to verify that all of the new transformers were installed for MOD 5099.	30X33 included in walkdown sample. Confirmed issue resolved.

Table 7-1. PBAPS Unit 3 and Common IPEEE Seismic Vulnerabilities Resolutions

Component ID	Issue	Planned Resolution	Resolution from A/R # A1056479	Sample Component Walkdown Resolution
00X103 30X135	Anchorage of transformer coils to enclosure support surface indeterminate.	Vendor drawings will be reviewed and evaluated and if necessary anchorage will be reworked to comply.	ECR PB 97-02258 has been completed. CALC PS-0947 reviewed the transformers and concluded that the outlier conditions are seismically acceptable (September 29, 1997).	None
0AX26/0BX26/0CX26	Anchorage could not be verified.	Transformer will be anchored.	Work completed under work order C0189169 on August 1, 2000.	None
3AP42/3BP42/3CP42/3DP42 0AP57/0BP57	Pump casing and shaft are greater than 20 ft. Non-tied down yard gantry crank could fall on pump house.	Analytic evaluation proved pump casings and shafts acceptable. Yard crane will be restrained when not in use.	Analysis completed as of IPEEE submittal May 1996. Work completed under A/R A1188705 on August 1, 2000.	3CP042 and 0BP057 included in walkdown sample. Confirmed issue resolved.
MO-33-0498	Valve has interaction concern with radiation element outlet.	Support for radiation element outlet will be modified.	Work completed under work order C0182155 on August 1, 2000.	MO-0-33-0498 included in walkdown sample. Confirmed issue resolved.
AO3-03-33	Distances from pipe centerline to top of valve operator is outside of experience database.	Review documentation and perform analysis if required to demonstrate seismic capacity.	ECR PB 97-02258 has been completed. CALC PS-0947 reviewed the air operated valve and concluded that the outlier conditions are seismically acceptable (September 29, 1997).	AO3-03-33 included in walkdown sample. No modification to confirm.
MO3-13-5487	Valve operator weights and/or centerline distances are outside of the experience database.	Review documentation and perform analysis if required to demonstrate seismic adequacy.	ECR PB 97-02258 has been completed. CALC PS-0947 reviewed the MOV and concluded that the outlier conditions are seismically acceptable (September 29, 1997).	None
0AV035/36 0BV035/36	Overhead ducts need to be reviewed as part of the IPEEE for seismic adequacy.	Evaluate overhead systems and modify as required or develop suitable operator actions.	ECR 97-00992 was taken to approved (and complete) status on July 24, 1997. The required physical (MOD) work in the plant was tracked by A1056479-12.	0AV036, 0BV035, and 0BV036 included in walkdown sample. No issues identified with overhead ducting.
00F043	Overhead ducts are an interaction concern.	Evaluate overhead systems and modify as required or develop suitable operator actions.	ECR 97-00992 was taken to approved (and complete) status on July 24, 1997. The required physical (MOD) work in the plant was tracked by A1056479-12.	None

Table 7-1. PBAPS Unit 3 and Common IPEEE Seismic Vulnerabilities Resolutions

Component ID	Issue	Planned Resolution	Resolution from A/R # A1056479	Sample Component Walkdown Resolution
0AV034	Attached heating piping at upper nozzles is poorly supported. Overhead ducts are an interaction concern.	Evaluate steam piping and modify if required. Evaluate overhead systems and modify as required or develop suitable operator actions.	ECR 97-00992 was taken to approved (and complete) status on July 24, 1997. The required physical (MOD) work in the plant was tracked by A1056479-12.	None
30D22/23/24	Depth of panels are less than that which is included in earthquake experience database. Anchor bolts have 2 1/4" eccentricity and in addition, corner plates are too flexible and do not provide an adequate load path.	Top supports will be provided and existing floor anchorage will be evaluated and modified as required.	Work completed under work order C0190338 on December 14, 2000.	None
3AD01/3BD01/3CD01/3DD01	Batteries are more than 450 lbs. (actual weight 700 lbs.) which is outside experience database. Also, end rails are not snug with batteries. Also overhead fluorescent lights are suspended with chains having open S-hooks.	Review of existing data showed that the batteries are qualified to IEEE-323 (1974) and IEEE-344 (1975). A snug fit will be provided at end rails and the S-hooks will be closed.	Work completed under work order C0193773 on August 1, 2000.	3BC01, 3CD01, and 3DD01 included in walkdown sample. Confirmed issue resolved for 3BC01 and 3DD01.
0AG12/0BG12/0CG12/0DG12	Interaction concerns with overhead crane controller. Local panel on vibration isolators without lateral capacity.	Overhead crane controller will be tied down when not in used. Vibration isolators will be modified to preclude dislodging in SSE.	Work completed under work orders C0181161, C0181153, C0181159, and C0179951, and C0193768 on August 1, 2000.	0AG012 and 0DG012 included in walkdown sample. Confirmed issue resolved.
TIC-30223	Cover on temperature controller is loose.	Cover will be secured.	Component was secured under ECR 99-00149 on August 1, 2000.	None
0AG13/0BG13/0CG13/0DG13 0AC097/0BC097/0CC097 0DC097	Interaction concerns exist regarding overhead crane controller.	Overhead crane controller will be tied down when not in use.	Work completed under work order C0193768 on August 1, 2000.	0AC097 included in walkdown sample. Confirmed issue resolved (documented for 0AG012).
00C29A/B/C/D 30C124	Interaction concerns with housekeeping issues in the Control Room.	Items will be removed or restrained.	Work completed under work order C0183590 on August 1, 2000.	00C29B included in walkdown sample. Confirmed issue resolved.

Table 7-1. PBAPS Unit 3 and Common IPEEE Seismic Vulnerabilities Resolutions

Component ID	Issue	Planned Resolution	Resolution from A/R # A1056479	Sample Component Walkdown Resolution
30C32/33 30C722B	Cabinets are not bolted to the adjacent cabinet. Interaction concerns exist with adjacent non-safety cabinets and cable tray.	Adjacent cabinets will be tied together front and back. Table will be blocked and located so tipping will not cause impact. Cushioning will be provided between adjacent non-safety cabinet and impact loading will be evaluated.	Work completed to resolve cabinet interactions under work order C0190338 on December 14, 2000. Work completed to resolve cable tray interaction with 30C032 under work order C0193837 on August 1, 2000.	30C32, 30C33, and 30C722B included in walkdown sample. Confirmed issue resolved.
Pipe stanchion supports Rx. Bldg. 195' RW Bldg. 165'	Lateral load criteria not met.	Install knee brace at top of stanchion at midspan of raceway and attach to floor or install lateral supports.	Work completed under work orders C0189101, C0189160, and C0190050 on August 1, 2000.	None - issue not applicable to this walkdown.
U3 HCU's	Top horizontal frame for HCU piping does not have adequate lateral bracing.	Horizontal bracing will be added.	Work completed under work orders C0187209 and C0187392 on August 1, 2000.	HCU-06-47 and HCU-14-35 included in walkdown sample. Confirmed issue resolved.
El. 165' Mech. Equipment Room HVAC ducting	Various duct and interaction issues including aux. steam piping.	Perform evaluation of overhead systems and modify as required or develop suitable operator actions.	Work completed under work orders C0190892, C0187741, C0191039, and C0182488 on August 2, 2000, and under work order C0195436 on December 18, 2000.	None

Table 7-2. PBAPS Unit 3 and Common IPEEE Seismic Vulnerabilities Resolved by Analysis

Component ID	Issue	Planned Resolution	Actual Resolution of Condition	Resolution Date
30D11 00B53 00B54 00B55 00B56	Anchorage evaluation required.	Evaluate anchorage.	Anchorage evaluation completed and anchorage of MCCs are adequate.	5/1997
AO3-01-080A/B/C/D AO3-01-086A/B/C/D	Distance from pipe centerline to top of valve operator is outside of experience database.	Evaluate centerline distance of valve operators.	Calculations show valves have acceptable seismic capacities.	2/1996
MO3-23-019 MO3-23-025 MO3-10-016A/B/C/D MO3-12-015 MO3-10-025A/B MO3-13-027 MO3-13-131 MO3-13-132	Valve operator weights and/or centerline distances are outside of the experience database.	Evaluate weight and centerline distance of valve operators.	Existing documentation review indicates valves are qualified to an acceptable seismic acceleration.	5/1996
MO3-30-3233A/B	Cast iron yoke.	Evaluate suitability of cast iron yoke.	Existing documentation was reviewed and components were determined to be seismically adequate.	5/1996
3AC65	Anchorage does not screen.	Evaluate anchorage.	Evaluation of anchorage was performed and was shown to be seismically adequate.	5/1997
3AE24/3BE24/3CE24/3DE24	Heat exchanger anchorage evaluation is unknown.	Evaluate anchorage.	Review of RHR Heat Exchanger modification calculations evaluated anchorage capacity for the RHR Heat Exchangers and found them to be seismically adequate.	1/2004

8 Peer Review

8.1 Overview

In accordance with the EPRI Seismic Walkdown Guidance (Reference 1), a peer review of this project was performed during the preparation of the Seismic Walkdown Equipment List (SWEL), during implementation of the seismic walkdowns and area walk-bys, and following completion of the issue resolutions. Specifically, the peer review addresses the following activities:

- Review of the selection of the structures, systems, and components, (SSCs) that are included in the Seismic Walkdown Equipment List (SWEL),
- Review of a sample of the checklists prepared for the Seismic Walkdowns & Walk-Bys,
- Review of any licensing basis evaluations,
- Review of the decisions for entering the potentially adverse conditions in to the plant's Corrective Action Program (CAP), and
- Review of the final submittal report.

The complete Peer Review Report is included in Appendix F.

8.2 Review of SWEL

The peer review checklist for SWEL is included as an attachment to the Peer Review Report. This checklist was used to ensure that the SWEL 1, SWEL 2, and composite final SWEL meet the criteria of Reference 1. All peer review comments on the SWEL were resolved.

8.3 Review of Sample Seismic Walkdown and Area Walk-By Checklists

Approximately 26% of the Seismic Walkdown packages, i.e., SWC forms, photographs, and drawings (where applicable) were reviewed by the peer review team. Additionally, interviews were conducted with both teams of Seismic Walkdown Engineers to ensure that the seismic walkdowns and area walk-bys were performed in accordance with Reference 1.

The peer review team did not require any clarifications be added to the SWC and AWC forms reviewed.

8.4 REVIEW OF LICENSING BASIS EVALUATIONS

As discussed in Sections 5 and 6 of this report, the issues identified during the seismic walkdowns and area walk-bys did not threaten the ability of Seismic Class I equipment to perform their safety functions. The specific items that have been entered in the PBAPS Corrective Action Program (CAP) were reviewed, and no concerns with the assessments or proposed resolutions were identified.

8.5 REVIEW OF SUBMITTAL REPORT

The signature of the Peer Review Team Leader on the cover of this report indicates a satisfactory review and resolution of any comments and confirms that all necessary elements of the peer review were completed.

9 References

Reference drawings related to the walkdown of SWEL items are documented on the Seismic Walkdown Checklists (SWCs) in Appendix C, and if applicable, on the Area Walk-By Checklists (AWCs) in Appendix D.

1. EPRI Technical Report 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic*, dated June 2012.

2. *Peach Bottom Atomic Power Station Updated Final Safety Analysis Report* (UFSAR), Revision 23.

3. PECO Document No. NE-117-51, *Safe Shutdown Equipment List (SSEL) for Peach Bottom Atomic Power Station*, Revision 0.

4. Not used.

5. Exelon Document No. PB-MISC-009, *Risk Ranking to Support NTTF 2.3 Seismic Walkdowns*, Revision 0.

6. PBAPS Drawing No. M-363, P & I Diagram - Fuel Pool Cooling and Clean-up, Sheet 2, Revision 40.

7. PECO Energy Company, *Peach Bottom Atomic Power Station Units 2 and 3, Individual Plant Examination for External Events*, May 1996.

8. NRC Letter (B. C. Buckley) to PECO (J. A. Hutton), Review of Peach Bottom Atomic Power Station, Units 2 and 3, Individual Plant Examination of External Events Submittal (TAC NOS. M83657 AND M83658), dated November 22, 1999.

9. Facility Operating License No. DPR-56, NRC Docket No. 50-278, Amendment No. 284, Dated May 29, 2007.

10. PBAPS Action Request A1056479, Last updated 12/20/2000.

A

Project Personnel Resumes and SWE Certificates

Resumes and SWE certificates are included for the team of engineers, followed by the resume for the Peer Review Team Lead, Patrick Butler.

MPR ASSOCIATES INC. ENGINEERS

Benjamin M. Frazier

EXPERIENCE SUMMARY

2007 – Present	MPR Associates, Inc.
2003 – 2007	United States Navy

Since joining MPR in 2007, Mr. Frazier has been involved in a number of projects for the commercial nuclear industry. He has considerable experience with commercial grade dedication of mechanical components, concrete, and testing services.

Prior to employment at MPR, Mr. Frazier gained experience onboard a nuclear powered ballistic missile submarine. Mr. Frazier operated the propulsion plant and was responsible for major system repairs. Mr. Frazier was a maintenance work group supervisor during two maintenance periods including an extended period in drydock. The work performed under his supervision during these periods included replacement of a primary system valve, diesel generator repairs, extensive system restart testing, and numerous plant start-ups and shut-downs as lead supervisor.

ACCOMPLISHMENTS SUMMARY

Inspections and Testing
Developed and implemented inspection and test procedures for pressure vessels, completed process systems, structural supports, reinforced concrete, and concrete anchorages. Anchorage testing includes testing for cast in place anchors and post installation anchors.

Commercial Grade Dedication
Certified MPR Commercial Grade Dedication Subject Matter Expert (Mechanical)

Developed and implemented the commercial grade dedication documents for testing services, pressure vessels, pipes, unlisted components, reinforced concrete, and structural supports.

Work included development of specifications, development of failure modes and effects analyses (FMEAs), critical characteristics, resolution of design and manufacturing non-conformances, and development and implementation of inspection and test plans (see below).

Component Design and Analysis
Performed design work for various components including pressure vessels, heat exchangers, piping systems, pipe repair assemblies, and concrete anchorages. Work included the development of specifications, drawings, and/or calculations.

Independent Design Reviews
Performed independent design reviews for various components including a diesel generator voltage regulator modification, a shaft anti-rotation device, and the first of a kind implementation of a gravity fed piping system used to remove detritus from a circulating water intake structure.

Failure Analyses
Evaluated the failure of Emergency Diesel Generator (EDG) air system components and its effects on the capability of the EDG to carry design basis loads.

Fatigue Analyses
Performed fatigue analyses of feed pump drive train components and reactor coolant pump seal injection piping.

Piping System Thermal-Hydraulic Evaluation
Evaluated the Service Water System for a Nuclear Power Plant for all design basis accident conditions using a thermal-hydraulic model.

Boric Acid Degradation
Managed MPR project to evaluate the effects of boric acid degradation on a reinforced concrete spent fuel pool structure.

Pressure Locking/Thermal Binding Analyses
Evaluated safety related flex wedge valves for the effects of pressure locking due to seat leakage and for the effects of transient induced thermal binding.

EDUCATION

United States Naval Academy, B.S. Mechanical Engineering, 2003 (With Merit)

United States Navy Nuclear Power Officer Training Program, 2004

QUALIFICATIONS AND TRAINING

Seismic Qualification Utility Group (SQUG) course for Seismic Capability Engineers, as defined by the NRC's Unresolved Safety Issue (USI) A-46 Program, 2012

EPRI Seismic Walkdown Engineer (SWE) training, 2012

Commercial Grade Dedication Subject Matter Expert (Mechanical), 2011

Level II Inspector (Mechanical), 2011

Lead Auditor, 2012

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Certificate of Completion

Benjamin Frazier

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

July 3, 2012
Date

Caroline S. Schlaseman, P.E.
Instructor

MPR ASSOCIATES INC. ENGINEERS

Kevin Gantz

EXPERIENCE SUMMARY

January 2008 – Present MPR Associates, Inc.

Kevin began employment at MPR in January of 2008. Since joining, he has been primarily involved in stress analysis of nuclear power plant structures and plant component evaluations to ASME Boiler & Pressure Vessel Code Requirements. His experience includes thermal and structural finite element stress analysis.

ACCOMPLISHMENTS SUMMARY

Stress Analysis of Generation III+ Reactor Internals

Performed multiple stress analysis of three-dimensional solid models using the ANSYS finite element code to demonstrate conformance with Section III, Subsection NG of the ASME Boiler & Pressure Vessel code. This analysis involved both thermal and structural analysis, including analysis of fatigue using the ANSYS fatigue module. Hydraulic, thermal, seismic, and flow induced vibration loads were evaluated.

Development of a Flow Induced Vibration System Model for Generation III+ Reactor

Developed and refined a flow induced vibration model to support the design of the reactor internals of a Generation III+ reactor. The model included the reactor pressure vessel, core support structures, and other reactor vessel internals components. The model included representations of the hydrodynamic mass in the reactor and accounted for fluid-structure interaction effects.

Pressure Vessel ASME Code Analyses for Replacement Components

Performed several stress analyses using hand calculation methods and the ANSYS finite element code to demonstrate conformance with ASME Boiler & Pressure Vessel Code Section III and Section VIII acceptance criteria. Examples of vessels analyzed include heat exchangers, filter housings, and pump blocks.

Building Design Basis Calculation Review to Address Potential Decreased Strength from Alkali-Silica Reaction in Concrete

Reviewed existing design basis calculations for several buildings at a nuclear power plant to quantify the existing margin to accommodate a potential decrease in concrete strength from Alkali-Silica Reaction. In cases where documented margin was not sufficient, evaluations were performed to remove unnecessary conservatism from the evaluations and increase margin.

Replacement EDG Seismic Analysis

Used the ANSYS finite element code to analyze a solid model of a replacement Emergency Diesel Generator for seismic loads. Component attachments were also evaluated for seismic loads using hand calculations.

Crystal River 3 Repaired Containment Design Basis Analysis

Used the ANSYS finite element code to evaluate the CR3 post-tensioned containment to plant design basis acceptance criteria after a planned repair. The repair was performed to restore a temporary steam generator installation opening and to repair a delaminated region of concrete. The analysis involved evaluating repair alternatives, detensioning and retensioning schemes, containment stress under design basis loading conditions and accounted for effects such as thermal gradients, creep, shrinkage, and tendon prestress losses.

EDUCATION

Virginia Tech, M.S. Mechanical Engineering, 2005-2007

Virginia Tech, B.S. Mechanical Engineering, 2002-2006

QUALIFICATIONS AND TRAINING

Seismic Qualification Utility Group (SQUG) course for Seismic Capability Engineers, as defined by the NRC's Unresolved Safety Issue (USI) A-46 Program, 2012

EPRI Seismic Walkdown Engineer (SWE) training, 2012

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Kevin Gantz

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

July 3, 2012
Date

Caroline S. Schlaseman, P.E.
Instructor

MPR ASSOCIATES INC. ENGINEERS

Craig B. Swanner, P.E.

EXPERIENCE SUMMARY

1994 – present MPR Associates, Inc.

Mr. Swanner joined MPR in 1994. He has worked extensively in project engineering, licensing, design of BWR reactor internals repairs, design and structural analyses of ASME Boiler and Pressure Vessel Code components, instrumentation & control and motor-operated valves.

ACCOMPLISHMENTS SUMMARY

Seismic Qualification

Managed the structural and seismic design of replacement electrical cabinets for safety related emergency diesel generators at multiple units and multiple sites. Seismic qualification included dynamic time history evaluation of cabinet response as well as seismic shake table testing. Seismic qualification satisfied requirements of IEEE Std 344.

BWR Core Shroud Repair Design

Designed a repair to structurally replace all circumferential welds in five BWR core shrouds. Performed design analyses to demonstrate the adequacy of the repair. Specific analyses performed included: repair assembly ASME Code Section III stress analysis, static load definition, evaluation of the effects of flow-induced vibration and shroud vibration on the repair, assessment of the effects of the repair on core downcomer flow characteristics, and evaluation of repair assembly thermal expansion.

Project Engineering

Provided project engineering support to various nuclear utilities on multi-million dollar, emergent critical path tasks. Responsibilities included resolution of emergent issues, supervision of procurement and receipt of safety-related components, interface with the design organization, plant management, work planning and the field. Experiences provided first hand, working level knowledge of practical application of all aspects of 10CFR50 Appendix B and how it is applied at different utilities.

BWR In-Vessel Piping Repairs

Designed first-of-a-kind repair clamps to structurally replace cracked welds in a BWR in-vessel feedwater sparger and a core spray line. Designed and managed fabrication of the tooling to remotely install feedwater sparger repair clamps from refueling bridge above vessel.

Design Basis Information Review

Provided management direction for a program to demonstrate the adequacy and availability of design basis information. Assisted preparation of the utility response to the NRC's 10 CFR 50.54(f) request. Prepared the engineering self-assessment report, which provided the supporting information for the conclusions drawn in the response. The program included vertical slice reviews of seven risk significant systems, a comprehensive review of engineering programs including Individual Plant Examination of External Events (IPEEE), Environmental Qualification, and Fire Protection, a UFSAR review, and a Technical Specification review. The reviews assessed the adequacy of the configuration control program in maintaining the design and licensing basis documents in conformance with operations, maintenance, and surveillance procedures and the physical plant configuration. Evaluated the discrepancies identified in the reviews for overall areas of weakness and recommended appropriate corrective actions.

ABWR Licensing

Served as the Engineering Procurement Construction (EPC) Team Licensing Lead for Digital Instrumentation and Control (DI&C) and Human Factors Engineering (HFE) for the first domestic ABWR construction project. Supported COLA Revisions, responses to USNRC Requests for Additional Information, and USNRC Inspections. Provided leadership in strategy development for the closure process of Design Acceptance Criteria (DAC)-related Inspection Test Analyses Acceptance Criteria (ITAAC).

Pressure Locking and Thermal Binding

Analyzed valves at several nuclear units to determine the bonnet pressurization due to valve heatup. The model utilized accounts for expansion of the bonnet with pressure and temperature. These analyses formed part of the utility's formal submittal in response to NRC Generic Letter 95-07.

Pump Modification for Debris Laden Fluid
Designed pump modification to prevent plugging of hydrostatic bearing during post accident operation when suction is taken from containment sump. Developed and designed mockups of pump close clearances to be used in wear testing with debris laden process fluid. Managed fabrication of mockups and pump modification. Supervised safety-related wear testing and provided field engineering support and inspection activities during installation of design in safety-related pump.

BWR Safety Relief Discharge Vacuum Breaker Design Modification
Developed modification to repair failed hinge arm of swing check valve installed as a vacuum breaker in the safety valve relief discharge lines at a BWR. Performed root cause evaluation to identify magnitude of pressure transient resulting in failure. Managed project to develop modification to prevent damage to hinge arm. The project included development of a design change package complete with design drawings, supporting analyses, and installation instructions. The modification was successfully installed on twelve vacuum breakers during a refueling outage.

Managed MOV Calculation Upgrade Effort
Implemented a program to upgrade calculations for 112 MOVs within the scope of Generic Letter 89-10 at one nuclear unit. Managed entire project to meet critical path outage window. Ensured input parameters from other organizations were in place to minimize the need for revision and field re-work. Recommended modifications to ensure operability of all MOVs after refurbishment. Calculations include seismic/weak link, evaluation of required thrust using EPRI PPM, DC motor stroke time, and MOV torque and thrust setup using AltraMOV. Final calculations received NRC approval, removing MOVs as an obstacle for restart of the unit.

Software Development for Bolted Closures
Managed a project to upgrade a computer software package used for the analysis of bolted closures. Identified and implemented the necessary code changes for the upgrade. Developed a software validation plan and supervised the final verification and validation of the software. Wrote the software users manual.

EDUCATION

Virginia Tech, B.S. Aerospace Engineering, 1994 (Summa Cum Laude)
Minors in Physics and Mathematics

REGISTRATION

Registered Professional Engineer, Commonwealth of Virginia

TRAINING

Seismic Capability Engineer, SQUG Training
Seismic Walkdown Engineer, EPRI NTTF 2.3 Seismic Walkdown Training Course

PUBLICATIONS

Knittle, P., Swanner, C., et al. "Modification of BWR Relief Valve Discharge Line Vacuum Breakers to Prevent Damage Due to Cyclic Loading," *Proceedings of the Eighth EPRI Valve Technology Symposium*. Electric Power Research Institute, 2001.

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Certificate of Completion

Craig Swanner

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

July 3, 2012
Date

Caroline S. Schlaseman, P.E.
Instructor

MPR ASSOCIATES INC. ENGINEERS

Mojtaba Oghbaei

EXPERIENCE SUMMARY

January 2006 – Present MPR Associates, Inc.

Mr. Oghbaei joined MPR in 2006. He has had significant experience in development of advanced analytic techniques and their application to specific practical problems. Particular subjects worked on include: two-phase thermal hydraulics; fluid transients in piping systems including waterhammer, two-phase flow, the effect of trapped voids, fluid structure interaction, and analysis of structures subjected to fluid transients. A large part of the engineering involved computer simulations using numerical methods.

Mr. Oghbaei has also significant experience in ASME Code evaluation of pressure vessels and piping systems as well as structural evaluation of components. The focus has been on evaluating the structural adequacy of components in nuclear applications such as heat exchangers, tanks, strainers, valves, and piping. He has also worked in seismic evaluation of components such as tanks and heat exchangers.

Specific examples of Mr. Oghbaei 's work include:

ACCOMPLISHMENTS SUMMARY

Nuclear Power Plant Transient Analyses
Evaluated transient two-phase flow conditions in nuclear power plants. This work included using of transient analysis computer programs for the detailed analysis of power plant components such as heat exchangers, pumps, and associated piping.

Column Closure Waterhammer Analyses
Performed analyses to simulate column closure waterhammer events in nuclear power plants. These events typically occur after a loss of power to the pumps causes the water in piping systems to drain forming a void. Upon restart, the accelerating water columns cause void condensation and collision between the columns. .

Simulation of Fast Transients
Performed analyses to evaluate fast transients in piping systems that include rapid valve closure/opening, pump start/stop to calculate hydraulic loads on piping.

Effect of Entrapped Air on Pumps Startup
Analyzed the effect of trapped air upstream of a pump on the startup characteristics of the pump. The analysis involved prediction of the amount of air trapped in the piping upstream of the pump that would be transported to the pump, and its effect on the pump performance based on industry accepted criteria. Analyses using the technique indicate successful startup of a pump with entrapped air is dependent on piping and pump geometry as well as on the temperature of the water being pumped.

Nuclear Power Plant Piping Analyses
Analyzed piping systems in nuclear power plants subjected to deadweight, thermal, and seismic loading. Performed piping and support stress analysis to determine support configuration modification required to ensure adequate capacities.

Nuclear Power Plant Containment Analyses
Involved in preparation and review of postulated High Energy Line Break (HELB) and Post-LOCA heatup scenarios using GOTHIC software for containment, turbine building, auxiliary building and control room. The analysis results and recommendations were used for Equipment Qualification (EQ) purposes.

Analyses of reactor Coolant Pump Seals
Performed thermal hydraulic analyses to simulate reactor coolant pump seals. When the cooling water flow to the seals is lost, the hot reactor coolant starts flowing to the seals. The increased temperature can cause the seals to rotate open due to differential thermal expansion. Since the seals are the primary hydraulic resistance in the system, the seal rotation increases loss of reactor coolant inventory.

ASME B&PV Code Evaluation of Pressure Vessels
Performed Section III and Section VIII ASME B&PV Code evaluation of several heat exchangers, tanks, strainers, valves, and piping systems. This includes structural evaluation of pressure boundary and internal components using both hand calculation and finite element evaluations.

Piping Crack Evaluation using Fracture Mechanics Analytical Methods
Performed piping crack analyses to determine structural adequacy and provide inputs for leak-before-break (LBB) evaluations for primary and secondary piping systems.

MOV Analysis for Required Stem Thrust and Weak Link Evaluation
Performed required thrust evaluation of MOVs under different system conditions using the EPRI PPM Methodology and reviewed vendor weak link analyses as part of NRC Information Notice 92-18.

EDUCATION

B.S., M.S. and Ph.D. in Mechanical Engineering.

Rensselaer Polytechnic Institute, Ph.D. in Mechanical Engineering, December 2005.

QUALIFICATION AND TRAINING

Seismic Qualification Utility Group (SQUG) course for Seismic Capability Engineers, as defined by the NRC's Unresolved Safety Issue (USI) A-46 Program, 2012

EPRI Seismic Walkdown Engineer (SWE) training, 2012

PUBLICATIONS

A State-Time Formulation for Dynamic Systems Simulation Using Parallel Computing Resources, Nonlinear Dynamics, 39(3), pp. 305-318, Feb. 2005.

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Certificate of Completion

Mojtaba Oghbaei

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

July 3, 2012
Date

Caroline S. Schlaseman, P.E.
Instructor

MPR ASSOCIATES INC. ENGINEERS

James N. Wiggin

EXPERIENCE SUMMARY

2006 – 2007 FEV Engine Technology
2008 – present MPR Associates, Inc.

Mr. Wiggin joined MPR Associates in 2008. Previously he performed finite element analyses of power train components for an engine design and development company. Since joining MPR, Mr. Wiggin has developed expertise in the following diverse technical areas: stand-by AC power sources; power plant procedures and system modifications; commercial grade dedication; inspection and procurement of nuclear safety-related equipment; component & system design basis analysis; balance-of-plant system operations; motor-operated valves; and centrifugal pump operation.

ACCOMPLISHMENTS SUMMARY

Stand-by AC Power

Mr. Wiggin has experience with the following aspects of emergency AC power generation: engine signature analysis (ESA), root cause investigation, preventive maintenance, condition-based maintenance, ultra-low sulfur diesel (ULSD) effects, fuel economy, power up-rates and regulatory compliance. Examples of some of these disciplines include:

- Performed ESA for several nuclear power industry clients on a variety of diesel engine types. Also taught an ESA course to members of the Korean Electric Power Research Institute.
- Conducted engine maintenance reviews for nuclear power plants and reviewed EDG mechanical calculations for planned engine power up-rates.
- Performed past-operability analyses, EDG reliability and vulnerability studies and fuel oil/lube oil compatibility evaluations for nuclear power plants.

Design Basis Analysis

Mr. Wiggin has evaluated the design basis of balance-of-plant components including valves, pumps, system piping, dampers and doors for possible safety classification upgrades and plant simulator programs. Reviews involved study of process flow diagrams, P&IDs, logic diagrams, vendor technical manuals and related licensing basis documentation. He wrote a plant procedure for future component quality reviews/determination.

He has also performed environmental qualification evaluations for component materials within containment for GSI-191 studies and reviewed design basis calculations for seismic adequacy and power up-rates.

Equipment Procurement

Mr. Wiggin has written and reviewed procurement specifications for nuclear safety-related applications including:

- Evaluated EDG replacement engine fuel oil and lube oil consumption and storage requirements and developed portions of a new EDG procurement specification.
- Performed technical review of procurement specifications for EDG auxiliary components including pumps, tanks, strainers and fill stations.
- Led procurement effort for safety-related service water strainer backwash pumps. Developed pump procurement specification and collaborated with plant personnel to establish licensing criteria, performance requirements and debris tolerance characteristics. Coordinated with pump vendors and testing facility for pump delivery and testing schedules.
- Evaluated potential vendors for current and future technical capability to manufacture a small modular reactor design. Considered nuclear project history, ability to expand current capabilities, market position and personnel qualifications.

Commercial Grade Dedication & Inspection

Mr. Wiggin has completed several commercial grade dedication (CGD) projects and is a certified ANSI Level II Mechanical Inspector.

He led a time-critical CGD effort of a wire replacement order and has inspected various components for CGD efforts, including a large order of high pressure fuel injection lines for replacement and spares on four EDGs. He has developed CGD plans, inspection procedures, test

procedures, acceptance records, inspection records and non-conformance reports.

He has been a client representative for factory acceptance testing as well as a manufacturing expediter, ensuring high quality while meeting customer schedule demands.

Motor-Operated Valves
Mr. Wiggin has performed design-basis valve set-point calculations for safety-related motor-operated valves (MOVs) in critical systems such as safety injection, containment spray and reactor heat removal. He has experience using the EPRI Performance Prediction Methodology (PPM) and plant-specific, proprietary MOV analysis software.

He has performed analyses for gate, globe and butterfly valves and evaluated gate valves for pressure-locking and thermal binding effects as well as the newly discovered disc-pinching effect.

Power Plant Procedures & Modifications
Mr. Wiggin has written and revised procedures for power plant operations and has experience with design, review, testing and implementation of major plant modification projects.

He has written and reviewed calculations and technical reports in support of engineering change (EC) packages and performed technical reviews of ECs for design basis set-point changes, power up-rates, new installations and compensatory measures for regulatory compliance.

Life Cycle Management
Mr. Wiggin has performed reviews of individual components (reactor coolant pump bonnet bolts) and complete systems (emergency power) for the purpose of evaluating ability to meet the licensed design life and for license extension analyses.

These reviews included analyzing current component conditions, maintenance practices, management commitments to plant sustainability and ease of procedure use. Provided recommendations for future maintenance based on industry and regulatory guidance.

EDUCATION

Pennsylvania State University, B.S. in Aerospace Engineering, 2005

Professional Engineer license granted 6/2012

QUALFICATION AND TRAINING

Seismic Qualification Utility Group (SQUG) course for Seismic Capability Engineers, as defined by the NRC's Unresolved Safety Issue (USI) A-46 Program, 2012

EPRI Seismic Walkdown Engineer (SWE) training, 2012

PUBLICATIONS

Humphrey, Amie N. et al., "Debris Laden Backwash Pump Performance Evaluation," *Proceedings of the ASME 2011 Power Conference*, Denver, Colorado, July 12-14, 2011, ASME.

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Certificate of Completion

James Wiggin

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

July 3, 2012
Date

Caroline S. Schlaseman, P.E.
Instructor

MPR ASSOCIATES INC. ENGINEERS

Caroline S. Schlaseman, P.E.

EXPERIENCE SUMMARY

Since joining MPR in 1981, Ms. Schlaseman has performed a broad spectrum of technical work, including work in her primary area of expertise, structural mechanics. This work includes supervisory and management responsibilities in several areas, including projects for existing U.S. commercial and DOE nuclear plants, new-build U.S. nuclear power plants, fossil-fueled power plants, and non-power generation clients.

ACCOMPLISHMENTS SUMMARY

Project Management

Managed several conceptual design projects for a 2 unit BWR, including alternatives analysis and conceptual design for upgrading the feedwater heater level controls, modifying the turbine supervisory instrumentation, and resolving a dozen operational problems with the condensate demineralizer system.

Managed a task to redesign a BWR drywell penetration to ASME Code Class MC requirements, including Code Design Report and other supporting calculations. The task was performed during a four-day critical path period with no advance planning.

Managed test program to re-qualify packages used to transport radioactive sources under the rules for normal and accident conditions specified in 10CFR71 for Type B Transport packages. The project included preparation of initial package assessments to select impact test orientations predicted to inflict the greatest damage, test plan preparation and response to NRC questions, test report and final Safety Analysis Report preparation.

Managed project to confirm that small-bore piping in an older BWR meets its code requirements for deadweight, seismic and thermal loadings. Developed screening criteria and performed walkdowns of samples of piping and tubing in nine safety-related system, including piping inside the drywell. Supervised finite element piping analyses of lines that did not meet screening criteria.

Managed tasks to modify the design and perform structural code evaluations of two valve types used in shipboard nuclear plant applications.

Coordinated and participated in seismic adequacy walkdowns and evaluations of approximately 600 equipment items required for safe shutdown of a single-unit BWR. Coordination of these walkdowns included scheduling, tracking, and interfacing with outage management, health physics, craft support, QA, and the client's project engineer.

Responsible for seismic and thermal cycling test program to qualify three sizes of solenoid operated valves intended for nuclear service.

U.S. New-Build Nuclear Plants

Supported licensing of a 2-unit ABWR in the U.S. by writing portions of a significant revision to a Combined License (COL) application, responding to U.S. NRC Requests for Additional Information (RAIs), meeting with the NRC to resolve technical questions, and making presentations to the NRC's Advisory Committee on Reactor Safeguards (ACRS).

Member of NEI Construction Inspection Program (CIP) ITAAC Task Force, which meets periodically with NRC to establish processes for addressing ITAAC provisions in 10 CFR Part 52. Contributing author for NEI 08-01.

Structural Design and Analysis

Performed ASME Code Case evaluations, including potential flaw growth due to fatigue and evaluation of weld shrinkage, to support a weld overlay repairs for BWR recirc piping and a heat exchanger nozzle. Prepared report providing the technical basis for the submittal to the NRC.

Analyzed stresses in piping subjected to hydrodynamic loadings generated within a BWR toroidal suppression chamber during a postulated LOCA. Evaluated impact of replacement in-torus strainer volume and mass on piping, nozzle and transition stresses.

Performed thermal and stress analysis of a PWR primary system bolted-flange connection to evaluate the leak tightness of existing and proposed designs.

Performed leak-before-break failure analysis for selected piping systems under normal, seismic, and accident loading conditions.

Designed supports and provided field support for installation of a new high temperature and pressure tubing system during a forced outage at a BWR. Installation of the new tubing system was required before the BWR could be brought back on line.

Designed hardware modifications to piping branch connections and pipe supports, in accordance with ASME and AISC Code criteria.

Nuclear Plant Design Basis
Prepared the topical design criteria document for seismic classification of structures, systems, and components for an older BWR's design basis reconstitution program. Prepared detailed scope/plan document for nonseismic external events (e.g., flooding) design criteria document, and independently reviewed this document prepared by others. Evaluated current design requirements for seismic, flooding, tornado and other extreme external events, and the effect of these requirements on older, operating nuclear units. Participated in an NRC safety system functional inspection audit of a BWR, including preparation of calculations to document the design basis of audited systems. Researched and documented an older plant's sources, indexes, and methodologies for retrieval of design basis information by engineers.

License Renewal and Material Condition Assessments
Developed the approach and managed a comprehensive aging management assessment of an older DOE test reactor.

Assessed the adequacy of a PWR's existing programs to manage the effects of potential age-related degradation mechanisms on component supports within the scope of license renewal.

Performed inspections and evaluations of the material condition of auxiliary equipment in fossil-fueled generating stations as part of material condition/life extension studies.

BWR Suppression Pool Suction Strainers
Performed the evaluation of options for resolving NRC Bulletin 96-03 issues for an operating BWR, including scoping calculations for debris source term and debris transport, analyses to evaluate the impact of the postulated debris on the ECC system components entering the existing piping at the torus suction, scoping stress analyses for possible new suction strainer impact on penetration locations, in accordance with Mark I criteria, and cost benefit evaluations for each of the candidate options.

Performed evaluations for another operating plant to determine the maximum size and weight replacement strainers that could be installed without exceeding Mark I stress criteria for torus nozzle penetrations, transitions, and attached piping. Strainers with significantly more surface area were successfully installed based on these analyses.

Nuclear Plant Seismic Adequacy Assessment (USI A-46)
Performed seismic adequacy walkdowns of several hundred mechanical and electrical equipment items at two BWRs, and at a two-unit PWR. Work was performed in accordance with the NRC-approved Generic Implementation Procedure (GIP), and included screening walkdowns and seismic capacity calculations for equipment anchorages.

Supported seismic relay evaluations at a BWR by assisting in establishment of appropriate seismic demands for relays mounted in a variety of enclosures, e.g., control room panels and switchgear.

Primary author of USI A-46 Seismic Evaluation Reports for three plants' NRC submittals.

Co-instructor for Seismic Qualification Utility Group (SQUG) training course for performing equipment screening walkdowns in accordance with the GIP.

EDUCATION

Duke University, B.S. Civil/Structural Engineering (Magna Cum Laude), 1981

REGISTRATION

Registered Professional Engineer, Commonwealth of Virginia

OTHER

Co-Principal Investigator, Electric Power Research Institute (EPRI) document 1025286, "Seismic Walkdown Guidance: For Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic," EPRI, Palo Alto, CA: 2012.

Successfully completed the Seismic Qualification Utility Group (SQUG) course for Seismic Capability Engineers, as defined by the NRC's Unresolved Safety Issue (USI) A-46 Program, 1993, and EPRI Seismic Walkdown Engineer (SWE) training, 2012.

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Certificate of Completion

Caroline Schlaseman

Training on Near Term Task Force Recommendation 2.3 - Plant Seismic Walkdowns

June 21, 2012
Date

R.P. Kassawara
Robert K. Kassawara
EPRI Manager,
Structural Reliability & Integrity

MPR ASSOCIATES INC. ENGINEERS

Patrick J. Butler, P.E.

EXPERIENCE SUMMARY

1986 – present MPR Associates, Inc.

Since joining MPR in 1986, Mr. Butler has acquired experience in engineering related to nuclear and fossil electrical generating facilities including project management, analysis, design, and economic evaluation. Specific areas of work include design and on-site support of major modifications and testing, stress analysis, controls, thermal hydraulics, seismic engineering, and machine design as described below:

ACCOMPLISHMENTS SUMMARY

Equipment Seismic Qualification

Developed guidelines and procedures for the Seismic Qualification Utility Group (SQUG) for using the Generic Implementation Procedure (GIP) for assessing the seismic adequacy of new and replacement equipment installed in Unresolved Safety Issue A-46 power plants. Involved in development of licensing guidelines for incorporation of the GIP Methodology into USI A-46 Plants. Developed and taught course for SQUG training Seismic Capability Engineers (SCE) in used of GIP for new and replacement equipment. Has received SQUG training to be certified as a SCE. Performed seismic qualification evaluations for control room equipment modifications in accordance with IEEE Standard 344-1975, including analyses of several modified equipment cabinets, as well as development and documentation of a detailed analysis procedure. Involved in project to develop experience-based seismic qualification methodology for select equipment types within Advanced Light Water Reactors. Performed equivalent static and response spectrum analysis for numerous replacement ASME Code Section III components for nuclear plants. Compared the ANCHOR and EBAC equipment anchorage seismic evaluation computer codes which included performing example evaluations and comparing code algorithms. Prepared procedure for evaluation and resolution of seismic licensing basis violations discovered during USI A-46 reviews. Assisted walkdown engineers in SQUG USI A-46 pilot plant assessment by performing anchorage qualification calculations and equipment seismic evaluations. Has also performed finite element dynamic analyses of piping systems.

BWR Reactor Internals Repairs

Lead MPR Engineer responsible for design and analysis of shroud components, development of installation requirements, interface with installation vendor and on-site support of installation of the MPR Shroud Repair Design at Oyster Creek in 1994, FitzPatrick in 1995 and Vermont Yankee in 1996, Hamaoka 3 in 2005 and Hamaoka 4 in 2006. The repairs, while not N-stamped were designed to meet the requirements of the ASME Boiler and Pressure Vessel Design Code, Subsection NG. Specific responsibilities included design of repair hardware, analysis of the effect of the repair on the core spray piping, development of the installation specification for the repair, development of the installation process with the installation vendor, oversight of installation tooling development and qualification and lead MPR site engineer supporting installation of the repair. Lead MPR Engineer responsible for design of repairs for BWR Core Spray Piping inside vessels at Vermont Yankee and at Brunswick Unit 2. Awarded 5 U.S. Patents for repair hardware and tooling associated with BWR reactor vessel internals repairs.

ASME Code Section III Design and Analysis

Lead MPR Engineer responsible for interface with N-Stamp holding fabrication partner. Prepared and certified design specifications and ASME Code Design Reports for numerous Section III replacement vessels, heat exchangers, pump blocks, filter housings and strainers to support fabrication partner. Responsible for preparation and certification of ASME Code Section III design specifications for replacement once-through steam generators and attached hot leg piping and elbows for utility client.

Decay Heat Removal Valve Repair

Lead MPR engineer responsible and project manager for design and analysis of a valve modification involving welding of a canopy over a leaking pressure seal bonnet to create a new ASME Code pressure boundary. The modification involved ASME Section III, Subsection NB analyses of the canopy and adjacent valve body and bonnet areas that the canopy was welded. In addition, MPR performed an extensive Section XI reconciliation of ASME Section III, Subsection NB to the code of construction for the valve. MPR produced the fabrication drawings for the canopy and performed the finite element analysis of the canopy, valve bonnet and body, providing all deliverables on time and on budget. The modification was implemented during a forced

outage this spring. The innovative approach implemented in this modification allowed the utility to repair the valve with the decay heat system in-service. Alternate repair options involving rework or replacement of the valve would have required complete core off load. The utility estimated that implementation of the innovative canopy modification saved them on the order of $10 million.

Three Mile Island Defueling and Sample Removal
Involved in design, testing and in-vessel use of special tooling for removal of fuel assemblies from the damaged Three Mile Island Unit 2 reactor vessel. Also was involved in an NRC project to remove metallurgical samples from bottom head of the Three Mile Island Unit 2 reactor vessel. Specific activities included tool design and fabrication supervision, qualification testing, personnel training and supervision of on-site sampling activities. Acted as lead engineer responsible for two sampling tool systems and was responsible for shift sampling operations in the support of the Project Manager. During thirty days of in-vessel activities, thirty-one samples were removed for NRC evaluation. The project was completed on schedule and within fixed cost budget limits. Assisted the Smithsonian Institute in developing an exhibit depicting the sample removal project which is included in the "Science in American Life" exhibit in the National Museum of American History.

Vessel Penetration Repair and Analysis
Developed and implemented hydrostatic testing program for a mechanical seal developed as a contingency repair for damaged BWR reactor vessel control rod drive penetrations. Specific tasks included test plan development, re-design of seal components, and design, fabrication management and testing of seal installation tooling.

Component Design Basis Inspection Support
Lead MPR Engineer responsible for providing support for NRC Component Design Basis Inspections. Mr. Butler has managed several teams of MPR engineers involved in performing focused area self assessments in preparation of the CDBI inspection as well as teams providing support during the actual inspection. Mr. Butler has been the lead MPR engineer for six inspections for three different nuclear plants.

EDUCATION

Virginia Polytechnic Institute and State University, B.S. Mechanical Engineering, 1986

PUBLICATIONS

"GIP Methodology for New and Replacement Equipment and Parts," with S. J. Eder and R. P. Kassawara presented at the Fifth Symposium on Current Issues Related to Nuclear Power Plant Structures Equipment and Piping, Orlando, FL: December 14-16, 1994

"Application of the GIP Methodology for Demonstrating Seismic Adequacy of New and Replacement Equipment and Parts In USI A-46 Plants," with S. J. Eder and R. P. Kassawara presented at the 1994 ASME Pressure Vessels and Piping Conference, Minneapolis, MN: June 19 23, 1994

"Seal Enclosure Modification for Crystal River Unit 3 Decay Heat Removal Valve DHV-3," with Andrew Dewhurst to be presented at the 2001 EPRI Valve Symposium, Baltimore, MD, August 14-16, 2001

REGISTRATIONS

Registered Professional Engineer, State of Virginia, (Registration Number 23815)

Registered Professional Engineer, State of Kansas (Registration Number 18757)

PATENTS

"Method for Detecting Changes in Preload in a Tie Rod Installed as Part of a Core Shroud Repair in a Boiling Water Reactor, " U.S. Patent No. 5,589,640

"Method of Preventing Separation of Feedwater Sparger End Bracket Assemblies," U.S. Patent No. 7,505,546.

"Apparatus and Method for Mechanically Reinforcing the Welds Between Riser Pipes and Riser Braces in Boiling Water Reactors," U.S. Patent 7,185,798.

"Apparatus for Detecting Changes in Preload on a Tie Rod Installed as Part of a Core Shroud Repair in Boiling Water Reactors," U.S. Patent 5,809,100.

"Clamp for Feedwater Sparger End Bracket Assemblies and Method of Preventing Separation of Feedwater End Bracket Assemblies," U.S. Patent 7,492,851

B
Equipment Lists

The following documents are included in this appendix:

- Base List (95 pages)
- SWEL Signature Page
- Table B-1: SWEL for Unit 3
- Table B-2: SWEL for Unit 0 (common)
  Note that there are no items in the SWEL 2 for Peach Bottom Unit 3.
- Table B-3: Deferred to RFO or Electrical Bus Outage: Inaccessible or Electrical Safety Concern

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 2102	0 N/A PASSIVE	16A-23205A CHK-2-16A-23205A	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-2-2-071A	M-351, SHT 1	D/W2-27 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 2107	0 N/A PASSIVE	16A-23205B CHK-2-16A-23205B	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-2-2-071B	M-351, SHT 1	D/W2-29 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 2112	0 N/A PASSIVE	16A-23205C CHK-2-16A-23205C	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-2-2-071C	M-351, SHT 1	D/W2-27 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 2123	0 N/A PASSIVE	16A-23205G CHK-2-16A-23205G	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-2-2-071G	M-351, SHT 2	D/W2-35 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 2132	0 N/A PASSIVE	16A-23205K CHK-2-16A-23205K	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-2-2-071K	M-351, SHT 2	D/W2-34 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	-
1 2 3134	0 N/A PASSIVE	2-06-096B CHK-2-06-96B	RCIC	FEEDWATER CHECK VALVE LOOP B OUTER	M-351, SHT 2	R2-30 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	-
1 2 4208	0 N/A PASSIVE	2-10-177 CHK-2-10-177	RHR-B	HIGH PRESSURE SERVICE WATER TO RHR CROSSTIE CHECK VALVE	M-315, SHT 1	R2-6 091 Reactor Bldg - U2	CLOSED CLOSED	N/A N/A	-
2 2 4116	0 N/A PASSIVE	2-10-184A CHK-2-10-184A	RHR-A	RHR PRESSURING LINE INNER CHECK VALVE TO RHR LOOP A	M-361, SHT 1	R2-24 135 Reactor Bldg - U2	CLOSED CLOSED	N/A N/A	-
1 2 4215	0 N/A PASSIVE	2-10-184B CHK-2-10-184B	RHR-B	RHR PRESSURING LINE INNER CHECK VALVE TO RHR LOOP B	M-361, SHT 2	R2-26 135 Reactor Bldg - U2	CLOSED CLOSED	N/A N/A	-
2 4306	0 N/A PASSIVE	2-10-48A CHK-2-10-48A	RHR-C 3	RHR PUMP 2AP035 DISCHARGE CHECK VALVE	M-361, SHT 1	R2-5 091 Reactor Bldg - U2	CLOSED OPERABLE	N/A N/A	-
1 2 4407	0 N/A PASSIVE	2-10-48B CHK-2-10-48B	RHR-D 3	RHR PUMP 2BP035 DISCHARGE CHECK VALVE	M-361, SHT 2	R2-6 091 Reactor Bldg - U2	CLOSED OPERABLE	N/A N/A	-
2 2 4110	0 N/A PASSIVE	2-10-48C CHK-2-10-48C	RHR-A	RHR PUMP 2CP035 DISCHARGE CHECK VALVE	M-361, SHT 1	R2-7 091 Reactor Bldg - U2	CLOSED OPERABLE	N/A N/A	-
1 2 4210	0 N/A PASSIVE	2-10-48D CHK-2-10-48D	RHR-B	RHR PUMP 2DP035 DISCHARGE CHECK VALVE	M-361, SHT 2	R2-8 091 Reactor Bldg - U2	CLOSED OPERABLE	N/A N/A	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 2103	0 N/A PASSIVE	2-16-257A CHK-2-16-257A	SRV	INSTR N2 CHECK VALVE TO RV-2-2-071A	M-351, SHT 1	D/W2-27 154 Drywell - U2	OPERABLE CLOSED	N/A N/A	-
3 2 2108	0 N/A PASSIVE	2-16-257B CHK-2-16-257B	SRV	INSTR N2 CHECK VALVE TO RV-2-2-071B	M-351, SHT 1	D/W2-29 154 Drywell - U2	OPERABLE CLOSED	N/A N/A	-
3 2 2113	0 N/A PASSIVE	2-16-257C CHK-2-16-257C	SRV	INSTR N2 CHECK VALVE TO RV-2-2-071C	M-351, SHT 1	D/W2-26 154 Drywell - U2	OPERABLE CLOSED	N/A N/A	-
3 2 2124	0 N/A PASSIVE	2-16-257G CHK-2-16-257G	SRV	INSTR N2 CHECK VALVE TO RV-2-2-071G	M-351, SHT 2	D/W2-35 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 2133	0 N/A OPERABLE	2-16-257K CHK-2-16-257K	SRV	INSTR N2 CHECK VALVE TO RV-2-2-071K	M-351, SHT 2	D/W2-34 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	-
2 2 5518	0 N/A PASSIVE	2-32-502A CHK-2-32-502A	HPSW	HPSW 2AP042 DISCHARGE CHECK VALVE	M-315, SHT 1	P/H-6 111 Pump House	OPERABLE OPERABLE	N/A N/A	-
1 2 5520	0 N/A PASSIVE	2-32-502B CHK-2-32-502B	HPSW	HPSW 2BP042 DISCHARGE CHECK VALVE	M-315, SHT 1	P/H-6 111 Pump House	OPERABLE OPERABLE	N/A N/A	-
2 2 5522	0 N/A PASSIVE	2-32-502C CHK-2-32-502C	HPSW	HPSW 2CP042 DISCHARGE CHECK VALVE	M-315, SHT 1	P/H-6 111 Pump House	OPERABLE OPERABLE	N/A N/A	-
1 2 5524	0 N/A PASSIVE	2-32-502D CHK-2-32-502D	HPSW	HPSW 2DP042 DISCHARGE CHECK VALVE	M-315, SHT 1	P/H-6 111 Pump House	OPERABLE OPERABLE	N/A N/A	-
3 2 5563	0 N/A PASSIVE	2-33-514 CHK-2-33-514	ESW	SERVICE WATER TO ESW CROSS TIE CHECK VALVE	M-315, SHT 5	T2-45 116 Turbine Bldg - U2	N/A CLOSED	N/A N/A	-
3 2 1100	0 S ACTIVE	2-3A-13 U2 HCU 02-19	CRD 1	HYDRAULIC CONTROL UNITS, TYPICAL OF 185	M-357, SHT 1	R2-24 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
1 2 3233	0 N/A PASSIVE	2-6-96A CHK-2-06-96A	HPCI	FEEDWATER CHECK VALVE LOOP A OUTER	M-351, SHT 1	R2-30 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	-
2 2 4100	0 S PASSIVE	2AS769 2AS769	RHR-2A	RHR PP 2AP035 SUCTION STRAINER	M-361, SHT 1	Torus 111 Torus Proper - U2	OPERABLE OPERABLE	N/A N/A	- M-361, M-4578,

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 2 4200	0 S PASSIVE	2BS769 2BS769	RHR-2B	RHR PP 2BP035 SUCTION STRAINER	M-361, SHT 2	Torus 111 Torus Proper - U2	OPERABLE OPERABLE	N/A N/A	- M-361, M-4578,
2 2 4300	0 S PASSIVE	2CS769 2CS769	RHR-2C 3	RHR PP 2CP035 SUCTION STRAINER	M-361, SHT 1	Torus 111 Torus Proper - U2	OPERABLE OPERABLE	N/A N/A	- M-361, M-4578,
1 2 4400	0 S PASSIVE	2DS769 2DS769	RHR-2D 3	RHR PP 2DP035 SUCTION STRAINER	M-361, SHT 2	Torus 111 Torus Proper - U2	OPERABLE OPERABLE	N/A N/A	- M-361, M-4578,
2 2 4118/2211	0 S PASSIVE	AO2-10-46A AO-2-10-046A	RHR-A	RHR LOOP A CHECK VALVE	M-361, SHT 1	D/W2-21 134 Drywell - U2	CLOSED OPERABLE	N/A N/A	- M-1-H-21-7
1 2 4217	0 S PASSIVE	AO2-10-46B AO-2-10-046B	RHR-B	RHR LOOP B CHECK VALVE	M-361, SHT 2	D/W2-16 134 Drywell - U2	CLOSED OPERABLE	N/A N/A	- M-1-H-21-7
3 2 2214	0 N/A PASSIVE	AO2-14-013A AO-2-14-013A	CS	CORE SPRAY LOOP A CHECK VALVE	M-362, SHT 1	D/W2-21 134 Drywell - U2	CLOSED CLOSED	N/R N/R	- -
3 2 2215	0 N/A PASSIVE	AO2-14-013B AO-2-14-013B	CS	CORE SPRAY LOOP B CHECK VALVE	M-362, SHT 1	D/W2-16 134 Drywell - U2	CLOSED CLOSED	N/R N/R	- -
1 2 3232	0 S PASSIVE	AO2-23-018 AO-2-23-018	HPCI	HPCI DISCHARGE CHECK VALVE	M-365, SHT 1	R2-30 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- Vendor 16097-02
3 2 4108, 4207	0 N/A PASSIVE	MO2-10-020 MO-2-10-020	RHR-A 11	RHR LOOPS A/B X-TIE	M-361, SHT 1	R2-93 116 Reactor Bldg - U2	CLOSED CLOSED	N/A N/A	- -
2 2 4111	0 N/A PASSIVE	MO2-10-033 MO-2-10-033	RHR-A 11	HEAD SPRAY OUTBOARD ISOLATION VALVE	M-361, SHT 1	R2-33 165 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -
3 2 5631	0 R PASSIVE	MO2-48-2213 MO-2-33-2213	ESW	UNIT 2 ESW PUMP SLUICE GATE	M-330	S/H-4 116 Screen House	OPEN OPEN	N/R N/R	- -
3 2 6105	0 S ACTIVE	PCV-8917A PCV-2-16A-8917A	BACKUP INST N2	NITROGEN PRESS CTRL VALVE FOR BACKUP SUPPLY TO ADS	M-333, SHT 1	R2-22 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
3 2 6106	0 S ACTIVE	PCV-8917B PCV-2-16A-8917B	BACKUP INST N2	NITROGEN PRESS CTRL VALVE FOR BACKUP SUPPLY TO ADS	M-333, SHT 1	R2-22 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -

TRAIN / Unit / Line No	SQUG CI / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
3 2 6107	0 S ACTIVE	PCV-8917C PCV-2-16A-8917C	BACKUP INST N2	NITROGEN PRESS CTRL VALVE FOR BACKUP SUPPLY TO ADS	M-333, SHT 1	R2-22 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
1 2 3206	0 N/A PASSIVE	PSD2-23-006 PSD-2-23-006	HPCI	HPCI TURBINE EXHAUST RUPTURE DISC	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
1 2 3220	0 S PASSIVE	SUCTION STRAINER-2HPCI	HPCI	HPCI SUCTION STRAINER	M-365, SHT 1	Torus 111 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
3 2 2104	0 S ACTIVE	VRV2-2-8096A VRV-2-02-8096A	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV A	M-351, SHT 1	D/W2-26 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 2 2109	0 S ACTIVE	VRV2-2-8096B VRV-2-02-8096B	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV B	M-351, SHT 1	D/W2-29 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 2 2114	0 S ACTIVE	VRV2-2-8096C VRV-2-02-8096C	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV C	M-351, SHT 1	D/W2-26 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 2 2116	0 S ACTIVE	VRV2-2-8096D VRV-2-02-8096D	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV D	M-351, SHT 1	D/W2-27 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 2 2118	0 S ACTIVE	VRV2-2-8096E VRV-2-02-8096E	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV E	M-351, SHT 1	D/W2-29 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 2 2120	0 S ACTIVE	VRV2-2-8096F VRV-2-02-8096F	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV F	M-351, SHT 1	D/W2-29 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 2 2125	0 S ACTIVE	VRV2-2-8096G VRV-2-02-8096G	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV G	M-351, SHT 2	D/W2-35 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 2 2127	0 S ACTIVE	VRV2-2-8096H VRV-2-02-8096H	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV H	M-351, SHT 2	D/W2-34 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 2 2129	0 S ACTIVE	VRV2-2-8096J VRV-2-02-8096J	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV J	M-351, SHT 2	D/W2-32 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 2 2134	0 S ACTIVE	VRV2-2-8096K VRV-2-02-8096K	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV K	M-351, SHT 2	D/W2-34 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 2136	0 S ACTIVE	VRV2-2-8096L VRV-2-02-8096L	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV L	M-351, SHT 2	D/W2-32 158 Drywell - U2	OPERABLE OPERABLE	N/A N/A	- M120-75-1
1 2 3215	0 N/A PASSIVE	VRV2-23C-140A VRV-2-23C-140A	HPCI	HPCI TURBINE EXHAUST TO, TORUS VACUUM RELIEF VALVE	M-365, SHT 1	R2-92 116 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
1 2 3216	0 N/A PASSIVE	VRV2-23C-140B VRV-2-23C-140B	HPCI	HPCI TURBINE EXHAUST TO, TORUS VACUUM RELIEF VALVE	M-365, SHT 1	R2-92 116 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
1 2 3217	0 N/A PASSIVE	VRV2-23C-140C VRV-2-23C-140C	HPCI	HPCI TURBINE EXHAUST TO, TORUS VACUUM RELIEF VALVE	M-365, SHT 1	R2-92 116 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
1 2 3218	0 N/A PASSIVE	VRV2-23C-140D VRV-2-23C-140D	HPCI	HPCI TURBINE EXHAUST TO, TORUS VACUUM RELIEF VALVE	M-365, SHT 1	R2-92 116 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
1 2 3207	0 N/A PASSIVE	VRV2-23C-4998A VRV-2-23C-4998A	HPCI	HPCI TURBINE EXHAUST VACUUM, RELIEF VALVE	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	CLOSED CLOSED	N/A N/A	-
1 2 3208	0 N/A PASSIVE	VRV2-23C-4998B VRV-2-23C-4998B	HPCI	HPCI TURBINE EXHAUST VACUUM RELIEF VALVE	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	CLOSED CLOSED	N/A N/A	-
3 2 8000	1 S ACTIVE	20B36 E124-R-C (20B36)	EPS-2A	480 V REACTOR AREA EL. 165' MCC 20B36 (E124-R-C)	E-1615	R2-41 165 Reactor Bldg - U2	ENERGIZED ENERGIZED	20B1013 -	-
3 2 8000	1 S ACTIVE	20B37 E224-R-B (20B37)	EPS-2B	480 V REACTOR AREA EL. 165' MCC 20B37 (E224-R-B)	E-1615	R2-23 135 Reactor Bldg - U2	ENERGIZED ENERGIZED	20B1113 -	-
3 2 8000	1 S ACTIVE	20B38 E324-R-B (20B38)	EPS-2C	480 V RADWASTE AREA EL. 135' MCC 20B38 (E324-R-B)	E-1617	R2-29 135 Reactor Bldg - U2	ENERGIZED ENERGIZED	20B1213 -	-
3 2 8000	1 S ACTIVE	20B39 E424-W-A (20B39)	EPS-2D	480 V RADWASTE AREA EL. 116' MCC 20B39 (E424-W-A)	E-1617	T2-44 116 Turbine Bldg - U2	ENERGIZED ENERGIZED	20B1313 -	-
3 2 8000	1 S ACTIVE	20B59 E124-T-B (20B59)	EPS-2A	480 V TURBINE AREA EL. 135' MCC 20B59 (E124-T-B)	E-1615	T2-71 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	20B1014 -	-
3 2 8000	1 S ACTIVE	20B60 E224-T-B (20B60)	EPS-2B	480 V TURBINE AREA EL. 135' MCC 20B60 (E224-T-B)	E-1615	T2-71 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	20B1114 -	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8213	1 S ACTIVE	20D11 2DB-R-B	EPS-2B	(20D011) RX BUILDING DC MOTOR CONTROL CENTER	E-26, SHT 1	R2-26 135 Reactor Bldg - U2	ENERGIZED ENERGIZED	28D18 -	28D18 -
3 2 8000	2 S ACTIVE	20B10 20B010	EPS-2A	480 V BUS E124	E-1615	R2-41 165 Reactor Bldg - U2	ENERGIZED ENERGIZED	20X30 -	20B1012 -
3 2 8000	2 BR PASSIVE	20B1012 E-73 (1012)	EPS-2A	BREAKER TO E124 480 V BUS (LC20B10) 20B10	E-1615	R2-41 165 Reactor Bldg - U2	CLOSED CLOSED	20B10 -	- -
3 2 8000	2 BR PASSIVE	20B1013 E124(1013)	EPS-2A	BREAKER TO 480 V MCC 20B36(E124-R-C) 20B10	E-1615	R2-41 165 Reactor Bldg - U2	CLOSED CLOSED	20B10 -	- -
3 2 8000	2 BR PASSIVE	20B1014 E124(1014)	EPS-2A	BREAKER TO 480 V MCC 20B59 (E124-T-B) 20B10	E-1615	R2-41 165 Reactor Bldg - U2	CLOSED CLOSED	20B10 -	- -
3 2 8000	2 BR PASSIVE	20B1021 E-67 (1021)	EPS-2A	BREAKER TO MCC 00B53 20B10	E-1615	R2-41 165 Reactor Bldg - U2	CLOSED CLOSED	20B10 -	- -
3 2 8000	2 BR PASSIVE	20B1022 E-124 (1022)	EPS-2A	BREAKER TO MCC 00B62 20B10	E-1615	R2-41 165 Reactor Bldg - U2	CLOSED CLOSED	20B10 -	- -
3 2 8000	2 S ACTIVE	20B11 20B011	EPS-2B	480 V BUS E224	E-1615	R2-116 165 Reactor Bldg - U2	ENERGIZED ENERGIZED	20X31 -	20B1112 -
3 2 8000	2 BR PASSIVE	20B1112 E-124 (1022)	EPS-2B	BREAKER TO E224 480 V BUS (LC20B11) 20B11	E-1615	R2-116 165 Reactor Bldg - U2	CLOSED CLOSED	20B11 -	- -
3 2 8000	2 BR PASSIVE	20B1113 E224(1113)	EPS-2B	BREAKER TO 480 V MCC 20B37 (E224-R-B) 20B11	E-1615	R2-116 165 Reactor Bldg - U2	CLOSED CLOSED	20B11 -	- -
3 2 8000	2 BR PASSIVE	20B1114 E224(1114)	EPS-2B	BREAKER TO 480 V MCC 20B60 (E224-T-B) 20B11	E-1615	R2-116 165 Reactor Bldg - U2	CLOSED CLOSED	20B11 -	- -
3 2 8000	2 BR PASSIVE	20B1122 E-224 (1122)	EPS-2B	BREAKER TO MCC 00B61 20B11	E-1615	R2-116 165 Reactor Bldg - U2	CLOSED CLOSED	20B11 -	- -
3 2 8000	2 S ACTIVE	20B12 E-324(20B12)	EPS-2C	480 V BUS E324	E-1617	R2-41 165 Reactor Bldg - U2	ENERGIZED ENERGIZED	20X32 -	20B1212 -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8000	2 BR PASSIVE	20B1212 E-324 (1212)	EPS-2C	BREAKER TO E324 480 V BUS (LC20B12) 20B12	E-1617	R2-41 165 Reactor Bldg - U2	CLOSED CLOSED	20B12 -	- -
3 2 8000	2 BR PASSIVE	20B1213 E324(1213)	EPS-2C	BREAKER TO 480 V MCC 20B38 (E324-R-B) 20B12	E-1617	R2-41 165 Reactor Bldg - U2	CLOSED CLOSED	20B12 -	- -
3 2 8000	2 BR PASSIVE	20B1221 E-324 (1221)	EPS-2C	BREAKER TO MCC 00B55 20B12	E-1617	R2-41 165 Reactor Bldg - U2	CLOSED CLOSED	20B12 -	- -
3 2 8000	2 BR PASSIVE	20B1222 E-324 (1222)	EPS-2C	BREAKER TO MCC 00B49 20B12	E-1617	R2-41 165 Reactor Bldg - U2	CLOSED CLOSED	20B12 -	- -
3 2 8000	2 S ACTIVE	20B13 E-424(20B13)	EPS-2D	480 V BUS E424	E-1617	R2-116 165 Reactor Bldg - U2	ENERGIZED ENERGIZED	20X33 -	20B1312 -
3 2 8000	2 BR PASSIVE	20B1312 E-424 (1312)	EPS-2D	BREAKER TO E424 480 V BUS (LC20B13) 20B13	E-1617	R2-116 165 Reactor Bldg - U2	CLOSED CLOSED	20B13 -	- -
3 2 8000	2 BR PASSIVE	20B1313 E424(1313)	EPS-2D	BREAKER TO 480 V MCC 20B39 (E424-W-A) 20B13	E-1617	R2-116 165 Reactor Bldg - U2	CLOSED CLOSED	20B13 -	- -
3 2 8000	2 BR PASSIVE	20B1322 E-424 (1322)	EPS-2D	BREAKER TO MCC 00B50 20B13	E-1617	R2-116 165 Reactor Bldg - U2	CLOSED CLOSED	20B13 -	- -
3 2 8100	3 S ACTIVE	20A15 20A015	EPS-2A	(20A015) EMERG AUX SWITCHGEAR	E-8	T2-171 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	20A1503 -	20A1503 -
3 2 8101	3 BR PASSIVE	20A1501 20A1501	EPS-2A	E312 BKR FROM XFMR 0BX04 20A15	E-8	T2-171 135 Turbine Bldg - U2	OPEN OPEN	20A15 20D21	- -
3 2 8102	3 BR ACTIVE	20A1503 20A1503	EPS-2A	E12 BKR FROM E1 D/G 0AG12 20A15	E-8	T2-171 135 Turbine Bldg - U2	OPEN CLOSED	0AG15 20D21	- -
3 2 8103	3 BR ACTIVE	20A1505 20A1505	EPS-2A	E124 BKR TO XFMR 20X30 20A15	E-8	T2-171 135 Turbine Bldg - U2	CLOSED OPERABLE	20A15 20D21	- -
3 2 8104	3 BR ACTIVE	20A1506 20A1506	EPS-2A	BREAKER TO A RHR PUMP 2AP35 20A15	E-8	T2-171 135 Turbine Bldg - U2	OPEN OPEN/CLOSED	20A15 20D21	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8105	3 BR ACTIVE	20A1507 20A1507	EPS-2A	BREAKER TO A HP SER WATER PUMP 2AP42 20A15	E-8	T2-171 135 Turbine Bldg - U2	OPEN CLOSED	20A15 20D21	-
3 2 8106	3 BR ACTIVE	20A1508 20A1508	EPS-2A	E212 BKR FROM XFMR 0AX04 20A15	E-8	T2-171 135 Turbine Bldg - U2	CLOSED CLOSED/OPEN	20A15 20D21	-
3 2 8200	3 S ACTIVE	20A16 E22	EPS-2B	(20A016) EMERG AUX SWITCHGEAR	E-8	T2-71 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	20A1606 -	20A1606
3 2 8201	3 BR PASSIVE	20A1601 E22 (1601)	EPS-2B	E322 BKR FROM XFMR 0BX04 20A16	E-8	T2-71 135 Turbine Bldg - U2	OPEN OPEN	20A16 2BD306	-
3 2 8202	3 BR ACTIVE	20A1602 E22 (1602)	EPS-2B	BREAKER TO B RHR PUMP 2BP35 20A16	E-8	T2-71 135 Turbine Bldg - U2	OPEN OPEN/CLOSED	20A16 20D22 2BD306	-
3 2 8204	3 BR ACTIVE	20A1605 E22 (1605)	EPS-2B	E224 BKR TO XFMR 20X31 20A16	E-8	T2-71 135 Turbine Bldg - U2	CLOSED OPERABLE	20A16 20D22 2BD306	-
3 2 8205	3 BR ACTIVE	20A1606 E22 (1606)	EPS-2B	E22 BKR FROM E2 D/G 0BG12 20A16	E-8	T2-71 135 Turbine Bldg - U2	OPEN CLOSED	0BG12 20D22 2BD306	-
3 2 8206	3 BR ACTIVE	20A1607 E22 (1607)	EPS-2B	BREAKER TO B HP SERV WATER PUMP 2BP42 20A16	E-8	T2-71 135 Turbine Bldg - U2	OPEN CLOSED	20A16 20D22 2BD306	-
3 2 8207	3 BR ACTIVE	20A1608 E22 (1608)	EPS-2B	E222 BKR FROM XFMR 0AX04 20A16	E-8	T2-71 135 Turbine Bldg - U2	CLOSED CLOSED/OPEN	20A16 2BD306	-
3 2 8300	3 S ACTIVE	20A17 E32	EPS-2C	(20A017) EMERG AUX SWITCHGEAR	E-8	T2-170 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	20A1704 -	20A1704 20A1708
3 2 8301	3 BR PASSIVE	20A1701 E32 (1701)	EPS-2C	E332 BKR FROM XFMR 0BX04 20A17	E-8	T2-170 135 Turbine Bldg - U2	OPEN OPEN	20A17 30D23	-
3 2 8302	3 BR ACTIVE	20A1702 E32 (1702)	EPS-2C	BREAKER TO C RHR PUMP 2CP35 20A17	E-8	T2-170 135 Turbine Bldg - U2	OPEN OPEN/CLOSED	20A17 30D23	-
3 2 8303	3 BR ACTIVE	20A1704 E32 (1704)	EPS-2C	E32 BKR FROM E3 D/G 0CG12 20A17	E-8	T2-170 135 Turbine Bldg - U2	OPEN CLOSED	0CG12 30D23	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8304	3 BR ACTIVE	20A1705 E32 (1705)	EPS-2C	E324 BKR TO XFMR 20X32 20A17	E-8	T2-170 135 Turbine Bldg - U2	CLOSED OPERABLE	20A17 30D23	-
3 2 8306	3 BR ACTIVE	20A1707 E32 (1707)	EPS-2C	BREAKER TO C HP SERV WATER PUMP 2CP42 20A17	E-8	T2-170 135 Turbine Bldg - U2	OPEN CLOSED	20A17 30D23	-
3 2 8307	3 BR ACTIVE	20A1708 E32 (1708)	EPS-2C	E232 BKR FROM XFMR 0AX04 20A17	E-8	T2-170 135 Turbine Bldg - U2	CLOSED CLOSED/OPEN	20A17 30D23	-
3 2 8400	3 S ACTIVE	20A18 E42	EPS-2D	(20A018) EMERG AUX SWITCHGEAR	E-8	T2-172 135 Turbine Bldg - U2	ON ON	20A1807 -	20A1807
3 2 8401	3 BR PASSIVE	20A1801 E42 (1801)	EPS-2D	E342 BKR FROM XFMR 0BX04 20A18	E-8	T2-172 135 Turbine Bldg - U2	OPEN OPEN	20A18 3DD306	-
3 2 8402	3 BR ACTIVE	20A1802 E42 (1802)	EPS-2D	BREAKER TO D RHR PUMP 2DP35 20A18	E-8	T2-172 135 Turbine Bldg - U2	OPEN OPEN/CLOSED	20A18 30D24 3DD306	-
3 2 8403	3 BR ACTIVE	20A1804 E42 (1804)	EPS-2D	BREAKER TO D HP SER WATER PUMP 2DP42 20A18	E-8	T2-172 135 Turbine Bldg - U2	OPEN CLOSED	20A18 30D24 3DD306	-
3 2 8404	3 BR ACTIVE	20A1806 E42 (1806)	EPS-2D	E424 BKR TO XFMR 20X33 20A18	E-8	T2-172 135 Turbine Bldg - U2	CLOSED OPERABLE	20A18 30D24 3DD306	-
3 2 8405	3 BR ACTIVE	20A1807 E42 (1807)	EPS-2D	E42 BKR FROM E4 D/G 0DG12 20A18	E-8	T2-172 135 Turbine Bldg - U2	OPEN CLOSED	0DG12 30D24 3DD306	-
3 2 8406	3 BR ACTIVE	20A1808 E42 (1808)	EPS-2D	E242 BKRFROM XFMR 0AX04 20A18	E-8	T2-172 135 Turbine Bldg - U2	CLOSED CLOSED/OPEN	20A18 3DD306	-
3 2 8000	4 S ACTIVE	20X133 20X133	EPS-2A	PANEL 20Y33 TRANSFORMER	E-28, SHT. 1	T2-171 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	20B59 -	-
3 2 8001	4 S ACTIVE	20X135 20X135	EPS-2C	PANEL 20Y35 TRANSFORMER	E-28, SHT 1	R2-29 135 Reactor Bldg - U2	ENERGIZED ENERGIZED	20B38 -	-
3 2 8000	4 S ACTIVE	20X150 20X150	EPS-2A	PANEL 20Y50 TRANSFORMER	E-28, SHT. 1	T2-171 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	20B36 -	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8000	4 S ACTIVE	20X30 20X030	EPS-2A	LOAD CENTER XFMR E124	E-1615	R2-41 165 Reactor Bldg - U2	ENERGIZED ENERGIZED	20A1505 -	- ABB Seis Rep
3 2 8000	4 S ACTIVE	20X31 20X031	EPS-2B	LOAD CENTER XFMR E224	E-1615	R2-116 165 Reactor Bldg - U2	ENERGIZED ENERGIZED	20A1605 -	- ABB Seis Rep
3 2 8000	4 S ACTIVE	20X32 E-1617(20X32)	EPS-2C	LOAD CENTER XFMR E324	E-1617	R2-41 165 Reactor Bldg - U2	ENERGIZED ENERGIZED	20A1705 -	- ABB Seis Rep
3 2 8000	4 S ACTIVE	20X33 E-1617(20X33)	EPS-2D	LOAD CENTER XFMR E424	E-1617	R2-116 165 Reactor Bldg - U2	ENERGIZED ENERGIZED	20A1805 -	- ABB Seis Rep
1 2 3211	5 BR ACTIVE	20K02 20K002	HPCI	HPCI GLAND SEAL CDSR VACUUM PUMP 20E33	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OFF ON	20D11 -	- -
1 2	5 BR ACTIVE	20P26 20P026	HPCI	HPCI AUXILIARY LUBE OIL PUMP 20E33	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OFF ON	20D11 -	- -
1 2 3214	5 BR ACTIVE	20P28 20P028	HPCI	HPCI GLAND SEAL CONDENSER COND PUMP 20E33	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OFF ON	20D11 -	- -
1 2 3226	5 B ACTIVE	20P33 20P033	HPCI	HPCI BOOSTER PUMP 20P38	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OFF OPERABLE	N/A N/A	- -
1 2 3227	5 S ACTIVE	20P38 20P038	HPCI	HPCI PUMP	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OFF OPERABLE	N/A N/A	- Vendor E-4707
1 2 3205	5 S ACTIVE	20S37 20S037	HPCI	"U2" HPCI TURBINE	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
2 2 4103	5 S ACTIVE	2AP35 2AP035	RHR-A	RHR PUMP A	M-361, SHT 1	R2-5 091 Reactor Bldg - U2	OFF OFF/ON	20A15 -	20A1506 M-1-H-41-2, S-1146
1 2 4203	5 S ACTIVE	2BP35 2BP035	RHR-B	RHR PUMP B	M-361, SHT 2	R2-6 091 Reactor Bldg - U2	OFF OFF/ON	20A16 -	20A1602 M-1-H-41-2, S-1146
2 2 4303	5 S ACTIVE	2CP35 2CP035	RHR-C 3	RHR PUMP C	M-361, SHT 1	R2-7 091 Reactor Bldg - U2	OFF OFF/ON	20A17 -	20A1702 M-1-H-41-2, S-1146

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 2 4403	5 S ACTIVE	2DP35 2DP035	RHR-D 3	RHR PUMP D	M-361, SHT 2	R2-8 091 Reactor Bldg - U2	OFF OFF/ON	20A18 -	20A1802 M-1-H-41-2, S-1146
2 2 5517	6 S ACTIVE	2AP42 2AP042	HPSW	HIGH PRESSURE SERVICE WATER PUMP A	M-315, SHT 1	P/H-6 111 Pump House	OFF ON	- -	20A1507 M-11-29, E8-108-1
1 2 5519	6 S ACTIVE	2BP42 2BP042	HPSW	HIGH PRESSURE SERVICE WATER PUMP B	M-315, SHT 1	P/H-6 111 Pump House	OFF ON	- -	20A1607 M-11-29, E8-108-1
1OP 2 5521	6 S ACTIVE	2CP42 2CP042	HPSW 3	HIGH PRESSURE SERVICE WATER PUMP C	M-315, SHT 1	P/H-6 111 Pump House	OFF ON	- -	20A1707 M-11-29, E8-108-1
2OP 2 5523	6 S ACTIVE	2DP42 2DP042	HPSW 3	HIGH PRESSURE SERVICE WATER PUMP D	M-315, SHT 1	P/H-6 111 Pump House	OFF ON	- -	20A1804 M-11-29, E8-108-1
3 2 2200	7 S ACTIVE	AO2-01-080A AO-2-01A-080A	MSIV	A MAIN STEAM LINE INBOARD ISOLATION VALVE	M-351, SHT 1	D/W2-18 134 Drywell - U2	OPEN CLOSED	N/A N/A	SV2-16-080A-1 SV2-16-080A-2 M-1-R-12/1,2
3 2 2202	7 S ACTIVE	AO2-01-080B AO-2-01A-080B	MSIV	B MAIN STEAM LINE INBOARD ISOLATION VALVE	M-351, SHT 1	D/W2-18 134 Drywell - U2	OPEN CLOSED	N/A N/A	SV2-16-080B-1 SV2-16-080B-2 M-1-R-12/1,2
3 2 2204	7 S ACTIVE	AO2-01-080C AO-2-01A-080C	MSIV	C MAIN STEAM LINE INBOARD ISOLATION VALVE	M-351, SHT 2	D/W2-19 134 Drywell - U2	OPEN CLOSED	N/A N/A	SV2-16-080C-1 SV2-16-080C-2 M-1-R-12/1,2
3 2 2206	7 S ACTIVE	AO2-01-080D AO-2-01A-080D	MSIV	D MAIN STEAM LINE INBOARD ISOLATION VALVE	M-351, SHT 2	D/W2-20 134 Drywell - U2	OPEN CLOSED	N/A N/A	SV2-16-080D-1 SV2-16-080D-2 M-1-R-12/1,2
3 2 2201	7 S ACTIVE	AO2-01-086A AO-2-01A-086A	MSIV	A MAIN STEAM LINE OUTBOARD ISOLATION VALVE	M-351, SHT 1	R2-30 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-16-086A-1 SV2-16-086A-2 M-1-R-12/1,2
3 2 2203	7 S ACTIVE	AO2-01-086B AO-2-01A-086B	MSIV	B MAIN STEAM LINE OUTBOARD ISOLATION VALVE	M-351, SHT 1	R2-30 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-16-086B-1 SV2-16-086B-2 M-1-R-12/1,2
3 2 2205	7 S ACTIVE	AO2-01-086C AO-2-01A-086C	MSIV	C MAIN STEAM LINE OUTBOARD ISOLATION VALVE	M-351, SHT 2	R2-30 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-16-086C-1 SV2-16-086C-2 M-1-R-12/1,2
3 2 2207	7 S ACTIVE	AO2-01-086D AO-2-01A-086D	MSIV	D MAIN STEAM LINE OUTBOARD ISOLATION VALVE	M-351, SHT 2	R2-30 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-16-086D-1 SV2-16-086D-2 M-1-R-12/1,2

TRAIN / Unit / Line No	SQUG Cl / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
3 2 1102	7 S ACTIVE	AO2-03-32A AO-2-03-032A	CRD	SCRAM DISCHARGE VOLUME INBOARD ISOLATION VENT VV	M-356, SHT 1	R2-26 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-3-32A M-1-D-11-3
3 2 1104	7 S ACTIVE	AO2-03-32B AO-2-03-032B	CRD	SCRAM DISCHARGE VOLUME INBOARD ISOLATION VENT VV	M-356, SHT 1	R2-24 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-3-32B M-1-D-11-3
3 2 1110	7 S ACTIVE	AO2-03-33 AO-2-03-033	CRD	SCRAM DISCHARGE VOLUME INBOARD ISOLATION DRAIN VV	M-356, SHT 1	R2-22 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-3-33 vendor 6-9M207-52
3 2 1106	7 S ACTIVE	AO2-03-35A AO-2-03-035A	CRD	SCRAM DISCHARGE VOLUME OUTBOARD ISOLATION VENT VV	M-356, SHT 1	R2-26 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-3-35A M-1-D-162
3 2 1108	7 S ACTIVE	AO2-03-35B AO-2-03-035B	CRD	SCRAM DISCHARGE VOLUME OUTBOARD ISOLATION VENT VV	M-356, SHT 1	R2-24 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-3-35B M-1-D-162
3 2 1112	7 S ACTIVE	AO2-03-36 AO-2-03-036	CRD	SCRAM DISCHARGE VOLUME OUTBOARD ISOLATION DRAIN VV	M-356, SHT 1	R2-22 135 Reactor Bldg - U2	OPEN CLOSED	N/A N/A	SV2-3-36 -
1 2 3204	7 B ACTIVE	HO2-23C-4512 HO-2-23C-4512	HPCI	HPCI TURBINE GOVERNOR, CONTROL VALVE 20S37	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OPEN OPERABLE	N/A N/A	- -
1 2 3203	7 B ACTIVE	HO2-23C-4513 HO-2-23C-4513	HPCI	HPCI TURBINE STOP VALVE 20S37	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OPEN OPEN	N/A N/A	SV2-23A-4543 M-1-J-20
1 2 3213	7 S PASSIVE	PCV2-23B-50 PCV-2-23-050	HPCI	HPCI COOLING WATER TO LO, COOLER AND GLAND SEAL CDSR	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
3 2 2100	7 SR ACTIVE	RV2-02-071A RV-2-02-071A	SRV 4	A SAFETY RELIEF VALVE	M-351, SHT 1	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	- M-1-R-1-12, M-1-R-5-4,
3 2 2105	7 SR ACTIVE	RV2-02-071B RV-2-02-071B	SRV 4	B SAFETY RELIEF VALVE	M-351, SHT 1	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	- M-1-R-1-12, M-1-R-5-4,
3 2 2110	7 SR ACTIVE	RV2-02-071C RV-2-02-071C	SRV 4	C SAFETY RELIEF VALVE	M-351, SHT 1	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	- M-1-R-1-12, M-1-R-5-4,
3 2 2115	7 SR ACTIVE	RV2-02-071D RV-2-02-071D	SRV 4	D SAFETY RELIEF VALVE	M-351, SHT 1	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 2117	7 SR ACTIVE	RV2-02-071E RV-2-02-071E	SRV 4	E SAFETY RELIEF VALVE	M-351, SHT 1	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
3 2 2119	7 SR ACTIVE	RV2-02-071F RV-2-02-071F	SRV 4	F SAFETY RELIEF VALVE	M-351, SHT 1	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
3 2 2121	7 SR ACTIVE	RV2-02-071G RV-2-02-071G	SRV 4	G SAFETY RELIEF VALVE	M-351, SHT 2	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	- M-1-R-1-12, M-1-R-5-4,
3 2 2126	7 SR ACTIVE	RV2-02-071H RV-2-02-071H	SRV 4	H SAFETY RELIEF VALVE	M-351, SHT 2	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
3 2 2128	7 SR ACTIVE	RV2-02-071J RV-2-02-071J	SRV 4	J SAFETY RELIEF VALVE	M-351, SHT 2	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
3 2 2130	7 SR ACTIVE	RV2-02-071K RV-2-02-071K	SRV 4	K SAFETY RELIEF VALVE	M-351, SHT 2	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	- M-1-R-1-12, M-1-R-5-4,
3 2 2135	7 SR ACTIVE	RV2-02-071L RV-2-02-071L	SRV 4	L SAFETY RELIEF VALVE	M-351, SHT 2	D/W2-27 154'-9" Drywell - U2	CLOSED OPEN/CLOSED	20D21 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
1 2 3225	7 S PASSIVE	RV2-23-034 RV-2-23B-034	HPCI	HPCI PUMP SUCTION HEADER RELIEF VALVE	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- DS-M-204/3
2 2 4107	8 N/A PASSIVE	CV2-10-2677A CV-2-10-2677A	RHR-A 8	RHR PUMP 2AP035 DISCHARGE CONTROL VALVE	M-361, SHT 1	R2-5 091 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
1 2 4406	8 N/A PASSIVE	CV2-10-2677D CV-2-10-2677D	RHR-D 3, 8	RHR PUMP 2DP035 DISCHARGE CONTROL VALVE	M-361, SHT 2	R2-8 091 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
3 2 2208	8 R PASSIVE	MO2-02-74 MO-2-01A-074	MSIV	MAIN STEAM LINES INBOARD DRAIN ISOL VALVE	M-351, SHT 1	D/W2-18 134 Drywell - U2	CLOSED CLOSED	N/R N/R	- -
1 2 3235	8 R PASSIVE	MO2-06-029A MO-2-06-029A	HPCI	FEEDWATER STOP VALVE	M-351, SHT 1	D/W2-33 154 Drywell - U2	OPEN OPEN	N/R N/R	- -
1 2 3234	8 R PASSIVE	MO2-06-038A MO-2-06-038A	HPCI	FW LONG PATH RECIRC ISOLATION VALVE	M-351, SHT 1	R2-30 135 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
2 2 4101	8 R PASSIVE	MO2-10-013A MO-2-10-013A	RHR-A	RHR PUMP 2AP035 TORUS SUCTION	M-361, SHT 1	R2-5 091 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
1 2 4201	8 R PASSIVE	MO2-10-013B MO-2-10-013B	RHR-B	RHR PUMP 2BP035 TORUS SUCTION	M-361, SHT 2	R2-6 091 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
2 2 4301	8 R PASSIVE	MO2-10-013C MO-2-10-013C	RHR-C 3	RHR PUMP 2CP035 TORUS SUCTION	M-361, SHT 1	R2-7 091 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
1 2 4401	8 R PASSIVE	MO2-10-013D MO-2-10-013D	RHR-D 3	RHR PUMP 2DP035 TORUS SUCTION	M-361, SHT 2	R2-8 091 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
2 2 4102	8 R PASSIVE	MO2-10-015A MO-2-10-015A	RHR-A	RHR PUMP 2AP035 SHUTDOWN COOLING SUCTION	M-361, SHT 1	R2-5 091 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -
1 2 4202	8 R PASSIVE	MO2-10-015B MO-2-10-015B	RHR-B	RHR PUMP 2BP035 SHUTDOWN COOLING SUCTION	M-361, SHT 2	R2-18 116 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -
2 2 4302	8 R PASSIVE	MO2-10-015C MO-2-10-015C	RHR-C 3	RHR PUMP 2CP035 SHUTDOWN COOLING SUCTION	M-361, SHT 1	R2-17 116 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -
1 2 4402	8 R PASSIVE	MO2-10-015D MO-2-10-015D	RHR-D 3	RHR PUMP 2DP035 SHUTDOWN COOLING SUCTION	M-361, SHT 2	R2-8 091 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -
2 2 4104	8A SR ACTIVE	MO2-10-016A MO-2-10-016A	RHR-A	RHR PUMP 2AP035 MINIMUM FLOW VALVE	M-361, SHT 1	R2-5 091 Reactor Bldg - U2	CLOSED OPEN/CLOSED	20B36 -	- M-1028-49
1 2 4204	8A SR ACTIVE	MO2-10-016B MO-2-10-016B	RHR-B	RHR PUMP 2BP035 MINIMUM FLOW VALVE	M-361, SHT 2	R2-6 091 Reactor Bldg - U2	CLOSED OPEN/CLOSED	20B37 -	- M-1028-49
2 2 4304	8A SR ACTIVE	MO2-10-016C MO-2-10-016C	RHR-C 3	RHR PUMP 2CP035 MINIMUM FLOW VALVE	M-361, SHT 1	R2-7 091 Reactor Bldg - U2	CLOSED OPEN/CLOSED	20B38 -	- M-1028-49
1 2 4404	8A SR ACTIVE	MO2-10-016D MO-2-10-016D	RHR-D 3	RHR PUMP 2DP035 MINIMUM FLOW VALVE	M-361, SHT 2	R2-8 091 Reactor Bldg - U2	CLOSED OPEN/CLOSED	20B39 -	- M-1028-49
3 2 2212	8 R PASSIVE	MO2-10-018 MO-2-10-018	RHR	RHR SHUTDOWN COOLING SUCT INBOARD ISOLATION VALVE	M-361, SHT 1	D/W2-17 134 Drywell - U2	CLOSED CLOSED	N/R N/R	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
2 2 4117	8A SR ACTIVE	MO2-10-025A MO-2-10-025A	RHR-A 10	RHR LOOP A INBOARD DISCHARGE VALVE	M-361, SHT 1	R2-25 135 Reactor Bldg - U2	CLOSED CLOSED/OPEN	20B36 -	- M-1-H-31-5
1 2 4216	8A SR ACTIVE	MO2-10-025B MO-2-10-025B	RHR-B 10	RHR LOOP B INBOARD DISCHARGE VALVE	M-361, SHT 2	R2-27 135 Reactor Bldg - U2	CLOSED CLOSED/OPEN	20B39 -	- M-1-H-31-5
2 2 4112	8 R PASSIVE	MO2-10-026A MO-2-10-026A	RHR-A	RHR LOOP A D/W SPRAY OUTBOARD ISOLATION VALVE	M-361, SHT 1	R2-25 135 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -
1 2 4211	8 R PASSIVE	MO2-10-026B MO-2-10-026B	RHR-B	RHR LOOP B D/W SPRAY OUTBOARD ISOLATION VALVE	M-361, SHT 2	R2-27 135 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -
2 2 4114	8A SR ACTIVE	MO2-10-034A MO-2-10-034A	RHR-A 9	RHR LOOP A FULL FLOW TEST VALVE (SUPPRESSON POOL COOLING)	M-361, SHT 1	R2-110 125 Reactor Bldg - U2	CLOSED CLOSED/OPEN	20B38 -	- M-102B-62
1 2 4213	8A SR ACTIVE	MO2-10-034B MO-2-10-034B	RHR-B 9	RHR LOOP B FULL FLOW TEST VALVE	M-361, SHT 2	R2-105 125 Reactor Bldg - U2	CLOSED OPEN	20B39 -	- M-102B-62
2 2 4113	8A SR ACTIVE	MO2-10-039A MO-2-10-039A	RHR-A 9	RHR LOOP A TORUS HEADER	M-361, SHT 1	R2-110 125 Reactor Bldg - U2	CLOSED CLOSED/OPEN	20B38 -	- M-1-H-32
1 2 4212	8A SR ACTIVE	MO2-10-039B MO-2-10-039B	RHR-B 9	RHR LOOP B TORUS HEADER	M-361, SHT 2	R2-104 125 Reactor Bldg - U2	CLOSED OPEN/CLOSED	20B39 -	- M-1-H-32
2 2 4115	8 R PASSIVE	MO2-10-154A MO-2-10-154A	RHR-A	RHR LOOP A OUTBOARD DISCHARGE VALVE	M-361, SHT 1	R2-99 116 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
1 2 4214	8 R PASSIVE	MO2-10-154B MO-2-10-154B	RHR-B	RHR LOOP B OUTBOARD DISCHARGE VALVE	M-361, SHT 2	R2-93 116 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
1 2 5516	8 R PASSIVE	MO2-10-176 MO-2-10-176	HPSW	HPSW TO RHR EMERGENCY OUTER CROSS-TIE	M-315, SHT 1	R2-6 091 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -
2 2 5512	8A SR ACTIVE	MO2-10-89A MO-2-10-089A	HPSW	RHR HX 2AE024 HPSW OUTLET VALVE	M-315, SHT 1	R2-16 116 Reactor Bldg - U2	CLOSED OPEN/CLOSED	20B36 -	- M-102B-60
1 2 5513	8A SR ACTIVE	MO2-10-89B MO-2-10-089B	HPSW	RHR HX 2BE024 HPSW OUTLET VALVE	M-315, SHT 1	R2-18 116 Reactor Bldg - U2	CLOSED OPEN/CLOSED	20B37 -	- M-102B-60

TRAIN / Unit / Line No	SQUG Cl / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
2 2 5514	8A SR ACTIVE	MO2-10-89C MO-2-10-089C	HPSW	RHR HX 2CE024 HPSW OUTLET VALVE	M-315, SHT 1	R2-17 116 Reactor Bldg - U2	CLOSED CLOSED/OPEN	20B38 -	- M-102B-60
1 2 5515	8A SR ACTIVE	MO2-10-89D MO-2-10-089D	HPSW	RHR HX 2DE024 HPSW OUTLET VALVE	M-315, SHT 1	R2-19 116 Reactor Bldg - U2	CLOSED CLOSED/OPEN	20B39 -	- M-102B-60
3 2 2209	8A SR ACTIVE	MO2-12-015 MO-2-12-015	MSIV	RWCU INLET INBOARD ISOLATION VALVE	M-354, SHT 1	D/W2-28 134 Drywell - U2	OPEN CLOSED	20B36 -	- M-102B-33
3 2 2210	8A SR ACTIVE	MO2-12-018 MO-2-12-018	MSIV	RWCU INLET OUTBOARD ISOLATION VALVE	M-354, SHT 1	R2-33 165 Reactor Bldg - U2	OPEN CLOSED	20D11 -	- M-102B-33
1 2 3202	8A SR ACTIVE	MO2-23-014 MO-2-23-014	HPCI	HPCI TURBINE STEAM SUPPLY VALVE	M-365, SHT 1	R2-13 088 Reactor Bldg - U2	CLOSED OPEN	20D11 -	- M-102B-42
1 2 3200	8 R PASSIVE	MO2-23-015 MO-2-23-015	HPCI	HPCI TURBINE STEAM LINE INBOARD ISOLATION VALVE	M-365, SHT 1	D/W2-17 134 Drywell - U2	OPEN OPEN	N/R N/R	- -
1 2 3201	8 R PASSIVE	MO2-23-016 MO-2-23-016	HPCI	HPCI TURBINE STEAM LINE OUTBOARD ISOLATION VALVE	M-365, SHT 1	R2-27 135 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
1 2 3224	8A SR ACTIVE	MO2-23-017 MO-2-23-017	HPCI	HPCI CONDENSATE STORAGE TANK SUCTION	M-365, SHT 1	R2-13 088 Reactor Bldg - U2	OPEN OPEN/CLOSED	20D11 -	- -
1 2 3231	8A SR ACTIVE	MO2-23-019 MO-2-23-019	HPCI	HPCI DISCHARGE TO FEEDWATER LINE A	M-365, SHT 1	R2-30 135 Reactor Bldg - U2	CLOSED OPEN	20D11 -	- M-102B-29-7
1 2 3229	8 R PASSIVE	MO2-23-020 MO-2-23-020	HPCI	HPCI PUMP DISCHARGE VALVE	M-365, SHT 1	R2-13 088 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
1 2 3230	8 R PASSIVE	MO2-23-021 MO-2-23-021	HPCI	HPCI FULL FLOW TEST VALVE	M-365, SHT 1	R2-4 092 Reactor Bldg - U2	CLOSED CLOSED	N/R N/R	- -
1 2 3228	8A SR ACTIVE	MO2-23-025 MO-2-23-025	HPCI	HPCI MINIMUM FLOW VALVE	M-365, SHT 1	R2-13 088 Reactor Bldg - U2	CLOSED OPEN/CLOSED	20D11 -	- M-1-J-44-4
1 2 3222	8A SR ACTIVE	MO2-23-057 MO-2-23-057	HPCI	HPCI TORUS SUCTION OUTBOARD ISOLATION VALVE	M-365, SHT 1	R2-13 088 Reactor Bldg - U2	CLOSED OPEN	20D11 -	- M-102B-33F-1

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 2 3221	8A SR ACTIVE	MO2-23-058 MO-2-23-058	HPCI	HPCI TORUS SUCTION INBOARD ISOLATION VALVE	M-365, SHT 1	R2-13 088 Reactor Bldg - U2	CLOSED OPEN	20D11 -	- M-102B-33F-1
1 2 3219	8 R PASSIVE	MO2-23C-4244A MO-2-23B-4245	HPCI 14	HPCI TURBINE EXHAUST LINE VACUUM BREAKER ISOL VALVE	M-365, SHT 1	R2-94 116 Reactor Bldg - U2	OPEN OPEN	N/R N/R	- -
3 2 5627	8A SR ACTIVE	MO2-30-2233A MO-2-30-2233A	ESW & HPSW	UNIT 2 A SLUICE GATE	M-330	S/H-4 116 Screen House	OPEN CLOSED	00B62 -	- C-316
3 2 5628	8A SR ACTIVE	MO2-30-2233B MO-2-30-2233B	ESW & HPSW	UNIT 2 B SLUICE GATE	M-330	S/H-4 116 Screen House	OPEN CLOSED	00B61 -	- C-316
3 OP 2 5538	8 SR ACTIVE	MO2-32-2344 MO-2-32-2344	HPSW 5	HPSW LOOPS 2A TO 2B CROSSTIE	M-315, SHT 1	P/H-6 111 Pump House	CLOSED CLOSED	N/R N/R	- -
3 2 5610	8A SR ACTIVE	MO2-32-2486 MO-2-32-2486	HPSW	HPSW RETURN VALVE TO DISCHARGE POND	M-330	D/G-2 121 Diesel Generator	OPEN CLOSED	00B54 -	- M-102B-125 SH5
3 2 5612	8A SR ACTIVE	MO2-32-2803 MO-2-32-2803	HPSW	HPSW RETURN VALVE TO EMERGENCY COOLING TOWER	M-330	D/G-2 121 Diesel Generator	CLOSED OPEN	00B55 -	- -
3 2 5564	8 R PASSIVE	MO2-33-2972 MO-2-33-2972	ESW & HPSW	U/2 SAFEGUARDS AND RBCW HX ISOL FROM ESW PUMP 0BP057	M-315, SHT 5	T2-45 116 Turbine Bldg - U2	OPEN OPEN	N/R N/R	- -
3 2 5633	8A SR ACTIVE	MO2-48-2804A MO-2-48-2804A	ESW & HPSW	U/2 HPSW DISCH INLET OUTER	M-330	ECT-1 114 Emergency Cooling Towers	CLOSED OPEN	00B98 -	- -
3 2 5634	8A SR ACTIVE	MO2-48-2804B MO-2-48-2804B	ESW & HPSW	U/2 HPSW BAY INLET INNER	M-330	ECT-1 114 Emergency Cooling Towers	CLOSED OPEN	00B99 -	- -
3 2 6100	8B SR ACTIVE	SV-8130A SV-2-16A-8130A	BACKUP INST N2	BACKUP NITROGEN TO ADS A SUPPLY	M-333, SHT 1	R2-23 135 Reactor Bldg - U2	DEENERGIZED ENERGIZED	20Y35 -	- -
3 2 6101	8B SR ACTIVE	SV-8130B SV-2-16A-8130B	BACKUP INST N2	BACKUP NITROGEN TO ADS B SUPPLY	M-333, SHT 1	R2-23 135 Reactor Bldg - U2	DEENERGIZED ENERGIZED	00Y03 -	- -
3 2 2216	8 BR ACTIVE	SV2-16-080A-1 SV-2-16-080A-1	MSIV	BACKUP DC SOLENOID FOR N2 SUPPLY TO AO-2-01A-080A AO2-01-080A	M-351, SHT 1	D/W2-18 134 Drywell - U2	ENERGIZED DEENERGIZED	N/R N/R	- -

TRAIN / Unit / Line No	SQUG CI / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
3	8	SV2-16-080A-2	MSIV	AC SOLENOID FOR NITROGEN SUPPLY TO AO-2-01A-080A	M-351, SHT 1	D/W2-18	ENERGIZED	N/R	-
2	BR					134			
2217	ACTIVE	SV-2-16-080A-2		AO2-01-080A		Drywell - U2	DEENERGIZED	N/R	-
3	8	SV2-16-080B-1	MSIV	BACKUP DC SOLENOID FOR N2 SUPPLY TO AO-2-01A-080B	M-351, SHT 1	D/W2-18	ENERGIZED	N/R	-
2	BR					134			
2228	ACTIVE	SV-2-16-080B-1		AO2-01-080B		Drywell - U2	DEENERGIZED	N/R	-
3	8	SV2-16-080B-2	MSIV	AC SOLENOID FOR NITROGEN SUPPLY TO AO-2-01A-080B	M-351, SHT 1	D/W2-18	ENERGIZED	N/R	-
2	BR					134			
2229	ACTIVE	SV-2-16-080B-2		AO2-01-080B		Drywell - U2	DEENERGIZED	N/R	-
3	8	SV2-16-080C-1	MSIV	BACKUP DC SOLENOID FOR N2 SUPPLY TO AO-2-01A-080C	M-351, SHT 2	D/W2-19	ENERGIZED	N/R	-
2	BR					134			
2222	ACTIVE	SV-2-16-080C-1		AO2-01-080C		Drywell - U2	DEENERGIZED	N/R	-
3	8	SV2-16-080C-2	MSIV	AC SOLENOID FOR NITROGEN SUPPLY TO AO-2-01A-080C	M-351, SHT 2	D/W2-19	ENERGIZED	N/R	-
2	BR					134			
2223	ACTIVE	SV-2-16-080C-2		AO2-01-080C		Drywell - U2	DEENERGIZED	N/R	-
3	8	SV2-16-080D-1	MSIV	BACKUP DC SOLENOID FOR N2 SUPPLY TO AO-2-01A-080D	M-351, SHT 2	D/W2-20	ENERGIZED	N/R	-
2	BR					134			
2234	ACTIVE	SV-2-16-080D-1		AO2-01-080D		Drywell - U2	DEENERGIZED	N/R	-
3	8	SV2-16-080D-2	MSIV	AC SOLENOID FOR NITROGEN SUPPLY TO AO-2-01A-080D	M-351, SHT 2	D/W2-20	ENERGIZED	N/R	-
2	BR					134			
2235	ACTIVE	SV-2-16-080D-2		AO2-01-080D		Drywell - U2	DEENERGIZED	N/R	-
1	8B	SV2-23A-4543	HPCI	HPCI TURBINE STOP VALVE REMOTE TRIP VALVE	M-366, SHT 1	R2-13	CLOSED	20D22	-
2	BR					088			
	ACTIVE	SV-2-23A-4543		20S37		Reactor Bldg - U2	OPEN	-	-
1	8B	SV2-23C-54	HPCI	HPCI TURBINE EXHAUST DRAIN POT DRAIN SOLENOID VALVE	M-366, SHT 1	R2-13	CLOSED	20D22	-
2	SR					088			
3209	ACTIVE	SV-2-23-054				Reactor Bldg - U2	OPEN	-	M-205-D-21
3	8	SV2-3-32A	CRD	INSTR AIR SOLENOID VALVE FOR AO-2-03-032A	M-356, SHT 1	R2-22	ENERGIZED	N/R	-
2	BR					135			
1103	ACTIVE	SV-2-03-032A		AO2-03-32A		Reactor Bldg - U2	DEENERGIZED	N/R	-
3	8	SV2-3-32B	CRD	INSTR AIR SOLENOID VALVE FOR AO-2-03-032B	M-356, SHT 1	R2-22	ENERGIZED	N/R	-
2	BR					135			
1105	ACTIVE	SV-2-03-032B		AO2-03-32B		Reactor Bldg - U2	DEENERGIZED	N/R	-
3	8	SV2-3-33	CRD	INSTR AIR SOLENOID VALVE FOR AO-2-03-033	M-356, SHT 1	R2-22	ENERGIZED	N/R	-
2	BR					135			
1111	ACTIVE	SV-2-03-033		AO2-03-33		Reactor Bldg - U2	DEENERGIZED	N/R	-
3	8	SV2-3-35A	CRD	INSTR AIR SOLENOID VALVE FOR AO-2-03-035A	M-356, SHT 1	R2-22	ENERGIZED	N/R	-
2	BR					135			
1107	ACTIVE	SV-2-03-035A		AO2-03-35A		Reactor Bldg - U2	DEENERGIZED	N/R	-

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 1109	8 BR ACTIVE	SV2-3-35B SV-2-03-035B	CRD	INSTR AIR SOLENOID VALVE FOR AO-2-03-035B AO2-03-35B	M-356, SHT 1	R2-22 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
3 2 1113	8 BR ACTIVE	SV2-3-36 SV-2-03-036	CRD	INSTR AIR SOLENOID VALVE FOR AO-2-03-036 AO2-03-36	M-356, SHT 1	R2-22 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
3 2 2219	8 BR ACTIVE	SV2-36-086A-1 SV-2-36B-086A-1	MSIV	BACKUP DC SOLENOID FOR I/A SUPPLY TO AO-2-01A-086A AO2-01-086A	M-351, SHT 1	R2-30 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
3 2 2220	8 BR ACTIVE	SV2-36-086A-2 SV-2-36B-086A-2	MSIV	AC SOLENOID FOR I/A SUPPLY TO AO-2-01A-086A AO2-01-086A	M-351, SHT 1	R2-30 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
3 2 2231	8 BR ACTIVE	SV2-36-086B-1 SV-2-36B-086B-1	MSIV	BACKUP DC SOLENOID FOR I/A SUPLY TO AO-2-01A-086B AO2-01-086B	M-351, SHT 1	R2-30 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
3 2 2232	8 BR ACTIVE	SV2-36-086B-2 SV-2-36B-086B-2	MSIV	AC SOLENOID FOR I/A SUPPLY TO AO-2-01A-086B AO2-01-086B	M-351, SHT 1	R2-30 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
3 2 2225	8 BR ACTIVE	SV2-36-086C-1 SV-2-36B-086C-1	MSIV	BACKUP DC SOLENOID FOR I/A SUPPLY TO AO-2-01A-086C AO2-01-086C	M-351, SHT 2	R2-30 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
3 2 2226	8 BR ACTIVE	SV2-36-086C-2 SV-2-36B-086C-2	MSIV	AC SOLENOID FOR I/A SUPPLY TO AO-2-01A-086C AO2-01-086C	M-351, SHT 2	R2-30 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
3 2 2237	8 BR ACTIVE	SV2-36-086D-1 SV-2-36B-086D-1	MSIV	BACKUP DC SOLENOID FOR I/A SUPPLY TO AO-2-01A-086D AO2-01-086D	M-351, SHT 2	R2-30 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
3 2 2238	8 BR ACTIVE	SV2-36-086D-2 SV-2-36B-086D-2	MSIV	AC SOLENOID FOR I/A SUPPLY TO AO-2-01A-086D AO2-01-086D	M-351, SHT 2	R2-30 135 Reactor Bldg - U2	ENERGIZED DEENERGIZED	N/R N/R	-
1 2	9 SR ACTIVE	2AV060	HPSW HVAC	HPSW PUMP ROOM SUPPLY FAN A	M-396, SHT 1	P/H-6 112 Pump House	AUTO ON	- -	-
1 2	9 SR ACTIVE	2AV083	HPSW HVAC	HPSW PUMP ROOM EXHAUST FAN A	M-396, SHT 1	P/H-6 112 Pump House	AUTO ON	- -	-
1 2	9 SR ACTIVE	2BV060	HPSW HVAC	HPSW PUMP ROOM SUPPLY FAN B	M-396, SHT 1	P/H-6 112 Pump House	AUTO ON	- -	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 2	9 SR ACTIVE	2BV083	HPSW HVAC	HPSW PUMP ROOM EXHAUST FAN B	M-396, SHT 1	P/H-6 112 Pump House	AUTO ON	- -	- -
3 2 5561	10 S PASSIVE	2AE55 2AE055	ESW PBO	RCIC PUMP ROOM COOLING COIL A	M-315, SHT 5	R2-14 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5551	10 S PASSIVE	2AE56 2AE056	ESW PBO	HPCI PUMP ROOM COOLING COIL A	M-315, SHT 2	R2-13 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5553	10 S PASSIVE	2AE57 2AE057	ESW PBO	A CORE SPRAY ROOM COOLING COIL A	M-315, SHT 5	R2-9 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5543	10 S PASSIVE	2AE58 2AE058	ESW PBO	A RHR ROOM COOLING COIL A	M-315, SHT 2	R2-16 116 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5562	10 S PASSIVE	2BE55 2BE055	ESW PBO	RCIC PUMP ROOM COOLING COIL B	M-315, SHT 5	R2-14 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5552	10 S PASSIVE	2BE56 2BE056	ESW PBO	HPCI PUMP ROOM COOLING COIL B	M-315, SHT 2	R2-13 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5554	10 S PASSIVE	2BE57 2BE057	ESW PBO	A CORE SPRAY ROOM COOLING COIL B	M-315, SHT 5	R2-9 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5544	10 S PASSIVE	2BE58 2BE058	ESW PBO	A RHR ROOM COOLING COIL B	M-315, SHT 2	R2-5 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5555	10 S PASSIVE	2CE57 2CE057	ESW PBO	C CORE SPRAY ROOM COOLING COIL C	M-315, SHT 5	R2-11 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5545	10 S PASSIVE	2CE58 2CE058	ESW PBO	C RHR ROOM COOLING COIL C	M-315, SHT 2	R2-7 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5556	10 S PASSIVE	2DE57 2DE057	ESW PBO	C CORE SPRAY ROOM COOLING COIL D	M-315, SHT 5	R2-11 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5546	10 S PASSIVE	2DE58 2DE058	ESW PBO	C RHR ROOM COOLING COIL D	M-315, SHT 2	R2-7 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 5557	10 S PASSIVE	2EE57 2EE057	ESW PBO	B CORE SPRAY ROOM COOLING COIL E	M-315, SHT 5	R2-10 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5547	10 S PASSIVE	2EE58 2EE058	ESW PBO	B RHR ROOM COOLING COIL E	M-315, SHT 2	R2-6 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5558	10 S PASSIVE	2FE57 2FE057	ESW PBO	B CORE SPRAY ROOM COOLING COIL F	M-315, SHT 5	R2-10 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5548	10 S PASSIVE	2FE58 2FE058	ESW PBO	B RHR ROOM COOLING COIL F	M-315, SHT 2	R2-6 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5559	10 S PASSIVE	2GE57 2GE057	ESW PBO	D CORE SPRAY ROOM COOLING COIL G	M-315, SHT 5	R2-12 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5549	10 S PASSIVE	2GE58 2GE058	ESW PBO	D RHR ROOM COOLING COIL G	M-315, SHT 2	R2-19 116 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5560	10 S PASSIVE	2HE57 2HE057	ESW PBO	D CORE SPRAY ROOM COOLING COIL H	M-315, SHT 5	R2-12 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
3 2 5550	10 S PASSIVE	2HE58 2HE058	ESW PBO	D RHR ROOM COOLING COIL H	M-315, SHT 2	R2-8 91-6 Reactor Bldg - U2	N/A N/A	N/R N/R	- M-77 Series
1 2	10 S ACTIVE	PO20223-1	HPSW HVAC	HPSW PUMP ROOM "B" LOOP SUPPLY DAMPER	M-396, SHT 1	P/H-6 112 Pump House	OPEN OPEN	- -	- -
1 2	10 S ACTIVE	PO20223-2	HPSW HVAC	HPSW PUMP ROOM "B" LOOP EXHAUST DAMPER	M-396, SHT 1	P/H-6 112 Pump House	OPEN OPEN	- -	- -
1 2	10 S ACTIVE	PO20223-3	HPSW HVAC	HPSW PUMP ROOM "A" LOOP SUPPLY DAMPER	M-396, SHT 1	P/H-6 112 Pump House	CLOSED CLOSED/OPEN	- -	- -
1 2	10 S ACTIVE	PO20223-4	HPSW HVAC	HPSW PUMP ROOM "A" LOOP EXHAUST DAMPER	M-396, SHT 1	P/H-6 112 Pump House	CLOSED CLOSED/OPEN	- -	- -
3 2 8113	14 S ACTIVE	20D21 20D021	EPS-2A	125V DC STATION DISTRIBUTION PANEL	E-26, SHT 1	T2-81 150 Turbine Bldg - U2	ENERGIZED ENERGIZED	2AD03 -	2AD19 E-16-1-8

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8214	14 S ACTIVE	20D22 20D022	EPS-2B	125V DC STATION DISTRIBUTION PANEL	E-26, SHT 1	T2-81 150 Turbine Bldg - U2	ENERGIZED ENERGIZED	2BD03 -	2BD19 E-16-1-8
3 2 8312	14 S ACTIVE	20D23 20D023	EPS-2C	125VDC STATION DISTRIBUTION PANEL	E-26, SHT 1	T2-81 150 Turbine Bldg - U2	ENERGIZED ENERGIZED	2CD03 -	2CD19 E-16-1-8
3 2 8000	14 SR ACTIVE	20S315 20S315	EPS-2B	BYPASS/ISOLATION SWITCH	E-28, SHT. 1	T2-81 150 Turbine Bldg - U2	ENERGIZED ENERGIZED	20D37 -	- -
3 2 8000	14 S ACTIVE	20Y33 20YO33	EPS-2A	120VAC DISTRIBUTION PANEL	E-28, SHT. 1	T2-81 150 Turbine Bldg - U2	ENERGIZED ENERGIZED	20X133 -	- -
3 2 8001	14 S ACTIVE	20Y35 20Y035	EPS-2C	120VAC DISTRIBUTION PANEL	E-28, SHT 1	R2-29 135 Reactor Bldg - U2	ENERGIZED ENERGIZED	20X135 -	- -
3 2 8000	14 S ACTIVE	20Y50 20Y050	EPS-2B	120VAC DISTRIBUTION PANEL	E-28, SHT. 1	T2-81 150 Turbine Bldg - U2	ENERGIZED ENERGIZED	20D08 20X150 -	20D37 -
3 2 8108	14 S ACTIVE	2AD17 2AD017	EPS-2A	250 VOLT FUSE BOX	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	N/A -	2AD01 E16-2-6
3 2 8109	14 S ACTIVE	2AD19 2AD019	EPS-2A	250 VOLT FUSE BOX	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	N/A -	2AD17 2AD03 E16-2-6
3 2 8209	14 S ACTIVE	2BD17 2BD017	EPS-2B	250 VOLT FUSE BOX	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	N/A -	2BD01 E16-2-6
3 2 8212	14 S ACTIVE	2BD18 2BD018	EPS-2B	2DPB 250V DC DISTRIBUTION PANEL 2BD018	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	2BD03 2DD03	2BD17 2DD17 E16-2-6
3 2 8210	14 S ACTIVE	2BD19 2BD019	EPS-2B	250 VOLT FUSE BOX	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	N/A -	2BD17 2BD003 E16-2-6
3 2 8000	14 S ACTIVE	2BD306 2BD306	EPS-2B	125VDC DIST. PANEL (2BD306)	E-26, SHT 1	T2-71 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	2BD03 -	- U2 ONLY??
3 2 8309	14 S ACTIVE	2CD17 2CD017	EPS-2C	250 VOLT FUSE BOX	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	N/A -	2CD01 E16-2-6

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8310	14 S ACTIVE	2CD19 2CD019	EPS-2C	250 VOLT FUSE BOX	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	N/A -	2AD17 E16-2-6
3 2 8408	14 S ACTIVE	2DD17 2DD017	EPS-2D	250 VOLT DC FUSE BOX	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	N/A -	2DD01 E16-2-6
3 2 8409	14 S ACTIVE	2DD19 2DD019	EPS-2D	250 VOLT FUSE BOX	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	N/A -	2BD17 2DD003 E16-2-6
3 2 8107	15 S ACTIVE	2AD01 2AD001	EPS-2A	"2A" 125V DC BATTERY	E-26, SHT 1	T2-70 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	2AD03 -	- E-13-34 to 37,
3 2 8208	15 S ACTIVE	2BD01 2BD001	EPS-2B	"2B" 125V DC BATTERY	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	2BD03 -	- E-13-34 to 37,
3 2 8308	15 S ACTIVE	2CD01 2CD001	EPS-2C	"2C" 125VDC BATTERY	E-26, SHT 1	T2-70 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	2CD03 -	- E-13-34 to 37,
3 2 8407	15 S ACTIVE	2DD01 2DD001	EPS-2D	"2D" 125V DC BATTERY	E-26, SHT 1	T2-169 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	2DD03 -	- E-13-34 to 37,
3 2 8000	16 SR ACTIVE	20D37 20D037	EPS-2B	STATIC INVERTER	E-28, SHT. 1	T2-73 135 Turbine Bldg - U2	ENERGIZED ENERGIZED	20D08 20X150 -	- 6280-E45
3 2 8110	16 S ACTIVE	2AD03 2AD003	EPS-2A	"2A" 125V STATION BATTERY CHARGER	E-26, SHT 1	T2-171 135 Turbine Bldg - U2	ON ON	20B59(N) 30B59(A)	- NE-102
3 2 8211	16 S ACTIVE	2BD03 2BD003	EPS-2B	"2B" 125V STATION BATTERY CHARGER	E-26, SHT 1	T2-171 135 Turbine Bldg - U2	ON ON	20B60(N) 30B60(A)	2BS456 NE-102
3 2 8311	16 S ACTIVE	2CD03 2CD003	EPS-2C	"2C" 125V STATION BATTERY CHARGER	E-26, SHT 1	T2-171 135 Turbine Bldg - U2	ON ON	20B38 -	- NE-102
3 2 8410	16 S ACTIVE	2DD03 2DD003	EPS-2D	"2D" 125V STATION BATTERY CHARGER	E-26, SHT 1	T2-172 135 Turbine Bldg - U2	ON ON	20B39(N) 30B60(A)	2DS456 NE-102
3 2 8000	18 S ACTIVE	20C87 20C087	EPS	HPCI INSTRUMENT RACK		R2-15 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M-1-EE-180, M-580

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8000	18 S ACTIVE	20C95 20C095	EPS	RCIC INSTRUMENT RACK		R2-15 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M1-EE-188
3 2 8000	18 S ACTIVE	2AC65 2AC065	EPS	RX VESSEL LVL AND PRESSURE INST RACK A		R2-40 165 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M-1-EE-168, M-1-EE-170
3 2 8000	18 S ACTIVE	2AC91 2AC091	EPS	JET PUMP INST RACK A		R2-81 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
3 2 8000	18 S ACTIVE	2BC65 2BC065	EPS	RX VESSEL LVL AND PRESSURE INST RACK B		R2-40 165 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M-1-EE-168, M-1-EE-170
3 2 8000	18 S ACTIVE	2BC91 2BC091	EPS	JET PUMP INST RACK B		R2-29 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
1 2	18 S ACTIVE	DPS20224-1	HPSW HVAC	HPSW PUMP ROOM / SUPPLY PLENUM DIFFERENTIAL PRESSURE SENSOR	M-396, SHT 1	P/H-8 112 Pump House	OPERABLE OPERABLE	- -	- -
1 2	18 S ACTIVE	DPS20224-2	HPSW HVAC	HPSW PUMP ROOM / EXHAUST PLENUM DIFFERENTIAL PRESSURE SENSOR	M-396, SHT 1	P/H-8 112 Pump House	OPERABLE OPERABLE	- -	- -
1 2	18 S ACTIVE	DPS20224-3	HPSW HVAC	HPSW PUMP ROOM / SUPPLY PLENUM DIFFERENTIAL PRESSURE SENSOR	M-396, SHT 1	P/H-8 112 Pump House	OPERABLE OPERABLE	- -	- -
1 2	18 S ACTIVE	DPS20224-4	HPSW HVAC	HPSW PUMP ROOM / EXHAUST PLENUM DIFFERENTIAL PRESSURE SENSOR	M-396, SHT 1	P/H-8 112 Pump House	OPERABLE OPERABLE	- -	- -
1 2	18 BR ACTIVE	LS2	PROC MON INSTM	SUPPRESSION POOL LIMIT SWITCH AY VALVE MO2-13-039 MO2-13-039	M-365, SHT 1	- - -	OPERABLE OPERABLE	- -	- -
1 2	18 BR ACTIVE	LS2	PROC MON INSTM	SUPPRESSION POOL LIMIT SWITCH AY VALVE MO2-13-041 MO2-13-041	M-365, SHT 1	- - -	OPERABLE OPERABLE	- -	- -
1 2	18 BR ACTIVE	LS2-23-57	PROC MON INSTM	SUPPRESSION POOL LIMIT SWITCH ON VALVE MO2-23-57 MO2-23-57	M-359, SHT 1	- - -	OPERABLE OPERABLE	- -	- -
1 2	18 BR ACTIVE	LS2-23-58	PROC MON INSTM	SUPPRESSION POOL LIMIT SWITCH ON VALVE MO2-23-58 MO2-23-58	M-359, SHT 1	- - -	OPERABLE OPERABLE	- -	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 2	18 SR ACTIVE	LS2-23-74	PROC MON INSTM	CONDENSATE STORAGE TANK LEVEL SWITCH	M-309, SHT 1	T2-55 135 Turbine Bldg - U2	OPERABLE OPERABLE	- -	-
1 2	18 SR ACTIVE	LS2-23-75	PROC MON INSTM	CONDENSATE STORAGE TANK LEVEL SWITCH	M-309, SHT 1	T2-55 135 Turbine Bldg - U2	OPERABLE OPERABLE	- -	-
1 2	18 SR ACTIVE	LS2-23-91A	PROC MON INSTM	SUPPRESSION POOL LEVEL SWITCH	M-359, SHT 1	R2-10 91-6 Reactor Bldg - U2	OPERABLE OPERABLE	- -	-
1 2	18 SR ACTIVE	LS2-23-91B	PROC MON INSTM	SUPPRESSION POOL LEVEL SWITCH	M-359, SHT 1	R2-10 91-6 Reactor Bldg - U2	OPERABLE OPERABLE	- -	-
3 2 7129	18 S ACTIVE	LT-8027A LT-8027A	PROC MON INSTM	TORUS WATER LEVEL TRANSMITTER FOR LR-8027	M-365, SHT 1	R2-10 091 Reactor Bldg - U2	OPERABLE OPERABLE	20Y33 -	-
3 2 7127	18 S ACTIVE	LT-8027B LT-8027B	PROC MON INSTM	TORUS WATER LEVEL TRANSMITTER FOR LI-8027	M-365, SHT 1	R2-10 091 Reactor Bldg - U2	OPERABLE OPERABLE	20Y50 -	-
3 2 7128	18 S ACTIVE	LT-8123A LT-8123A	PROC MON INSTM	TORUS WATER LEVEL TRANSMITTER FOR LI-8123A	M-365, SHT 1	R2-10 091 Reactor Bldg - U2	OPERABLE OPERABLE	20Y35 -	-
3 2 7130	18 S ACTIVE	LT-8123B LT-8123B	PROC MON INSTM	TORUS WATER LEVEL TRANSMITTER FOR LR-8123B	M-365, SHT 1	R2-6 091 Reactor Bldg - U2	OPERABLE OPERABLE	00Y03 -	-
3 2 7132	18 N/A ACTIVE	LT-8453 LT-8453	PROC MON INSTM Level NR. Transfer function will be picked up	CONDENSATE STORAGE TANK LEVEL TRANSMITTER FOR LI-8453	M-309, SHT 1	B/H6 116 A Cooling Tower	OPERABLE OPERABLE	20Y50 -	-
1 2	18 SR ACTIVE	LT2-13-170	PROC MON INSTM	SUPPRESSION POOL LEVEL SWITCH FOR RCIC INITIATION	M-365, SHT 1	T2-14 116 Turbine Bldg - U2	OPERABLE OPERABLE	- -	-
1 2	18 SR ACTIVE	LT2-13-171	PROC MON INSTM	SUPPRESSION POOL LEVEL SWITCH FOR RCIC INITIATION	M-365, SHT 1	T2-14 116 Turbine Bldg - U2	OPERABLE OPERABLE	- -	-
3 2 7131	18 B ACTIVE	LT2-2-3-61 LT-2-02-3-061	PROC MON INSTM	REACTOR VESSEL WATER LEVEL TRANSMITTER FOR LI2-2-3-86 2AC065	M-352, SHT 1	R2-40 165 Reactor Bldg - U2	OPERABLE OPERABLE	20Y33 -	-
3 2 7140	18 S ACTIVE	PT-2508B PT-2508B	PROC MON INSTM	CONTAINMENT ATMOS DRYWELL PRESS TRANSMITTER FOR PR-2508	M-367, SHT 1	R2-53 195 Reactor Bldg - U2	OPERABLE OPERABLE	20D23 20Y35 -	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 7141	18 S ACTIVE	PT-4805 PT-4805	PROC MON INSTM	DRYWELL PRESSURE TRANSMITTER FOR PR-4805	M-367, SHT 1	R2-20 116 Reactor Bldg - U2	OPERABLE OPERABLE	20Y50 -	-
3 2 7135	18 B ACTIVE	PT-8102A PT-8102A	PROC MON INSTM	DRYWELL PRESSURE TRANSMITTER FOR PR-8102A 2AC65	M-361, SHT 1	R2-63 165 Reactor Bldg - U2	OPERABLE OPERABLE	20Y35 -	-
3 2 7137	18 B ACTIVE	PT-8102B PT-8102B	PROC MON INSTM	DRYWELL PRESSURE TRANSMITTER FOR PR-8102B 2BC65	M-361, SHT 2	R2-63 165 Reactor Bldg - U2	OPERABLE OPERABLE	00Y03 -	-
3 2 7134	18 B ACTIVE	PT-8102C PT-8102C	PROC MON INSTM	DRYWELL PRESSURE TRANSMITTER FOR PR-8102A 2AC65	M-361, SHT 1	R2-63 165 Reactor Bldg - U2	OPERABLE OPERABLE	20Y35 -	-
3 2 7136	18 B ACTIVE	PT-8102D PT-8102D	PROC MON INSTM	DRYWELL PRESSURE TRANSMITTER FOR PR-8102B 2BC65	M-361, SHT 2	R2-63 165 Reactor Bldg - U2	OPERABLE OPERABLE	00Y03 -	-
3 2 7138	18 B ACTIVE	PT2-2-3-404A PT-2-02-3-404A	PROC MON INSTM	REACTOR PRESSURE TRANSMITTER FOR PR2-2-3-404A 2AC065	M-352, SHT 1	R2-40 165 Reactor Bldg - U2	OPERABLE OPERABLE	20Y35 -	-
3 2 7139	18 B ACTIVE	PT2-2-3-404B PT-2-02-3-404B	PROC MON INSTM	REACTOR PRESSURE TRANSMITTER FOR PR2-2-3-404B 2BC065	M-352, SHT 2	R2-40 165 Reactor Bldg - U2	OPERABLE OPERABLE	00Y03 -	-
3 2 7132	18 B ACTIVE	PT2-6-53A PT-2-06-053A	PROC MON INSTM	REACTOR WIDE RANGE PRESSURE TRANSMITTER FOR PI2-6-90A 2AC065	M-352, SHT 1	R2-40 165 Reactor Bldg - U2	OPERABLE OPERABLE	20Y50 -	-
3 2 7133	18 B ACTIVE	PT2-6-53B PT-2-06-053B	PROC MON INSTM	REACTOR WIDE RANGE PRESSURE TRANSMITTER FOR PI2-6-90B 2BC065	M-352, SHT 2	R2-40 165 Reactor Bldg - U2	OPERABLE OPERABLE	20Y50 -	-
1 2	18 S ACTIVE	TIC20223	HPSW HVAC	HPSW PUMP ROOM EXHAUST TEMP INDICATING CONTROLLER	M-396, SHT 1	P/H-8 112 Pump House	OPERABLE OPERABLE	- -	-
1 2	18 S ACTIVE	TS20224-1	HPSW HVAC	HPSW PUMP ROOM "A" LOOP AUTOMATIC TEMPERATURE SENSOR	M-396, SHT 1	P/H-6 112 Pump House	OPERABLE OPERABLE	- -	-
1 2	18 S ACTIVE	TS20224-2	HPSW HVAC	HPSW PUMP ROOM "B" LOOP AUTOMATIC TEMPERATURE SENSOR	M-396, SHT 1	P/H-6 112 Pump House	OPERABLE OPERABLE	- -	-
1 2	18 S ACTIVE	TT20223	HPSW HVAC	HPSW PUMP ROOM EXHAUST TEMPERATURE TRANSMITTER	M-396, SHT 1	P/H-8 112 Pump House	OPERABLE OPERABLE	- -	-

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8000	20 S ACTIVE	20B324 20B324	EPS	MO2-23-015 MOTOR CONTROL POWER TRANSFER SWITCH	-	T2-67 135 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 8000	20 S ACTIVE	20C003 20C003	EPS	REACTOR AND CONTAINMENT COOLING AND ISOLATION	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 8000	20 S ACTIVE	20C004C 20C004C	EPS	RCIC CONTROL PANEL	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 8000	20 S ACTIVE	20C005A 20C005A	EPS	REACTOR MANUAL CONTROL PANEL	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 8000	20 B ACTIVE	20C005C 20C005C	EPS	MAIN CONTROL ROOM CONSOLE 20C005A	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
3 2 8000	20 S ACTIVE	20C012 20C012	EPS	PLANT SERVICES CONSOLE	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- E-17-42/2
3 2 8000	20 S ACTIVE	20C124 20C124	EPS	CRT AND RFPT TEST PANEL	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	-
1 2	20 S ACTIVE	20C139	HPSW HVAC	HPSW PUMP ROOM LOCAL CONTROL PANEL	E202	P/H-6 112 Pump House	OPERABLE OPERABLE	B62 -	-
3 2 8000	20 S ACTIVE	20C32 20C032	EPS	ENGINEERING SUB SYSTEM I RELAY CABINET	-	T2-81 150 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- S-1198/1-3, M-1-EE-241
3 2 8000	20 S ACTIVE	20C33 20C033	EPS	ENGINEERING SUB SYSTEM II RELAY CABINET	-	T2-81 150 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- S-1198/1-3, M-1-EE-241
3 2 8000	20 S ACTIVE	20C34 20C034	EPS	RCIC RELAY PANEL	-	T2-81 150 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- S-1198/1-3, M-1-EE-84-24
3 2 8000	20 S ACTIVE	20C39 20C039	EPS	HPCI RELAY CABINET	-	T2-81 150 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- S-1198/1-3, M-1-EE-98
3 2 8000	20 S ACTIVE	20C722A 20C722A	EPS	ACCIDENT MONITORING INSTRUMENTATION PANEL	-	T2-81 150 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- S-1198/1-3, M-1-EE-405

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 8000	20 S ACTIVE	20C722B 20C722B	EPS	ACCIDENT MONITORING INSTRUMENTATION PANEL	-	T2-81 150 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- S-1198/1-3, M-1-EE-405
3 2 8000	20 S ACTIVE	20D41 20D041	EPS	HPCI GLAND SEAL CONDENSER VACUUM PUMP STARTER	-	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
3 2 8000	20 B ACTIVE	20D42 20D042	EPS	HPCI GLAND SEAL CONDENSER VACUUM PUMP STARTER 20D41	-	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
3 2 8000	20 B ACTIVE	20D43 20D043	EPS	HPCI AUX LUBE OIL PUMP STARTER 20D41	-	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- U2 ONLY??
1 2	20 S ACTIVE	20S37-PANEL 20S037-PANEL	HPCI	"U2" HPCI TURBINE	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
3 2 8000	20 S ACTIVE	2AC265 2AC265	EPS	RESERVOIR FLOW PUMP BAY MO-2804A	-	ECT-1 114 Emergency Cooling Tower	OPERABLE OPERABLE	N/A N/A	- 62A-O-117-49-3
3 2 8000	20 S ACTIVE	2AC272 2AC272	EPS	HPCI STEAM LEAK DETECTION CABINET	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M241-10
3 2 8000	20 S ACTIVE	2BC265 2BC265	EPS	RESERVOIR FLOW PUMP BAY MO-2804B	-	ECT-1 114 Emergency Cooling Tower	OPERABLE OPERABLE	N/A N/A	- 62A-O-117-49-3
3 2 8000	20 S ACTIVE	2BC272 2BC272	EPS	HPCI STEAM LEAK DETECTION CABINET	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M241-10
3 2 8000	20 S ACTIVE	2CC133 2CC133	EPS	FAN ROOM H&V RELAY PANEL	-	R/W-32 165 Radwaste Bldg	OPERABLE OPERABLE	N/A N/A	- U2 ONLY??
3 2 7100	20 BR ACTIVE	LI-8027 LI-8027	PROC MON INSTM	TORUS WATER LEVEL 20C003	M-365, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y50 -	LT-8027B -
3 2 7101	20 BR ACTIVE	LI-8123A LI-8123A	PROC MON INSTM	WIDE RANGE SUPPRESSION POOL LEVEL INDICATOR 20C003	M-365, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y35 -	LT-8123A -
3 2 7102	20 BR ACTIVE	LI-8453 LI-8453	PROC MON INSTM	CST LEVEL INDICATOR 20C004C	M-309, SHT 2	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y50 -	LT-8453 -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 7124	20 BR ACTIVE	LI2-2-3-113 LI-2-02-3-113	PROC MON INSTM	REACTOR WATER LEVEL 20C003	M-352, SHT 5	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y50 -	LT2-2-3-113 -
3 2 7125	20 BR ACTIVE	LI2-2-3-85A LI-2-02-3-085A	PROC MON INSTM	REACTOR VESSEL HIGH WATER 20C005A	M-352, SHT 5	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y35 -	LT2-2-3-72A OR 73A -
3 2 7126	20 BR ACTIVE	LI2-2-3-85B LI-2-02-3-085B	PROC MON INSTM	REACTOR VESSEL HIGH WATER 20C005A	M-352, SHT 5	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	00Y03 -	LT2-2-3-72B OR 73B -
3 2 7107	20 BR ACTIVE	LI2-2-3-86 LI-2-02-3-086	PROC MON INSTM	REACTOR VESSEL HIGH WATER 20C003A	M-352, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y33 -	LT2-2-3-61 -
3 2 7102	20 BR ACTIVE	LR-8027 LR-8027	PROC MON INSTM	TORUS WATER LEVEL 20C003	M-365, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y33 -	LT-8027A -
3 2 7103	20 BR ACTIVE	LR-8123B LR/TR-8123B	PROC MON INSTM	TORUS WATER LEVEL/TEMPERATURE RECORDER 20C003	M-365, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	00Y03 -	LT-8123B -
3 2 7104	20 BR ACTIVE	LR2-2-3-110A LR-2-02-3-110A	PROC MON INSTM	REACTOR WATER LEVEL WIDE RANGE 20C004C	M-352, SHT 5	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y35 -	LT2-2-3-72C OR 73C -
3 2 7105	20 BR ACTIVE	LR2-2-3-110B LR-2-02-3-110B	PROC MON INSTM	REACTOR WATER LEVEL WIDE RANGE 20C003	M-352, SHT 5	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	00Y03 -	LT2-2-3-72D OR 73D -
3 2 7108	20 BR ACTIVE	PI2-6-90A PI-2-06-090A	PROC MON INSTM	REACTOR WIDE RANGE PRESS IND 20C005A	M-352, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y50 -	PT2-6-53A -
3 2 7109	20 BR ACTIVE	PI2-6-90B PI-2-06-090B	PROC MON INSTM	REACTOR WIDE RANGE PRESS IND 20C005C	M-352, SHT 2	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y50 -	PT2-6-53B -
3 2 7110	20 BR ACTIVE	PR-2508 PR-2508	PROC MON INSTM	CONTAIN ATMOS DRYWELL PRESS 20C003	M-367, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y35 20D23 -	PT-2508B -
3 2 7111	20 BR ACTIVE	PR-4805 PR-4805	PROC MON INSTM	CONTAINMENT PRESSURE 20C003	M-367, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y50 -	PT-4805 -
3 2 7112	20 BR ACTIVE	PR-8102A PR-8102A	PROC MON INSTM	DRYWELL PRESSURE 20C003	M-361, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y35 -	PT-8102A PT-8102C -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 2 7113	20 BR ACTIVE	PR-8102B PR-8102B	PROC MON INSTM	DRYWELL PRESSURE 20C003	M-361, SHT 2	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	00Y03 -	PT-8102B PT-8102D -
3 2 7114	20 BR ACTIVE	PR2-2-3-404A PR/LR-2-02-3-404A	PROC MON INSTM	REACTOR PRESS/RPV WATER LEVEL 20C004C	M-352, SHT 1	T2-100 (C04C) 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y35 -	PT2-2-3-404A -
3 2 7115	20 BR ACTIVE	PR2-2-3-404B PR-2-02-3-404B	PROC MON INSTM	REACTOR PRESSURE 20C003	M-352, SHT 2	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	00Y03 -	PT2-2-3-404B -
3 2 7106	20 BR ACTIVE	PR2-6-96 PR/LR-2-06-096	PROC MON INSTM	REACTOR LEVEL/STM FLOW RATIO 20C005A	M-352, SHT 5	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y50 -	PT2-6-105 -
3 2 7118	20 BR ACTIVE	TIS-2-2-71A TIS-2-02-071A	PROC MON INSTM	TORUS WATER TEMPERATURE INDICATING SWITCH 20C124	M-361, SHT 1	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	20Y35 -	TE2-2-71A1 THRU TE2-2-71N1 -
3 2 7119	20 BR ACTIVE	TIS-2-2-71B TIS-2-02-071B	PROC MON INSTM	TORUS WATER TEMPERATURE INDICATING SWITCH 20C124	M-361, SHT 2	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	00Y03 -	TE2-2-71A2 THRU TE2-2-71N2 -
1 2 3212	21 B PASSIVE	20E105 20E105	HPCI	HPCI TURB LUBE OIL COOLER (23-2) 6/16/94	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- Vendor Dwg 210M806A3
1 2 3210	21 S PASSIVE	20E33 20E033	HPCI	HPCI GLAND SEAL CONDENSER (23-2)	M-366, SHT 1	R2-13 088 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- -
3 2 5539	21 B PASSIVE	2AE124 2AE124	ESW	"2A" RHR PUMP SEAL COOLER 2AP35	M-315, SHT 2	R2-5 091 Reactor Bldg - U2	N/A N/A	N/R N/R	- -
2 2 4106, 5525	21 S PASSIVE	2AE24 2AE024	RHR-A	RHR HEAT EXCHANGER A	M-361, SHT 1	R2-16 116 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M-1-H-4-7, M-1-H-12-5,
3 2 6102	21 S PASSIVE	2AS377 2AS377	BACKUP INST N2	BACK-UP N2 SUPPLY TO ADS RV'S	M-333, SHT 1	R2-66 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M-1786-5
3 2 2101	21 S PASSIVE	2AT545 2AT545	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71A	M-351, SHT 1	D/W2-27 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-333
3 2 5541	21 B PASSIVE	2BE124 2BE124	ESW	"2B" RHR PUMP SEAL COOLER 2BP35	M-315, SHT 2	R2-6 091 Reactor Bldg - U2	N/A N/A	N/R N/R	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 2 4206, 5527	21 S PASSIVE	2BE24 2BE024	RHR-B	RHR HEAT EXCHANGER B	M-361, SHT 2	R2-18 116 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M-1-H-4-7, M-1-H-12-5,
3 2 6103	21 S PASSIVE	2BS377 2BS377	BACKUP INST N2	BACK-UP N2 SUPPLY TO ADS RV'S	M-333, SHT 1	R2-23 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M-1786-5
3 2 2106	21 S PASSIVE	2BT545 2BT545	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71B	M-351, SHT 1	D/W2-27 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-333
3 2 5540	21 B PASSIVE	2CE124 2CE124	ESW	"2C" RHR PUMP SEAL COOLER 2CP35	M-315, SHT 2	R2-7 091 Reactor Bldg - U2	N/A N/A	N/R N/R	- -
2 2 4109, 5526	21 S PASSIVE	2CE24 2CE024	RHR-A	RHR HEAT EXCHANGER C	M-361, SHT 1	R2-17 091 Reactor Bldg - U2	N/A OPERABLE	N/A N/A	- M-1-H-4-7, M-1-H-12-5,
3 2 6104	21 S PASSIVE	2CS377 2CS377	BACKUP INST N2	BACKUP NITROGEN SUPPLY FOR ADS	M-333, SHT 1	R2-23 135 Reactor Bldg - U2	OPERABLE OPERABLE	N/A N/A	- M-1786-5
3 2 2111	21 S PASSIVE	2CT545 2CT545	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71C	M-351, SHT 1	D/W2-27 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-333
3 2 5542	21 B PASSIVE	2DE124 2DE124	ESW	"2D" RHR PUMP SEAL COOLER 2DP35	M-315, SHT 2	R2-8 091 Reactor Bldg - U2	N/A N/A	N/R N/R	- -
1 2 4209, 5528	21 S PASSIVE	2DE24 2DE024	RHR-B	RHR HEAT EXCHANGER D	M-361, SHT 2	R2-19 116 Reactor Bldg - U2	N/A OPERABLE	N/A N/A	- M-1-H-4-7, M-1-H-12-5,
3 2 2122	21 S PASSIVE	2GT545 2GT545	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71G	M-351, SHT 2	D/W2-35 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-333
3 2 2131	21 S PASSIVE	2KT545 2KT545	SRV	INSTRUMENT N2 ACCUMULATOR	M-351, SHT 2	D/W2-34 154 Drywell - U2	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-333
R 3 2103	0 N/A PASSIVE	16A-33205A CHK-3-16A-33205A	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-3-2-071A	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- -
3 3 2109	0 N/A PASSIVE	16A-33205B CHK-3-16A-33205B	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-3-2-071B	M-351, SHT 3	D/W3-29 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PtMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 2115	0 N/A PASSIVE	16A-33205C CHK-3-16A-33205C	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-3-2-071C	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	-
3 3 2127	0 N/A PASSIVE	16A-33205G CHK-3-16A-33205G	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-3-2-071G	M-351, SHT 4	D/W3-35 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	-
3 3 2137	0 N/A PASSIVE	16A-33205K CHK-3-16A-33205K	SRV	ADS BACKUP N2 SUPPLY CHK VV TO RV-3-2-071K	M-351, SHT 4	D/W3-34 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	-
1 3 3134	0 N/A PASSIVE	3-06-096B CHK-3-06-96B	RCIC	FEEDWATER CHECK VALVE LOOP B OUTER	M-351, SHT 4	R3-30 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	-
2 3 4309	0 N/A PASSIVE	3-10-177 CHK-3-10-177	RHR-C	HIGH PRESSURE SERVICE WATER TO RHR CROSSTIE CHECK VALVE	M-315, SHT 3	R3-7 091 Reactor Bldg - U3	CLOSED CLOSED	N/A N/A	-
2 3 4315	0 N/A PASSIVE	3-10-184A CHK-3-10-184A	RHR-C	RHR PRESSURING LINE INNER CHECK VALVE TO RHR LOOP A	M-361, SHT 3	R3-24 135 Reactor Bldg - U3	CLOSED CLOSED	N/A N/A	-
1 3 4415	0 N/A PASSIVE	3-10-184B CHK-3-10-184B	RHR-D	RHR PRESSURING LINE INNER CHECK VALVE TO RHR LOOP B	M-361, SHT 4	R3-26 135 Reactor Bldg - U3	CLOSED CLOSED	N/A N/A	-
2 3 4308	0 N/A PASSIVE	3-10-48A CHK-3-10-48A	RHR-C	RHR PUMP 3AP035 DISCHARGE CHECK VALVE	M-361, SHT 3	R3-5 091 Reactor Bldg - U3	CLOSED OPERABLE	N/A N/A	-
1 3 4410	0 N/A PASSIVE	3-10-48B CHK-3-10-48B	RHR-D	RHR PUMP 3BP035 DISCHARGE CHECK VALVE	M-361, SHT 4	R3-6 091 Reactor Bldg - U3	CLOSED OPERABLE	N/A N/A	-
2 3 4107	0 N/A PASSIVE	3-10-48C CHK-3-10-48C	RHR-A 3	RHR PUMP 3CP035 DISCHARGE CHECK VALVE	M-361, SHT 3	R3-7 091 Reactor Bldg - U3	CLOSED OPERABLE	N/A N/A	-
2 3 4206	0 N/A PASSIVE	3-10-48D CHK-3-10-48D	RHR-B 3	RHR PUMP 3DP035 DISCHARGE CHECK VALVE	M-361, SHT 4	R3-8 091 Reactor Bldg - U3	CLOSED OPERABLE	N/A N/A	-
3 3 2104	0 N/A PASSIVE	3-16-257A CHK-3-16-257A	SRV	INSTR N2 CHECK VALVE TO RV-3-2-071A	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	-
3 3 2110	0 N/A PASSIVE	3-16-257B CHK-3-16-257B	SRV	INSTR N2 CHECK VALVE TO RV-3-2-071B	M-351, SHT 3	D/W3-29 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	-

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 2116	0 N/A PASSIVE	3-16-257C CHK-3-16-257C	SRV	INSTR N2 CHECK VALVE TO RV-3-2-071C	M-351, SHT 3	D/W3-26 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	-
3 3 2128	0 N/A PASSIVE	3-16-257G CHK-3-16-257G	SRV	INSTR N2 CHECK VALVE TO RV-3-2-071G	M-351, SHT 4	D/W3-35 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	-
3 3 2138	0 N/A PASSIVE	3-16-257K CHK-3-16-257K	SRV	INSTR N2 CHECK VALVE TO RV-3-2-071K	M-351, SHT 4	D/W3-34 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	-
2 3 5598	0 N/A PASSIVE	3-32-502A CHK-3-32-502A	HPSW	HPSW 3AP042 DISCHARGE CHECK VALVE	M-315, SHT 3	P/H-9 111 Pump House	OPERABLE OPERABLE	N/A N/A	-
1 3 5600	0 N/A PASSIVE	3-32-502B CHK-3-32-502B	HPSW	HPSW 3BP042 DISCHARGE CHECK VALVE	M-315, SHT 3	P/H-9 111 Pump House	OPERABLE OPERABLE	N/A N/A	-
2 3 5602	0 N/A PASSIVE	3-32-502C CHK-3-32-502C	HPSW	HPSW 3CP042 DISCHARGE CHECK VALVE	M-315, SHT 3	P/H-9 111 Pump House	OPERABLE OPERABLE	N/A N/A	-
1 3 5604	0 N/A PASSIVE	3-32-502D CHK-3-32-502D	HPSW	HPSW 3DP042 DISCHARGE CHECK VALVE	M-315, SHT 3	P/H-9 111 Pump House	OPERABLE OPERABLE	N/A N/A	-
3 3 5591	0 N/A PASSIVE	3-33-514 CHK-3-33-514	ESW	SERVICE WATER TO ESW CROSS TIE CHECK VALVE	M-315, SHT 4	T3-45 116 Turbine Bldg - U3	N/A CLOSED	N/A N/A	-
3 3 1100	0 S ACTIVE	3-3A-13 U3 HCU 02-19	CRD 1	HYDRAULIC CONTROL UNITS, TYPICAL OF 185	M-357, SHT 2	R3-24 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	-
1 3 3233	0 N/A PASSIVE	3-6-96A CHK-3-06-96A	HPCI	FEEDWATER CHECK VALVE LOOP A OUTER	M-351, SHT 3	R3-30 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	-
2 3 4100	0 S PASSIVE	3AS769 3AS769	RHR-3A 3	RHR PP 3AP035 SUCTION STRAINER	M-361, SHT 3	Torus 111 Torus Proper - U3	OPERABLE OPERABLE	N/A N/A	- M-361, M-4578,
1 3 4200	0 S PASSIVE	3BS769 3BS769	RHR-3B 3	RHR PP 3BP035 SUCTION STRAINER	M-361, SHT 4	Torus 111 Torus Proper - U3	OPERABLE OPERABLE	N/A N/A	- M-361, M-4578,
2 3 4300	0 S PASSIVE	3CS769 3CS769	RHR-3C	RHR PP 3CP035 SUCTION STRAINER	M-361, SHT 3	Torus 111 Torus Proper - U3	OPERABLE OPERABLE	N/A N/A	- M-361, M-4578,

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 3 4400	0 S PASSIVE	3DS769 3DS769	RHR-3D	RHR PP 3DP035 SUCTION STRAINER	M-361, SHT 4	Torus 111 Torus Proper - U3	OPERABLE OPERABLE	N/A N/A	- M-361, M-4578,
3 3 2213	0 N/A PASSIVE	AO3-10-046B AO-3-10-046B	MSIV	RHR LOOP B CHECK VALVE	M-361, SHT 4	D/W3-16 134 Drywell - U3	CLOSED CLOSED	N/R N/R	- M-1-H-21-7
2 3 4317	0 S PASSIVE	AO3-10-46A AO-3-10-046A	RHR-C	RHR LOOP A CHECK VALVE	M-361, SHT 3	D/W3-21 134 Drywell - U3	CLOSED OPERABLE	N/A N/A	- M-1-H-21-7
1 3 4417	0 S PASSIVE	AO3-10-46B AO-3-10-046B	RHR-D	RHR LOOP B CHECK VALVE	M-361, SHT 4	D/W3-16 134 Drywell - U3	CLOSED OPERABLE	N/A N/A	- M-1-H-21-7
3 3 2214	0 N/A PASSIVE	AO3-14-013A AO-3-14-013A	CS	CORE SPRAY LOOP A CHECK VALVE	M-362, SHT 2	D/W3-21 134 Drywell - U3	CLOSED CLOSED	N/R N/R	- -
3 3 2215	0 N/A PASSIVE	AO3-14-013B AO-3-14-013B	CS	CORE SPRAY LOOP B CHECK VALVE	M-362, SHT 2	D/W3-16 134 Drywell - U3	CLOSED CLOSED	N/R N/R	- -
1 3 3232	0 S PASSIVE	AO3-23-018 AO-3-23-018	HPCI	HPCI DISCHARGE CHECK VALVE	M-365, SHT 2	R3-30 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- Vendor 16097-02
3 3 4310, 4408	0 N/A PASSIVE	MO3-10-020 MO-3-10-020	RHR-C 11	RHR LOOPS A/B X-TIE	M-361, SHT 3	R3-91 116 Reactor Bldg - U3	CLOSED CLOSED	N/A N/A	- -
3 3 5632	0 R PASSIVE	MO3-48-3213 MO-3-33-3213	ESW	UNIT 3 ESW PUMP SLUICE GATE	M-330	S/H-4 116 Screen House	OPEN OPEN	N/R N/R	- -
3 3 6105	0 S ACTIVE	PCV-9917A PCV-3-16A-9917A	BACKUP INST N2	NITROGEN PRESS CTRL VALVE FOR BACKUP SUPPLY TO ADS	M-333, SHT 2	R3-23 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
3 3 6106	0 S ACTIVE	PCV-9917B PCV-3-16A-9917B	BACKUP INST N2	NITROGEN PRESS CTRL VALVE FOR BACKUP SUPPLY TO ADS	M-333, SHT 2	R3-23 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
3 3 6107	0 S ACTIVE	PCV-9917C PCV-3-16A-9917C	BACKUP INST N2	NITROGEN PRESS CTRL VALVE FOR BACKUP SUPPLY TO ADS	M-333, SHT 2	R3-23 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
1 3 3206	0 N/A PASSIVE	PSD3-23-006 PSD-3-23-006	HPCI	HPCI TURBINE EXHAUST RUPTURE DISC	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 3 3220	0 S PASSIVE	SUCTION STRAINER-3HPCI	HPCI	HPCI SUCTION STRAINER	M-365, SHT 2	Torus 111 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	-
3 3 2105	0 S ACTIVE	VRV3-2-9096A VRV-3-02-9096A	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV A	M-351, SHT 3	D/W3-26 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2111	0 S ACTIVE	VRV3-2-9096B VRV-3-02-9096B	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV B	M-351, SHT 3	D/W3-29 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2117	0 S ACTIVE	VRV3-2-9096C VRV-3-02-9096C	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV C	M-351, SHT 3	D/W3-26 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2119	0 S ACTIVE	VRV3-2-9096D VRV-3-02-9096D	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV D	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2121	0 S ACTIVE	VRV3-2-9096E VRV-3-02-9096E	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV E	M-351, SHT 3	D/W3-29 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2123	0 S ACTIVE	VRV3-2-9096F VRV-3-02-9096F	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV F	M-351, SHT 3	D/W3-29 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2129	0 S ACTIVE	VRV3-2-9096G VRV-3-02-9096G	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV G	M-351, SHT 4	D/W3-35 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2131	0 S ACTIVE	VRV3-2-9096H VRV-3-02-9096H	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV H	M-351, SHT 4	D/W3-35 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2133	0 S ACTIVE	VRV3-2-9096J VRV-3-02-9096J	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV J	M-351, SHT 4	D/W3-32 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2139	0 S ACTIVE	VRV3-2-9096K VRV-3-02-9096K	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV K	M-351, SHT 4	D/W3-34 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
3 3 2141	0 S ACTIVE	VRV3-2-9096L VRV-3-02-9096L	SRV	VACUUM RELIEF VALVE FOR MAIN STEAM LINE RELIEF VV L	M-351, SHT 4	D/W3-31 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M120-75-1
1 3 3215	0 N/A PASSIVE	VRV3-23C-140A VRV-3-23C-140A	HPCI	HPCI TURBINE EXHAUST TO. TORUS VACUUM RELIEF VALVE	M-365, SHT 2	R3-99 116 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 3 3216	0 N/A PASSIVE	VRV3-23C-140B VRV-3-23C-140B	HPCI	HPCI TURBINE EXHAUST TO, TORUS VACUUM RELIEF VALVE	M-365, SHT 2	R3-99 116 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
1 3 3217	0 N/A PASSIVE	VRV3-23C-140C VRV-3-23C-140C	HPCI	HPCI TURBINE EXHAUST TO, TORUS VACUUM RELIEF VALVE	M-365, SHT 2	R3-99 116 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
1 3 3218	0 N/A PASSIVE	VRV3-23C-140D VRV-3-23C-140D	HPCI	HPCI TURBINE EXHAUST TO TORUS VACUUM RELIEF VALVE	M-365, SHT 2	R3-99 116 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
1 3 3207	0 N/A PASSIVE	VRV3-23C-5998A VRV-3-23C-5998A	HPCI	HPCI TURBINE EXHAUST VACUUM, RELIEF VALVE	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	CLOSED CLOSED	N/A N/A	- -
1 3 3208	0 N/A PASSIVE	VRV3-23C-5998B VRV-3-23C-5998B	HPCI	HPCI TURBINE EXHAUST VACUUM, RELIEF VALVE	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	CLOSED CLOSED	N/A N/A	- -
3 3 8000	1 S ACTIVE	30B36 E134-W-A(30B36)	EPS-3A	480 V RADWASTE AREA EL. 116' MCC 30B36 (E134-W-A)	E-1715	T3-44 116 Turbine Bldg - U3	ENERGIZED ENERGIZED	30B1013 -	- E-11-143
3 3 8000	1 S ACTIVE	30B37 E234-R-B(30B37)	EPS-3B	480 V REACTOR AREA EL. 135' MCC 30B37(E234-R-B)	E-1715	R3-23 135 Reactor Bldg - U3	ENERGIZED ENERGIZED	30B1113 -	- E-11-144
3 3 8000	1 S ACTIVE	30B38 E334-R-B(30B38)	EPS-3C	480 V REACTOR AREA EL. 135' MCC 30B38(E334-R-B)	E-1717	R3-22 135 Reactor Bldg - U3	ENERGIZED ENERGIZED	30B1213 -	- E-11-145
3 3 8000	1 S ACTIVE	30B39 E434-R-B(30B39)	EPS-3D	480 V REACTOR AREA EL. 135' MCC 30B39 (E434-R-B)	E-1717	R3-23 135 Reactor Bldg - U3	ENERGIZED ENERGIZED	30B1313 -	- E-11-146
3 3 8000	1 S ACTIVE	30B59 E134-T-B(30B59)	EPS-3A	480 V TURBINE AREA EL. 135' MCC 30B59 (E134-T-B)	E-1715	T3-171 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	30B1014 -	- -
3 3 8000	1 S ACTIVE	30B60 E234-T-B(30B60)	EPS-3B	480 V TURBINE AREA EL. 135' MCC 30B60(E234-T-B)	E-1715	T3-171 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	30B1114 -	- -
3 3 8613	1 S ACTIVE	30D11 3DB-R-B	EPS-3B	(30D011) RX BUILDING DC MOTOR CONTROL CENTER	E-27, SHT 1	R3-26 135 Reactor Bldg - U3	ENERGIZED ENERGIZED	3BD18 -	3BD18 E-11-157
3 3 8000	2 S ACTIVE	30B10 30B010	EPS-3A	480 V BUS E134	E-1715	R3-116 165 Reactor Bldg - U3	ENERGIZED ENERGIZED	30X30 -	30B1012 -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3	2	30B1012	EPS-3A	BREAKER TO E134 480 V BUS (LC30B10)	E-1715	R3-116	CLOSED	30B10	-
3	BR					165			
8000	PASSIVE	30B1012		30B10		Reactor Bldg - U3	CLOSED	-	
									-
3	2	30B1013	EPS-3A	BREAKER TO 480 V RADWASTE AREA EL. 116' MCC 30B36 (E134-W-A)	E-1715	R3-116	CLOSED	30B10	-
3	BR					165			
8000	PASSIVE	30B1013		30B10		Reactor Bldg - U3	CLOSED	-	
									-
3	2	30B1014	EPS-3A	BREAKER TO 480 V TURBINE AREA EL. 135' MCC 30B59 (E134-T-B)	E-1715	R3-116	CLOSED	30B10	-
3	BR					165			
8000	PASSIVE	30B1014		30B10		Reactor Bldg - U3	CLOSED	-	
									-
3	2	30B11	EPS-3B	480 V BUS E234	E-1715	R3-41	ENERGIZED	30X31	30B1112
3	S					165			
8000	ACTIVE	30B011				Reactor Bldg - U3	ENERGIZED	-	
									E-10-80
3	2	30B1112	EPS-3B	BREAKER TO E234 480 V BUS (LC30B11)	E-1715	R3-41	CLOSED	30B11	-
3	BR					165			
8000	PASSIVE	30B1112		30B11		Reactor Bldg - U3	CLOSED	-	
									-
3	2	30B1113	EPS-3B	BREAKER TO 480 V REACTOR AREA EL. 135' MCC 30B37 (E234-R-B)	E-1715	R3-41	CLOSED	30B11	-
3	BR					165			
8000	PASSIVE	30B1113		30B11		Reactor Bldg - U3	CLOSED	-	
									-
3	2	30B1114	EPS-3B	BREAKER TO 480 V TURBINE AREA EL. 135' MCC 30B60 (E234-T-B)	E-1715	R3-41	CLOSED	30B11	-
3	BR					165			
8000	PASSIVE	30B1114		30B11		Reactor Bldg - U3	CLOSED	-	
									-
3	2	30B1121	EPS-3B	BREAKER TO 480 V E2 D/G MCC 00B54 (E234-D-A)	E-1715	R3-41	CLOSED	30B11	-
3	BR					165			
8000	PASSIVE	30B1121		30B11		Reactor Bldg - U3	CLOSED	-	
									-
3	2	30B12	EPS-3C	480 V BUS E334	E-1717	R3-115	ENERGIZED	30X32	30B1212
3	S					165			
8000	ACTIVE	30B012				Reactor Bldg - U3	ENERGIZED	-	
									-
3	2	30B1212	EPS-3C	BREAKER TO E334 480 V BUS (LC30B12)	E-1717	R3-115	CLOSED	30B12	-
3	BR					165			
8000	PASSIVE	30B1212		30B12		Reactor Bldg - U3	CLOSED	-	
									-
3	2	30B1213	EPS-3C	BREAKER TO 480 V REACTOR AREA EL. 135' MCC 30B38 (E334-R-B)	E-1717	R3-115	CLOSED	30B12	-
3	BR					165			
8000	PASSIVE	30B1213		30B12		Reactor Bldg - U3	CLOSED	-	
									-
3	2	30B13	EPS-3D	480 V BUS E434	E-1717	R3-41	ENERGIZED	30X33	30B1312
3	S					165			
8000	ACTIVE	30B013				Reactor Bldg - U3	ENERGIZED	-	
									-
3	2	30B1312	EPS-3D	BREAKER TO E434 480 V BUS (LC30B13)	E-1717	R3-41	CLOSED	30B13	-
3	BR					165			
8000	PASSIVE	30B1312		30B13		Reactor Bldg - U3	CLOSED	-	
									-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 8000	2 BR PASSIVE	30B1313 30B1313	EPS-3D	BREAKER TO 480 V REACTOR AREA EL. 135' MCC 30B39 (E434-R-B) 30B13	E-1717	R3-41 165 Reactor Bldg - U3	CLOSED CLOSED	30B13 -	- -
3 3 8000	2 BR PASSIVE	30B1321 E-67(1321)	EPS-3D	BREAKER TO 480 V E4 D/G MCC 00B56 (E434-D-A) 30B13	E-1717	R3-41 165 Reactor Bldg - U3	CLOSED CLOSED	30B13 -	- -
3 3 8500	3 S ACTIVE	30A15 E13	EPS-3A	(30A015) EMERG AUX SWITCHGEAR	E-12	T3-171 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	30A1503 -	30A1503 -
3 3 8501	3 BR ACTIVE	30A1501 E13 (1501)	EPS-3A	E313 BKR FROM XFMR 0BX04 30A15	E-12	T3-171 135 Turbine Bldg - U3	CLOSED CLOSED/OPEN	30A15 20D21	- -
3 3 8502	3 BR ACTIVE	30A1502 E13 (1502)	EPS-3A	E13A BKR (EM CLG TWR) TO XMFR 0AX26 30A15	E-12	T3-171 135 Turbine Bldg - U3	CLOSED OPERABLE	30A15 20D21	- -
3 3 8503	3 BR ACTIVE	30A1503 E13 (1503)	EPS-3A	E13 BKR FROM E1 D/G 0AG12 30A15	E-12	T3-171 135 Turbine Bldg - U3	OPEN CLOSED	0AG12 20D21	- -
3 3 8504	3 BR ACTIVE	30A1505 E13 (1505)	EPS-3A	E134 BKR TO XFMR 30X30 30A15	E-12	T3-171 135 Turbine Bldg - U3	CLOSED OPERABLE	30A15 20D21	- -
3 3 8505	3 BR ACTIVE	30A1506 E13 (1506)	EPS-3A	BREAKER TO 3A RHR PUMP 3AP35 30A15	E-12	T3-171 135 Turbine Bldg - U3	OPEN OPEN/CLOSED	30A15 20D21	- -
3 3 8506	3 BR ACTIVE	30A1507 E13 (1507)	EPS-3A	BREAKER TO 3A HP SER WATER PUMP 3AP42 30A15	E-12	T3-171 135 Turbine Bldg - U3	OPEN CLOSED	30A15 20D21	- -
3 3 8507	3 BR PASSIVE	30A1508 E13 (1508)	EPS-3A	E213 BKR FROM XFMR 0AX04 30A15	E-12	T3-171 135 Turbine Bldg - U3	OPEN OPEN	30A15 20D21	- -
3 3 8600	3 S ACTIVE	30A16 E23	EPS-3B	(30A016) EMERG AUX SWITCHGEAR	E-12	T3-171 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	30A1606 -	30A1606 -
3 3 8601	3 BR ACTIVE	30A1601 E23 (1601)	EPS-3B	E323 BKR FROM XFMR 0BX04 30A16	E-12	T3-71 135 Turbine Bldg - U3	CLOSED CLOSED/OPEN	30A16 2BD306	- -
3 3 8602	3 BR ACTIVE	30A1602 E23 (1602)	EPS-3B	BREAKER TO 3B RHR PUMP 3BP35 30A16	E-12	T3-71 135 Turbine Bldg - U3	OPEN OPEN/CLOSED	30A16 20D22 2BD306	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 8603	3 BR ACTIVE	30A1605 E23 (1605)	EPS-3B	E234 BREAKER TO XFMR 30X31 30A16	E-12	T3-71 135 Turbine Bldg - U3	CLOSED OPERABLE	30A16 20D22 2BD306	-
3 3 8604	3 BR ACTIVE	30A1606 E23 (1606)	EPS-3B	E23 BKR FROM E2 D/G 0BG12 30A16	E-12	T3-71 135 Turbine Bldg - U3	OPEN CLOSED	0BG12 20D22 2BD306	-
3 3 8605	3 BR ACTIVE	30A1607 E23 (1607)	EPS-3B	BREAKER TO 3B HP SER WATER PUMP 3BP42 30A16	E-12	T3-71 135 Turbine Bldg - U3	OPEN CLOSED	30A16 20D22 2BD306	-
3 3 8606	3 BR PASSIVE	30A1608 E23 (1608)	EPS-3B	E223 BKR FROM XFMR 0AX04 30A16	E-12	T3-71 135 Turbine Bldg - U3	OPEN OPEN	30A16 2BD306	-
3 3 8607	3 BR ACTIVE	30A1609 E23 (1609)	EPS-3B	E23A BKR (EM CLG TWR) TO XFMR 0BX26 30A16	E-12	T3-71 135 Turbine Bldg - U3	CLOSED OPERABLE	30A16 20D22 2BD306	-
3 3 8700	3 S ACTIVE	30A17 E33	EPS-3C	(30A017) EMERG AUX SWITCHGEAR	E-12	T3-170 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	30A1704 -	30A1704
3 3 8701	3 BR ACTIVE	30A1701 E33 (1701)	EPS-3C	BKR E333 FROM XFMR 0BX04 30A17	E-12	T3-170 135 Turbine Bldg - U3	CLOSED CLOSED/OPEN	30A17 30D23	-
3 3 8702	3 BR ACTIVE	30A1702 E33 (1702)	EPS-3C	BREAKER TO 3C RHR PUMP 3CP35 30A17	E-12	T3-170 135 Turbine Bldg - U3	OPEN OPEN/CLOSED	30A17 30D23	-
3 3 8703	3 BR ACTIVE	30A1704 E33 (1704)	EPS-3C	E33 BKR FROM E3 D/G 0CG12 30A17	E-12	T3-170 135 Turbine Bldg - U3	OPEN CLOSED	0CG12 30D23	-
3 3 8704	3 BR ACTIVE	30A1705 E33 (1705)	EPS-3C	E334 BKR TO XFMR 30X32 30A17	E-12	T3-170 135 Turbine Bldg - U3	CLOSED OPERABLE	30A17 30D23	-
3 3 8705	3 BR ACTIVE	30A1707 E33 (1707)	EPS-3C	BREAKER TO 3C HP SERV WATER PUMP 3CP42 30A17	E-12	T3-170 135 Turbine Bldg - U3	OPEN CLOSED	30A17 30D23	-
3 3 8706	3 BR PASSIVE	30A1708 E33 (1708)	EPS-3C	E223 BKR FROM XFMR 0AX04 30A17	E-12	T3-170 135 Turbine Bldg - U3	OPEN OPEN	30A17 30D23	-
3 3 8800	3 S ACTIVE	30A18 E43	EPS-3D	(30A018) EMERG AUX SWITCHGEAR	E-12	T3-172 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	30A1807 -	30A1807

TRAIN / Unit / Line No	SQUG Cl / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
3 3 8801	3 BR ACTIVE	30A1801 E43 (1801)	EPS-3D	E343 BKR FROM XFMR 0BX04 30A18	E-12	T3-172 135 Turbine Bldg - U3	CLOSED CLOSED/OPEN	30A18 30D306	-
3 3 8802	3 BR ACTIVE	30A1802 E43 (1802)	EPS-3D	BREAKER TO 3D RHR PUMP 3DP35 30A18	E-12	T3-172 135 Turbine Bldg - U3	OPEN OPEN/CLOSED	30A18 30D24 30D306	-
3 3 8803	3 BR ACTIVE	30A1804 E43 (1804)	EPS-3D	BREAKER TO 3D HP SER WATER PUMP 3DP42 30A18	E-12	T3-172 135 Turbine Bldg - U3	OPEN CLOSED	30A18 30D24 30D306	-
3 3 8804	3 BR ACTIVE	30A1805 E43 (1805)	EPS-3D	E43A BKR (EM CLG TWR) TO XFMR 0CX26 30A18	E-12	T3-172 135 Turbine Bldg - U3	CLOSED OPERABLE	30A18 30D24 30D306	-
3 3 8805	3 BR ACTIVE	30A1806 E43 (1806)	EPS-3D	E434 BKR TO XFMR 30X33 30A18	E-12	T3-172 135 Turbine Bldg - U3	CLOSED OPERABLE	30A18 30D24 30D306	-
3 3 8806	3 BR ACTIVE	30A1807 E43 (1807)	EPS-3D	E43 BKR FROM E4 D/G 0DG12 30A18	E-12	T3-172 135 Turbine Bldg - U3	OPEN CLOSED	0DG12 30D24 30D306	-
3 3 8807	3 BR PASSIVE	30A1808 E43 (1808)	EPS-3D	E243 BKR FROM XFMR 0AX004 30A18	E-12	T3-172 135 Turbine Bldg - U3	OPEN OPEN	30A18 30D306	-
3 3 8000	4 S ACTIVE	30X133 30X133	EPS-3A	PANEL 30Y33 TRANSFORMER	E-29	T3-81 150 Turbine Bldg - U3	ENERGIZED ENERGIZED	30B59 -	-
3 3 8001	4 S ACTIVE	30X135 30X135	EPS-3C	PANEL 30Y35 TRANSFORMER	E-29	R3-29 135 Reactor Bldg - U3	ENERGIZED ENERGIZED	30B38 -	- E1236/3. SPEC E1313
3 3 8000	4 S ACTIVE	30X150 30X150	EPS-3A	PANEL 30Y50 TRANSFORMER	E-29	T3-171 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	30B59 -	-
3 3 8000	4 S ACTIVE	30X30 30X030	EPS-3A	E134 LOAD CENTER XFMR (30X30)	E-1715	R3-116 165 Reactor Bldg - U3	ENERGIZED ENERGIZED	30A1505 -	- ABB Seis Rep
3 3 8000	4 S ACTIVE	30X31 30X031	EPS-3B	E234 LOAD CENTER XFMR (30X31)	E-1715	R3-41 165 Reactor Bldg - U3	ENERGIZED ENERGIZED	30A1605 -	- ABB Seis Rep
3 3 8000	4 S ACTIVE	30X32 30X032	EPS-3C	E334 LOAD CENTER XFMR (30X32)	E-1717	R3-115 165 Reactor Bldg - U3	ENERGIZED ENERGIZED	30A1705 -	- ABB Seis Rep

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 8000	4 S ACTIVE	30X33 30X033	EPS-3D	E434 LOAD CENTER XFMR (30X33)	E-1717	R3-41 165 Reactor Bldg - U3	ENERGIZED ENERGIZED	30A1806 -	- ABB Seis Rep
1 3 3211	5 BR ACTIVE	30K02 30K002	HPCI	HPCI GLAND SEAL CDSR VACUUM PUMP 30E33	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OFF ON	30D11 -	- -
1 3	5 BR ACTIVE	30P26 30P026	HPCI	HPCI AUXILIARY LUBE OIL PUMP 30E33	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OFF ON	30D11 -	- -
1 3 3214	5 BR ACTIVE	30P28 30P028	HPCI	HPCI GLAND SEAL CONDENSER COND PUMP 30E33	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OFF ON	30D11 -	- -
1 3 3226	5 B ACTIVE	30P33 30P033	HPCI	HPCI BOOSTER PUMP 30P38	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OFF OPERABLE	N/A N/A	- -
1 3 3227	5 S ACTIVE	30P38 30P038	HPCI	HPCI PUMP	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OFF OPERABLE	N/A N/A	- Vendor E-4707
1 3 3205	5 S ACTIVE	30S37 30S037	HPCI	"U3" HPCI TURBINE	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
2 3 4103	5 SR ACTIVE	3AP35 3AP035	RHR-A 3	RHR PUMP A	M-361, SHT 3	R3-5 091 Reactor Bldg - U3	OFF OFF/ON	30A15 -	30A1506 M-1-H-41-2, S-1146
1 3 4203	5 SR ACTIVE	3BP35 3BP035	RHR-B 3	RHR PUMP B	M-361, SHT 4	R3-6 091 Reactor Bldg - U3	OFF OFF/ON	30A16 -	30A1602 M-1-H-41-2, S-1146
2 3 4303	5 SR ACTIVE	3CP35 3CP035	RHR-C	RHR PUMP C	M-361, SHT 3	R3-7 091 Reactor Bldg - U3	OFF OFF/ON	30A17 -	30A1702 M-1-H-41-2, S-1146
1 3 4403	5 SR ACTIVE	3DP35 3DP035	RHR-D	RHR PUMP D	M-361, SHT 4	R3-8 091 Reactor Bldg - U3	OFF OFF/ON	30A18 -	30A1802 M-1-H-41-2, S-1146
2 3 5597	6 S ACTIVE	3AP42 3AP042	HPSW 3	HIGH PRESSURE SERVICE WATER PUMP A	M-315, SHT 3	P/H-9 111 Pump House	OFF ON	30A15 -	30A1507 M-11-29, E8-108-1
1 3 5599	6 S ACTIVE	3BP42 3BP042	HPSW 3	HIGH PRESSURE SERVICE WATER PUMP B	M-315, SHT 3	P/H-9 111 Pump House	OFF ON	30A16 -	30A1607 M-11-29, E8-108-1

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
2 3 5601	6 S ACTIVE	3CP42 3CP042	HPSW	HIGH PRESSURE SERVICE WATER PUMP C	M-315, SHT 3	P/H-9 111 Pump House	OFF ON	3OA17 -	30A1707 M-11-29, E8-108-1
1 3 5603	6 S ACTIVE	3DP42 3DP042	HPSW	HIGH PRESSURE SERVICE WATER PUMP D	M-315, SHT 3	P/H-9 111 Pump House	OFF ON	3OA18 -	30A1804 M-11-29, E8-108-1
3 3 2200	7 S ACTIVE	AO3-01-080A AO-3-01A-080A	MSIV	A MAIN STEAM LINE INBOARD ISOLATION VALVE	M-351, SHT 3	D/W3-18 134 Drywell - U3	OPEN CLOSED	N/A N/A	SV3-16-080A-1 SV3-16-080A-2 M-1-R-12/1,2
3 3 2202	7 S ACTIVE	AO3-01-080B AO-3-01A-080B	MSIV	B MAIN STEAM LINE INBOARD ISOLATION VALVE	M-351, SHT 3	D/W3-18 134 Drywell - U3	OPEN CLOSED	N/A N/A	SV3-16-080B-1 SV3-16-080B-2 M-1-R-12/1,2
3 3 2204	7 S ACTIVE	AO3-01-080C AO-3-01A-080C	MSIV	C MAIN STEAM LINE INBOARD ISOLATION VALVE	M-351, SHT 4	D/W3-19 134 Drywell - U3	OPEN CLOSED	N/A N/A	SV3-16-080C-1 SV3-16-080C-2 M-1-R-12/1,2
3 3 2206	7 S ACTIVE	AO3-01-080D AO-3-01A-080D	MSIV	D MAIN STEAM LINE INBOARD ISOLATION VALVE	M-351, SHT 4	D/W3-20 134 Drywell - U3	OPEN CLOSED	N/A N/A	SV3-16-080D-1 SV3-16-080D-2 M-1-R-12/1,2
3 3 2201	7 S ACTIVE	AO3-01-086A AO-3-01A-086A	MSIV	A MAIN STEAM LINE OUTBOARD ISOLATION VALVE	M-351, SHT 3	R3-30 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-16-086A-1 SV3-16-086A-2 M-1-R-12/1,2
3 3 2203	7 S ACTIVE	AO3-01-086B AO-3-01A-086B	MSIV	B MAIN STEAM LINE OUTBOARD ISOLATION VALVE	M-351, SHT 3	R3-30 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-16-086B-1 SV3-16-086B-2 M-1-R-12/1,2
3 3 2205	7 S ACTIVE	AO3-01-086C AO-3-01A-086C	MSIV	C MAIN STEAM LINE OUTBOARD ISOLATION VALVE	M-351, SHT 4	R3-30 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-16-086C-1 SV3-16-086C-2 M-1-R-12/1,2
3 3 2207	7 S ACTIVE	AO3-01-086D AO-3-01A-086D	MSIV	D MAIN STEAM LINE OUTBOARD ISOLATION VALVE	M-351, SHT 4	R3-30 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-16-086D-1 SV3-16-086D-2 M-1-R-12/1,2
3 3 1102	7 S ACTIVE	AO3-03-32A AO-3-03-032A	CRD	SCRAM DISCHARGE VOLUME INBOARD ISOLATION VENT VV	M-356, SHT 1	R3-22 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-3-32A M-1-D-11-3
3 3 1104	7 S ACTIVE	AO3-03-32B AO-3-03-032B	CRD	SCRAM DISCHARGE VOLUME INBOARD ISOLATION VENT VV	M-356, SHT 1	R3-23 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-3-32B M-1-D-11-3
3 3 1110	7 S ACTIVE	AO3-03-33 AO-3-03-033	CRD	SCRAM DISCHARGE VOLUME INBOARD ISOLATION DRAIN VV	M-356, SHT 2	R3-22 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-3-33 vendor 6-9M207-52

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 1106	7 S ACTIVE	AO3-03-35A AO-3-03-035A	CRD	SCRAM DISCHARGE VOLUME OUTBOARD ISOLATION VENT VV	M-356, SHT 1	R3-26 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-3-35A M-1-D-162
3 3 1108	7 S ACTIVE	AO3-03-35B AO-3-03-035B	CRD	SCRAM DISCHARGE VOLUME OUTBOARD ISOLATION VENT VV	M-356, SHT 1	R3-24 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-3-35B M-1-D-162
3 3 1112	7 S ACTIVE	AO3-03-36 AO-3-03-036	CRD	SCRAM DISCHARGE VOLUME OUTBOARD ISOLATION DRAIN VV	M-356, SHT 2	R3-22 135 Reactor Bldg - U3	OPEN CLOSED	N/A N/A	SV3-3-36 -
1 3 3204	7 B ACTIVE	HO3-23C-5512 HO-3-23C-5512	HPCI	HPCI TURBINE GOVERNOR CONTROL VALVE 30S37	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OPEN OPERABLE	N/A N/A	- -
1 3 3203	7 B ACTIVE	HO3-23C-5513 HO-3-23C-5513	HPCI	HPCI TURBINE STOP VALVE 30S37	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OPEN OPEN	N/A N/A	SV3-23A-5543 M-1-J-20
1 3 3213	7 S PASSIVE	PCV3-23B-50 PCV-3-23-050	HPCI	HPCI COOLING WATER TO LO. COOLER AND GLAND SEAL CDSR	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
3 3 2100	7 SR ACTIVE	RV3-02-071A RV-3-02-071A	SRV 4	A SAFETY RELIEF VALVE	M-351, SHT 3	D/W3-27 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	- M-1-R-1-12, M-1-R-5-4,
3 3 2106	7 SR ACTIVE	RV3-02-071B RV-3-02-071B	SRV 4	B SAFETY RELIEF VALVE	M-351, SHT 3	D/W3-29 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	- M-1-R-1-12, M-1-R-5-4,
3 3 2112	7 SR ACTIVE	RV3-02-071C RV-3-02-071C	SRV 4	C SAFETY RELIEF VALVE	M-351, SHT 3	D/W3-26 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	- M-1-R-1-12, M-1-R-5-4,
3 3 2118	7 SR ACTIVE	RV3-02-071D RV-3-02-071D	SRV 4	D SAFETY RELIEF VALVE	M-351, SHT 3	D/W3-26 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
3 3 2120	7 SR ACTIVE	RV3-02-071E RV-3-02-071E	SRV 4	E SAFETY RELIEF VALVE	M-351, SHT 3	D/W3-29 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
3 3 2122	7 SR ACTIVE	RV3-02-071F RV-3-02-071F	SRV 4	F SAFETY RELIEF VALVE	M-351, SHT 3	D/W3-29 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
3 3 2124	7 SR ACTIVE	RV3-02-071G RV-3-02-071G	SRV 4	G SAFETY RELIEF VALVE	M-351, SHT 4	D/W3-29 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	- M-1-R-1-12, M-1-R-5-4,

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 2130	7 SR ACTIVE	RV3-02-071H RV-3-02-071H	SRV 4	H SAFETY RELIEF VALVE	M-351, SHT 4	D/W3-35 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
3 3 2132	7 SR ACTIVE	RV3-02-071J RV-3-02-071J	SRV 4	J SAFETY RELIEF VALVE	M-351, SHT 4	D/W3-32 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
3 3 2134	7 SR ACTIVE	RV3-02-071K RV-3-02-071K	SRV 4	K SAFETY RELIEF VALVE	M-351, SHT 4	D/W3-34 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	- M-1-R-1-12, M-1-R-5-4,
3 3 2140	7 SR ACTIVE	RV3-02-071L RV-3-02-071L	SRV 4	L SAFETY RELIEF VALVE	M-351, SHT 4	D/W3-32 154 Drywell - U3	CLOSED OPEN/CLOSED	30D23 -	INSTR. N2 M-1-R-1-12, M-1-R-5-4,
1 3 3225	7 S PASSIVE	RV3-23-034 RV-3-23B-034	HPCI	HPCI PUMP SUCTION HEADER RELIEF VALVE	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- DS-M-204/3
2 3 4106	8 N/A PASSIVE	CV3-10-3677A CV-3-10-3677A	RHR-A 3, 8	RHR PUMP 3AP035 DISCHARGE CONTROL VALVE	M-361, SHT 3	R3-5 091 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
1 3 4406	8 N/A PASSIVE	CV3-10-3677D CV-3-10-3677D	RHR-D 8	RHR PUMP 3DP035 DISCHARGE CONTROL VALVE	M-361, SHT 4	R3-8 091 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
3 3 2208	8 R PASSIVE	MO3-02-74 MO-3-01A-074	MSIV	MAIN STEAM LINES INBOARD DRAIN ISOL VALVE	M-351, SHT 3	D/W3-19 134 Drywell - U3	CLOSED CLOSED	N/R N/R	- -
1 3 3235	8 R PASSIVE	MO3-06-029A MO-3-06-029A	HPCI	FEEDWATER STOP VALVE	M-351, SHT 3	D/W3-29 154 Drywell - U3	OPEN OPEN	N/R N/R	- -
1 3 3234	8 R PASSIVE	MO3-06-038A MO-3-06-038A	HPCI	FW LONG PATH RECIRC ISOLATION VALVE	M-351, SHT 3	R3-30 135 Reactor Bldg - U3	CLOSED CLOSED	N/R N/R	- -
2 3 4101	8 R PASSIVE	MO3-10-013A MO-3-10-013A	RHR-A 3	RHR PUMP 3AP035 TORUS SUCTION ISOLATION VV	M-361, SHT 3	R3-5 091 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
1 3 4201	8 R PASSIVE	MO3-10-013B MO-3-10-013B	RHR-B 3	RHR PUMP 3BP035 TORUS SUCTION ISOLATION VV	M-361, SHT 4	R3-6 091 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
2 3 4301	8 R PASSIVE	MO3-10-013C MO-3-10-013C	RHR-C	RHR PUMP 3CP035 TORUS SUCTION ISOLATION VV	M-361, SHT 3	R3-7 091 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 3 4401	8 R PASSIVE	MO3-10-013D MO-3-10-013D	RHR-D	RHR PUMP 3DP035 TORUS SUCTION ISOLATION VV	M-361, SHT 4	R3-8 091 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
2 3 4102	8 R PASSIVE	MO3-10-015A MO-3-10-015A	RHR-A 3	RHR PUMP 3AP035 SHUTDOWN COOLING SUCTION	M-361, SHT 3	R3-5 091 Reactor Bldg - U3	CLOSED CLOSED	N/R N/R	- -
1 3 4202	8 R PASSIVE	MO3-10-015B MO-3-10-015B	RHR-B 3	RHR PUMP 3BP035 SUCTION FOR SHUTDOWN CLG	M-361, SHT 4	R3-18 116 Reactor Bldg - U3	CLOSED CLOSED	N/R N/R	- -
2 3 4302	8 R PASSIVE	MO3-10-015C MO-3-10-015C	RHR-C	RHR PUMP 3CP035 SUCTION FOR SHUTDOWN CLG	M-361, SHT 3	R3-17 116 Reactor Bldg - U3	CLOSED CLOSED	N/R N/R	- -
1 3 4402	8 R PASSIVE	MO3-10-015D MO-3-10-015D	RHR-D	RHR PUMP 3DP035 SUCTION FOR SHUTDOWN CLG	M-361, SHT 4	R3-8 091 Reactor Bldg - U3	CLOSED CLOSED	N/R N/R	- -
2 3 4104	8A SR ACTIVE	MO3-10-016A MO-3-10-016A	RHR-A 3	RHR PUMP 3AP035 MIN FLOW RECIRC BLOCK VALVE	M-361, SHT 3	R3-5 091 Reactor Bldg - U3	CLOSED OPEN/CLOSED	30B36 -	- M-102B-49
1 3 4204	8A SR ACTIVE	MO3-10-016B MO-3-10-016B	RHR-B 3	RHR PUMP 3BP035 MIN FLOW RECIRC BLOCK VALVE	M-361, SHT 4	R3-6 091 Reactor Bldg - U3	CLOSED OPEN/CLOSED	30B37 -	- M-102B-49
2 3 4304	8A SR ACTIVE	MO3-10-016C MO-3-10-016C	RHR-C	RHR PUMP 3CP035 MIN FLOW RECIRC BLOCK VALVE	M-361, SHT 3	R3-7 091 Reactor Bldg - U3	CLOSED OPEN/CLOSED	30B38 -	- M-102B-49
1 3 4404	8A SR ACTIVE	MO3-10-016D MO-3-10-016D	RHR-D	RHR PUMP 3DP035 MIN FLOW RECIRC BLOCK VALVE	M-361, SHT 4	R3-8 091 Reactor Bldg - U3	CLOSED OPEN/CLOSED	30B39 -	- M-102B-49
3 3 2212	8 R PASSIVE	MO3-10-018 MO-3-10-018	RHR	RHR PUMPS SUCTION FOR SHUTDOWN COOLING INBD ISOL	M-361, SHT 3	D/W3-15 134 Drywell - U3	CLOSED CLOSED	N/R N/R	- -
2 3 4316	8A SR ACTIVE	MO3-10-025A MO-3-10-025A	RHR-C 10	RHR INNER INJECTION VALVE TO RECIRC LOOP A	M-361, SHT 3	R3-25 135 Reactor Bldg - U3	CLOSED CLOSED/OPEN	30B36 -	- M-1-H-31-5
1 3 4416	8A SR ACTIVE	MO3-10-025B MO-3-10-025B	RHR-D 10	RHR INNER INJECTION VALVE TO RECIRC LOOP B	M-361, SHT 4	R3-27 135 Reactor Bldg - U3	CLOSED CLOSED/OPEN	30B39 -	- M-1-H-31-5
2 3 4311	8 R PASSIVE	MO3-10-026A MO-3-10-026A	RHR-C	RHR CONTAINMENT SPRAY OUTER ISOLATION VALVE	M-361, SHT 3	R3-25 135 Reactor Bldg - U3	CLOSED CLOSED	N/R N/R	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 3 4411	B R PASSIVE	MO3-10-026B MO-3-10-026B	RHR-D	RHR CONTAINMENT SPRAY OUTER ISOLATION VALVE	M-361, SHT 4	R3-27 135 Reactor Bldg - U3	CLOSED CLOSED	N/R N/R	- -
2 3 4313	8A SR ACTIVE	MO3-10-034A MO-3-10-034A	RHR-C 9	RHR LOOP A FULL FLOW TEST LINE BLOCK VV	M-361, SHT 3	R3-110 125 Reactor Bldg - U3	CLOSED CLOSED/OPEN	30B38 -	- M-102B-62
1 3 4413	8A SR ACTIVE	MO3-10-034B MO-3-10-034B	RHR-D 9	RHR LOOP B FULL FLOW TEST LINE BLOCK VALVE	M-361, SHT 4	R3-105 125 Reactor Bldg - U3	CLOSED CLOSED/OPEN	30B39 -	- M-102B-62
2 3 4312	8A SR ACTIVE	MO3-10-039A MO-3-10-039A	RHR-C 9	RHR LOOP A OUTER BLOCK FOR TORUS COOLING SPRAY	M-361, SHT 3	R3-98 116 Reactor Bldg - U3	CLOSED CLOSED/OPEN	30B38 -	- M-1-H-32
1 3 4412	8A SR ACTIVE	MO3-10-039B MO-3-10-039B	RHR-D 9	RHR LOOP B OUTER BLOCK FOR TORUS COOLING SPRAY	M-361, SHT 4	R3-93 116 Reactor Bldg - U3	CLOSED CLOSED/OPEN	30B39 -	- M-1-H-32
2 3 4314	B R PASSIVE	MO3-10-154A MO-3-10-154A	RHR-C	RHR LOOP A RECIRC OUTER INJECTION VALVE	M-361, SHT 3	R3-99 116 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
1 3 4414	B R PASSIVE	MO3-10-154B MO-3-10-154B	RHR-D	RHR LOOP B RECIRC OUTER INJECTION VALVE	M-361, SHT 4	R3-92 116 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
2 3 5596	B R PASSIVE	MO3-10-176 MO-3-10-176	HPSW	HPSW TO RHR SYSTEM OUTER CROSS-TIE	M-315, SHT 3	R3-7 091 Reactor Bldg - U3	CLOSED CLOSED	N/R N/R	- -
2 3 5595	8A SR ACTIVE	MO3-10-89A MO-3-10-089A	HPSW	RHR HX 3AE024 HPSW OUTLET VALVE	M-315, SHT 3	R3-16 116 Reactor Bldg - U3	CLOSED CLOSED/OPEN	30B36 -	- M-102B-60
1 3 5594	8A SR ACTIVE	MO3-10-89B MO-3-10-089B	HPSW	RHR HX 3BE024 HPSW OUTLET VALVE	M-315, SHT 3	R3-18 116 Reactor Bldg - U3	CLOSED CLOSED/OPEN	30B37 -	- M-102B-60
2 3 5593	8A SR ACTIVE	MO3-10-89C MO-3-10-089C	HPSW	RHR HX 3CE024 HPSW OUTLET VALVE	M-315, SHT 3	R3-17 116 Reactor Bldg - U3	CLOSED OPEN/CLOSED	30B38 -	- M-102B-60
1 3 5592	8A SR ACTIVE	MO3-10-89D MO-3-10-089D	HPSW	RHR HX 3DE024 HPSW OUTLET VALVE	M-315, SHT 3	R3-19 116 Reactor Bldg - U3	CLOSED OPEN/CLOSED	30B39 -	- M-102B-60
3 3 2209	8A SR ACTIVE	MO3-12-015 MO-3-12-015	MSIV	RWCU INLET INBOARD ISOLATION VALVE	M-354, SHT 2	D/W3-25 154 Drywell - U3	OPEN CLOSED	30B36 -	- M-102B-33

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 2210	8A SR ACTIVE	MO3-12-018 MO-3-12-018	MSIV	RWCU INLET OUTBOARD ISOLATION VALVE	M-354, SHT 2	R3-33 165 Reactor Bldg - U3	OPEN CLOSED	30D11 -	- M-102B-33
1 3 3202	8A SR ACTIVE	MO3-23-014 MO-3-23-014	HPCI	HPCI TURBINE STEAM SUPPLY VALVE	M-365, SHT 2	R3-13 088 Reactor Bldg - U3	CLOSED OPEN	30D11 -	- M-102B-42
1 3 3200	8 R PASSIVE	MO3-23-015 MO-3-23-015	HPCI	HPCI TURBINE STEAM LINE INBOARD ISOLATION VALVE	M-365, SHT 2	D/W3-15 134 Drywell - U3	OPEN OPEN	N/R N/R	- -
1 3 3201	8 R PASSIVE	MO3-23-016 MO-3-23-016	HPCI	HPCI TURBINE STEAM LINE OUTBOARD ISOLATION VALVE	M-365, SHT 2	R3-27 135 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
1 3 3224	8A SR ACTIVE	MO3-23-017 MO-3-23-017	HPCI	HPCI CONDENSATE STORAGE TANK SUCTION	M-365, SHT 2	R3-13 088 Reactor Bldg - U3	OPEN OPEN/CLOSED	30D11 -	- -
1 3 3231	8A SR ACTIVE	MO3-23-019 MO-3-23-019	HPCI	HPCI DISCHARGE TO FEEDWATER LINE A	M-365, SHT 2	R3-30 135 Reactor Bldg - U3	CLOSED OPEN	30D11 -	- M-102B-29-7
1 3 3229	8 R PASSIVE	MO3-23-020 MO-3-23-020	HPCI	HPCI PUMP DISCHARGE VALVE	M-365, SHT 2	R3-13 088 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
1 3 3230	8 R PASSIVE	MO3-23-021 MO-3-23-021	HPCI	HPCI FULL FLOW TEST VALVE	M-365, SHT 2	R3-96 116 Reactor Bldg - U3	CLOSED CLOSED	N/R N/R	- -
1 3 3228	8A SR ACTIVE	MO3-23-025 MO-3-23-025	HPCI	HPCI MINIMUM FLOW VALVE	M-365, SHT 2	R3-13 088 Reactor Bldg - U3	CLOSED OPEN/CLOSED	30D11 -	- M-1-J-44-4
1 3 3222	8A SR ACTIVE	MO3-23-057 MO-3-23-057	HPCI	HPCI TORUS SUCTION OUTBOARD ISOLATION VALVE	M-365, SHT 2	R3-13 088 Reactor Bldg - U3	CLOSED OPEN	30D11 -	- M-102B-33F-1
1 3 3221	8A SR ACTIVE	MO3-23-058 MO-3-23-058	HPCI	HPCI TORUS SUCTION INBOARD ISOLATION VALVE	M-365, SHT 2	R3-13 088 Reactor Bldg - U3	CLOSED OPEN	30D11 -	- M-102B-33F-1
1 3 3219	8 R PASSIVE	MO3-23C-5244A MO-3-23B-5445	HPCI 13	HPCI TURBINE EXHAUST LINE VACUUM BREAKER VALVE	M-365, SHT 2	R3-98 116 Reactor Bldg - U3	OPEN OPEN	N/R N/R	- -
3 3 5629	8A SR ACTIVE	MO3-30-3233A MO-3-30-3233A	ESW & HPSW	UNIT 3 A SLUICE GATE	M-330	S/H-4 116 Screen House	OPEN CLOSED	00B62 -	- C-316

TRAIN / Unit / Line No	SQUG CI / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
3	8A	MO3-30-3233B	ESW & HPSW	UNIT 3 B SLUICE GATE	M-330	S/H-4	OPEN	00B61	-
3	SR					116			
5630	ACTIVE	MO-3-30-3233B				Screen House	CLOSED	-	C-316
3	8A	MO3-32-3486	HPSW	HPSW RETURN VALVE TO DISCHARGE POND	M-330	D/G-2	OPEN	00B54	-
3	SR					121			
5611	ACTIVE	MO-3-32-3486				Diesel Generator	CLOSED	-	M-102B-125 SH5
3	8A	MO3-32-3803	HPSW	HPSW RETURN VALVE TO EMERGENCY COOLING TOWER	M-330	D/G-2	CLOSED	00B56	-
3	SR					121			
5613	ACTIVE	MO-3-32-3803				Diesel Generator	OPEN	-	-
3	8	MO3-33-3344	ESW & HPSW	HPSW LOOP 3A TO LOOP 3B CROSSTIE	M-315, SHT 3	P/H-9	CLOSED	N/R	-
3	SR					111			
5609	ACTIVE	MO-3-32-3344	5			Pump House	CLOSED	N/R	-
3	8	MO3-33-3972	ESW & HPSW	U/3 SAFEGUARDS AND RBCW HX ISOL FROM ESW PUMP 0BP057	M-315, SHT 4	T3-45	OPEN	N/R	-
3	R					116			
5590	PASSIVE	MO-3-33-3972				Turbine Bldg - U3	OPEN	N/R	-
3	8A	MO3-48-3804A	ESW & HPSW	U/3 HPSW BAY INLET OUTER	M-330	ECT-1	CLOSED	00B38	-
3	SR					114			
5635	ACTIVE	MO-3-48-3804A				Emergency Cooling Towers	OPEN	-	-
3	8A	MO3-48-3804B	ESW & HPSW	U/3 HPSW BAY INLET INNER	M-330	ECT-1	CLOSED	00B97	-
3	SR					114			
5636	ACTIVE	MO-3-48-3804B				Emergency Cooling Towers	OPEN	-	-
3	8B	SV-9130A	BACKUP INST N2	ADS BACKUP NITROGEN A HDR SUPPLY TO DRYWELL	M-333, SHT 2	R3-23	DEENERGIZED	30Y35	-
3	SR					135			
6100	ACTIVE	SV-3-16A-9130A				Reactor Bldg - U3	ENERGIZED	-	-
3	8B	SV-9130B	BACKUP INST N2	ADS BACKUP NITROGEN B HDR SUPPLY TO DRYWELL	M-333, SHT 2	R3-25	DEENERGIZED	00Y03	-
3	SR					135			
6101	ACTIVE	SV-3-16A-9130B				Reactor Bldg - U3	ENERGIZED	-	-
3	8	SV3-16-080A-1	MSIV	BACKUP DC SOLENOID FOR N2 SUPPLY TO AO-3-01A-080A	M-351, SHT 3	D/W3-18	ENERGIZED	N/R	-
3	BR					134			
2216	ACTIVE	SV-3-16-080A-1		AO3-01-080A		Drywell - U3	DEENERGIZED	N/R	-
3	8	SV3-16-080A-2	MSIV	AC SOLENOID FOR NITROGEN SUPPLY TO AO-3-01A-080A	M-351, SHT 3	D/W3-18	ENERGIZED	N/R	-
3	BR					134			
2217	ACTIVE	SV-3-16-080A-2		AO3-01-080A		Drywell - U3	DEENERGIZED	N/R	-
3	8	SV3-16-080B-1	MSIV	BACKUP DC SOLENOID FOR N2 SUPPLY TO AO-3-01A-080B	M-351, SHT 3	D/W3-18	ENERGIZED	N/R	-
3	BR					134			
2228	ACTIVE	SV-3-16-080B-1		AO3-01-080B		Drywell - U3	DEENERGIZED	N/R	-
3	8	SV3-16-080B-2	MSIV	AC SOLENOID FOR NITROGEN SUPPLY TO AO-3-01A-080B	M-351, SHT 3	D/W3-18	ENERGIZED	N/R	-
3	BR					134			
2229	ACTIVE	SV-3-16-080B-2		AO3-01-080B		Drywell - U3	DEENERGIZED	N/R	-

TRAIN / Unit / Line No	SQUG Cl / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
3	8	SV3-16-080C-1	MSIV	BACKUP DC SOLENOID FOR N2 SUPPLY TO AO-3-01A-080C	M-351, SHT 4	D/W3-19	ENERGIZED	N/R	-
3	BR					134			
2222	ACTIVE	SV-3-16-080C-1		AO3-01-080C		Drywell - U3	DEENERGIZED	N/R	-
3	8	SV3-16-080C-2	MSIV	AC SOLENOID FOR NITROGEN SUPPLY TO AO-3-01A-080C	M-351, SHT 4	D/W3-19	ENERGIZED	N/R	-
3	BR					134			
2223	ACTIVE	SV-3-16-080C-2		AO3-01-080C		Drywell - U3	DEENERGIZED	N/R	-
3	8	SV3-16-080D-1	MSIV	BACKUP DC SOLENOID FOR N2 SUPPLY TO AO-3-01A-080D	M-351, SHT 4	D/W3-20	ENERGIZED	N/R	-
3	BR					134			
2234	ACTIVE	SV-3-16-080D-1		AO3-01-080D		Drywell - U3	DEENERGIZED	N/R	-
3	8	SV3-16-080D-2	MSIV	AC SOLENOID FOR NITROGEN SUPPLY TO AO-3-01A-080D	M-351, SHT 4	D/W3-20	ENERGIZED	N/R	-
3	BR					134			
2235	ACTIVE	SV-3-16-080D-2		AO3-01-080D		Drywell - U3	DEENERGIZED	N/R	-
1	8B	SV3-23A-5543	HPCI	HPCI TURBINE STOP VALVE REMOTE TRIP VALVE	M-366, SHT 4	R3-13	CLOSED	30D22	-
3	BR					088			
	ACTIVE	SV-3-23A-5543		30S37		Reactor Bldg - U3	OPEN	-	-
1	8B	SV3-23C-54	HPCI	HPCI TURBINE EXHAUST HDR DRAIN POTS DRAIN VALVE	M-366, SHT 4	R3-13	CLOSED	30D22	-
3	SR					088			
3209	ACTIVE	SV-3-23-054				Reactor Bldg - U3	OPEN	-	M-205-D-21
3	8	SV3-3-32A	CRD	INSTR AIR SOLENOID VALVE FOR AO-3-03-032A	M-356, SHT 2	R3-22	ENERGIZED	N/R	-
3	BR					135			
1103	ACTIVE	SV-3-03-032A		AO3-03-32A		Reactor Bldg - U3	DEENERGIZED	N/R	-
3	8	SV3-3-32B	CRD	INSTR AIR SOLENOID VALVE FOR AO-3-03-032B	M-356, SHT 2	R3-23	ENERGIZED	N/R	-
3	BR					135			
1105	ACTIVE	SV-3-03-032B		AO3-03-32B		Reactor Bldg - U3	DEENERGIZED	N/R	-
3	8B	SV3-3-33	CRD	INSTR AIR SOLENOID VALVE FOR AO-3-03-033	M-356, SHT 2	R3-22	ENERGIZED	N/R	-
3	SR					135			
1111	ACTIVE	SV-3-03-033		AO3-03-33		Reactor Bldg - U3	DEENERGIZED	N/R	-
3	8	SV3-3-35A	CRD	INSTR AIR SOLENOID VALVE FOR AO-3-03-035A	M-356, SHT 2	R3-26	ENERGIZED	N/R	-
3	BR					135			
1107	ACTIVE	SV-3-03-035A		AO3-03-35A		Reactor Bldg - U3	DEENERGIZED	N/R	-
3	8	SV3-3-35B	CRD	INSTR AIR SOLENOID VALVE FOR AO-3-03-035B	M-356, SHT 2	R3-23	ENERGIZED	N/R	-
3	BR					135			
1109	ACTIVE	SV-3-03-035B		AO3-03-35B		Reactor Bldg - U3	DEENERGIZED	N/R	-
3	8	SV3-3-36	CRD	INSTR AIR SOLENOID VALVE FOR AO-3-03-036	M-356, SHT 2	R3-22	ENERGIZED	N/R	-
3	BR					135			
1113	ACTIVE	SV-3-03-036		AO3-03-36		Reactor Bldg - U3	DEENERGIZED	N/R	-
3	8	SV3-36-086A-1	MSIV	BACKUP DC SOLENOID FOR I/A SUPPLY TO AO-3-01A-086A	M-351, SHT 3	R3-30	ENERGIZED	N/R	-
3	BR					135			
2219	ACTIVE	SV-3-36B-086A-1		AO3-01-086A		Reactor Bldg - U3	DEENERGIZED	N/R	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 2220	8 BR ACTIVE	SV3-36-086A-2 SV-3-36B-086A-2	MSIV	AC SOLENOID FOR I/A SUPPLY TO AO-3-01A-086A AO3-01-086A	M-351, SHT 3	R3-30 135 Reactor Bldg - U3	ENERGIZED DEENERGIZED	N/R N/R	-
3 3 2231	8 BR ACTIVE	SV3-36-086B-1 SV-3-36B-086B-1	MSIV	BACKUP DC SOLENOID FOR I/A SUPPLY TO AO-3-01A-086B AO3-01-086B	M-351, SHT 3	R3-30 135 Reactor Bldg - U3	ENERGIZED DEENERGIZED	N/R N/R	-
3 3 2232	8 BR ACTIVE	SV3-36-086B-2 SV-3-36B-086B-2	MSIV	AC SOLENOID FOR I/A SUPPLY TO AO-3-01A-086B AO3-01-086B	M-351, SHT 3	R3-30 135 Reactor Bldg - U3	ENERGIZED DEENERGIZED	N/R N/R	-
3 3 2225	8 BR ACTIVE	SV3-36-086C-1 SV-3-36B-086C-1	MSIV	BACKUP DC SOLENOID FOR I/A SUPPLY TO AO-3-01A-086C AO3-01-086C	M-351, SHT 4	R3-30 135 Reactor Bldg - U3	ENERGIZED DEENERGIZED	N/R N/R	-
3 3 2226	8 BR ACTIVE	SV3-36-086C-2 SV-3-36B-086C-2	MSIV	AC SOLENOID FOR I/A SUPPLY TO AO-3-01A-086C AO3-01-086C	M-351, SHT 4	R3-30 135 Reactor Bldg - U3	ENERGIZED DEENERGIZED	N/R N/R	-
3 3 2237	8 BR ACTIVE	SV3-36-086D-1 SV-3-36B-086D-1	MSIV	BACKUP DC SOLENOID FOR I/A SUPPLY TO AO-3-01A-086D AO3-01-086D	M-351, SHT 4	R3-30 135 Reactor Bldg - U3	ENERGIZED DEENERGIZED	N/R N/R	-
3 3 2238	8 BR ACTIVE	SV3-36-086D-2 SV-3-36B-086D-2	MSIV	AC SOLENOID FOR I/A SUPPLY TO AO-3-01A-086D AO3-01-086D	M-351, SHT 4	R3-30 135 Reactor Bldg - U3	ENERGIZED DEENERGIZED	N/R N/R	-
1 3	9 SR ACTIVE	3AV060	HPSW HVAC	HPSW PUMP ROOM SUPPLY FAN A	M-396, SHT 1	P/H-9 112 Pump House	AUTO ON	- -	-
1 3	9 SR ACTIVE	3AV083	HPSW HVAC	HPSW PUMP ROOM EXHAUST FAN A	M-396, SHT 1	P/H-9 112 Pump House	AUTO ON	- -	-
1 3	9 SR ACTIVE	3BV060	HPSW HVAC	HPSW PUMP ROOM SUPPLY FAN B	M-396, SHT 1	P/H-9 112 Pump House	AUTO ON	- -	-
1 3	9 SR ACTIVE	3BV083	HPSW HVAC	HPSW PUMP ROOM EXHAUST FAN B	M-396, SHT 1	P/H-9 112 Pump House	AUTO ON	- -	-
3 3 5586	10 S PASSIVE	3AE55 3AE055	ESW PBO	RCIC PUMP ROOM COOLING COIL A	M-315, SHT 4	R3-14 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5587	10 S PASSIVE	3AE56 3AE056	ESW PBO	HPCI PUMP ROOM COOLING COIL A	M-315, SHT 4	R3-13 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 5577	10 S PASSIVE	3AE57 3AE057	ESW PBO	A CORE SPRAY ROOM COOLING COIL A	M-315, SHT 4	R3-9 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5565	10 S PASSIVE	3AE58 3AE058	ESW PBO	A RHR ROOM COOLING COIL A	M-315, SHT 4	R3-16 116 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5585	10 S PASSIVE	3BE55 3BE055	ESW PBO	RCIC PUMP ROOM COOLING COIL B	M-315, SHT 4	R3-14 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5588	10 S PASSIVE	3BE56 3BE056	ESW PBO	HPCI PUMP ROOM COOLING COIL B	M-315, SHT 4	R3-13 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5578	10 S PASSIVE	3BE57 3BE057	ESW PBO	A CORE SPRAY ROOM COOLING COIL B	M-315, SHT 4	R3-9 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5566	10 S PASSIVE	3BE58 3BE058	ESW PBO	A RHR ROOM COOLING COIL B	M-315, SHT 4	R3-5 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5579	10 S PASSIVE	3CE57 3CE057	ESW PBO	C CORE SPRAY ROOM COOLING COIL C	M-315, SHT 4	R3-11 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5567	10 S PASSIVE	3CE58 3CE058	ESW PBO	C RHR ROOM COOLING COIL C	M-315, SHT 4	R3-7 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5580	10 S PASSIVE	3DE57 3DE057	ESW PBO	C CORE SPRAY ROOM COOLING COIL D	M-315, SHT 4	R3-11 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5568	10 S PASSIVE	3DE58 3DE058	ESW PBO	C RHR ROOM COOLING COIL D	M-315, SHT 4	R3-7 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5581	10 S PASSIVE	3EE57 3EE057	ESW PBO	B CORE SPRAY ROOM COOLING COIL E	M-315, SHT 4	R3-10 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5569	10 S PASSIVE	3EE58 3EE058	ESW PBO	B RHR ROOM COOLING COIL E	M-315, SHT 4	R3-6 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5582	10 S PASSIVE	3FE57 3FE057	ESW PBO	B CORE SPRAY ROOM COOLING COIL F	M-315, SHT 4	R3-10 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 5570	10 S PASSIVE	3FE58 3FE058	ESW PBO	B RHR ROOM COOLING COIL F	M-315, SHT 4	R3-6 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5583	10 S PASSIVE	3GE57 3GE057	ESW PBO	D CORE SPRAY ROOM COOLING COIL G	M-315, SHT 4	R3-12 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5571	10 S PASSIVE	3GE58 3GE058	ESW PBO	D RHR ROOM COOLING COIL G	M-315, SHT 4	R3-19 116 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5584	10 S PASSIVE	3HE57 3HE057	ESW PBO	D CORE SPRAY ROOM COOLING COIL H	M-315, SHT 4	R3-12 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
3 3 5572	10 S PASSIVE	3HE58 3HE058	ESW PBO	D RHR ROOM COOLING COIL H	M-315, SHT 4	R3-8 91-6 Reactor Bldg - U3	N/A N/A	N/R N/R	- M-77 Series
1 3	10 S ACTIVE	PO30223-1	HPSW HVAC	HPSW PUMP ROOM "B" LOOP SUPPLY DAMPER	M-396, SHT 1	P/H-9 112 Pump House	OPEN OPEN	- -	- -
1 3	10 S ACTIVE	PO30223-2	HPSW HVAC	HPSW PUMP ROOM "B" LOOP EXHAUST DAMPER	M-396, SHT 1	P/H-9 112 Pump House	CLOSED CLOSED/OPEN	- -	- -
1 3	10 S ACTIVE	PO30223-3	HPSW HVAC	HPSW PUMP ROOM "A" LOOP SUPPLY DAMPER	M-396, SHT 1	P/H-9 112 Pump House	OPEN OPEN	- -	- -
1 3	10 S ACTIVE	PO30223-4	HPSW HVAC	HPSW PUMP ROOM "A" LOOP EXHAUST DAMPER	M-396, SHT 1	P/H-9 112 Pump House	CLOSED CLOSED/OPEN	- -	- -
3 3 8000	14 S ACTIVE	30D22 30D022	EPS-3B	3PPB DISTRIBUTION PANEL 125VDC	E-27, SHT 1	T3-81 150 Turbine Bldg - U3	ENERGIZED ENERGIZED	3BD03 -	3BD19 E-16-1-8
3 3 8711	14 S ACTIVE	30D23 30D023	EPS-3C	3PPC DISTRIBUTION PANEL 125V DC	E-27, SHT 1	T3-81 150 Turbine Bldg - U3	ENERGIZED ENERGIZED	3CD03 -	3CD19 E-16-1-8
3 3 8813	14 S ACTIVE	30D24 30D024	EPS-3D	3PPD 125V DC DISTRIBUTION PANEL	E-27, SHT 1	T3-81 150 Turbine Bldg - U3	ENERGIZED ENERGIZED	3DD03 -	3DD19 E-16-1-8
3 3 8000	14 SR ACTIVE	30S315 30S315	EPS-3B	BYPASS/ISOLATION SWITCH	E-29	T3-81 150 Turbine Bldg - U3	ENERGIZED ENERGIZED	30D37 -	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 8000	14 S ACTIVE	30Y33 30Y033	EPS-3A	120VAC DISTRIBUTION PANEL	E-29	T3-81 150 Turbine Bldg - U3	ENERGIZED ENERGIZED	30X133 -	- -
3 3 8001	14 S ACTIVE	30Y35 30Y035	EPS-3C	120VAC DISTRIBUTION PANEL	E-29	R3-29 135 Reactor Bldg - U3	ENERGIZED ENERGIZED	30X135 -	- -
3 3 8000	14 S ACTIVE	30Y50 30Y050	EPS-3B	120VAC DISTRIBUTION PANEL	E-29	T3-81 150 Turbine Bldg - U3	ENERGIZED ENERGIZED	30D08 30X150 -	30D37 -
3 3 8609	14 S ACTIVE	3BD17 3BD017	EPS-3B	250 VOLT FUSE BOX	E-27, SHT 1	T3-70 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	N/A -	3BD01 E16-2-6
3 3 8612	14 S ACTIVE	3BD18 3BD018	EPS-3B	3DPB DISTRIBUTION PANEL, 250V DC	E-27, SHT 1	T3-70 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	3BD03 3DD03	3BD17 3DD17 E16-2-6
3 3 8610	14 S ACTIVE	3BD19 3BD019	EPS-3B	250 VOLT FUSE BOX	E-27, SHT 1	T3-70 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	N/A -	3BD17 E16-2-6
3 3 8708	14 S ACTIVE	3CD17 3CD017	EPS-3C	250 VOLT FUSE BOX	E-27, SHT 1	T3-70 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	N/A -	3CD01 E16-2-6
3 3 8709	14 S ACTIVE	3CD19 3CD019	EPS-3C	250 VOLT FUSE BOX	E-27, SHT 1	T3-70 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	N/A -	3CD17 E16-2-6
3 3 8810	14 S ACTIVE	3DD17 3DD017	EPS-3D	250 VOLT FUSE BOX	E-27, SHT 1	T3-70 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	N/A -	3DD01 E16-2-6
3 3 8811	14 S ACTIVE	3DD19 3DD019	EPS-3D	250 VOLT FUSE BOX	E-27, SHT 1	T3-70 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	N/A -	3DD17 E16-2-6
3 3 8000	14 S ACTIVE	3DD306 3DD306	EPS-3D	125VDC DIST. PANEL (3PPD)	E-27, SHT 2	T3-172 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	3DD03 -	- U3 ONLY??
3 3 8000	15 S ACTIVE	3AD01 3AD001	EPS-3A	"3A" BATTERY 125V DC	E-27, SHT 1	T3-70 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	3AD03 -	- E-13-34 to 37,
3 3 8608	15 S ACTIVE	3BD01 3BD001	EPS-3B	"3B" BATTERY 125V DC	E-27, SHT 1	T3-169 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	3BD03 -	- E-13-34 to 37,

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 8707	15 S ACTIVE	3CD01 3CD001	EPS-3C	"3C" BATTERY 125V DC	E-27, SHT 1	T3-70 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	3CD03 -	- E-13-34 to 37,
3 3 8809	15 S ACTIVE	3DD01 3DD001	EPS-3D	"3D" BATTERY 125VDC	E-27, SHT 1	T3-169 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	3DD03 -	- E-13-34 to 37,
3 3 8000	16 SR ACTIVE	30D37 30D037	EPS-3B	STATIC INVERTER	E-29	T3-74 135 Turbine Bldg - U3	ENERGIZED ENERGIZED	30D08 30X150 -	- 6280-E45
3 3 8000	16 S ACTIVE	3AD03 3AD003	EPS-3A	"3A" 125V STATION BATTERY CHARGER	E-27, SHT 1	T3-170 135 Turbine Bldg - U3	ON ON	30B59(N) 20B59(A)	- NE-102
3 3 8611	16 S ACTIVE	3BD03 3BD003	EPS-3B	3BCB BATTERY CHARGER 125V DC	E-27, SHT 1	T3-171 135 Turbine Bldg - U3	ON ON	30B60 -	- NE-102
3 3 8710	16 S ACTIVE	3CD03 3CD003	EPS-3C	3BCC BATTERY CHARGER, 125V, DC	E-27, SHT 1	T3-170 135 Turbine Bldg - U3	ON ON	30B38(N) 00B49(A)	3CS456 30S704 NE-102
3 3 8812	16 S ACTIVE	3DD03 3DD003	EPS-3D	3BCD BATTERY CHARGER, 125V DC	E-27, SHT 1	T3-172 135 Turbine Bldg - U3	ON ON	30B39(N) 00B50(A)	30S709 NE-102
3 3 8000	18 S ACTIVE	30C87 30C087	EPS	HPCI INSTRUMENT RACK	-	R3-15 088 Reactor Bldg - U3	ENERGIZED ENERGIZED	N/A N/A	- M-1-EE-180, M-580
3 3 8000	18 S ACTIVE	30C95 30C095	EPS	RCIC INSTRUMENT RACK	-	R3-15 088 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- M1-EE-188
3 3 8000	18 S ACTIVE	3AC65 3AC065	EPS	RPS INSTRUMENT RACK	-	R3-40 165 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- M-1-EE-168, M-1-EE-170
3 3 8000	18 S ACTIVE	3AC91 3AC091	EPS	JET PUMP INST RACK A	-	R3-81 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
3 3 8000	18 S ACTIVE	3BC65 3BC065	EPS	RPS INSTRUMENT RACK	-	R3-29 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- M-1-EE-168, M-1-EE-170
3 3 8000	18 S ACTIVE	3BC91 3BC091	EPS	JET PUMP INST RACK B	-	R3-29 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 3	18 S ACTIVE	DPS30224-1	HPSW HVAC	HPSW PUMP ROOM / SUPPLY PLENUM DIFFERENTIAL PRESSURE SENSOR	M-396, SHT 1	P/H-9 112 Pump House	OPERABLE OPERABLE	- -	-
1 3	18 S ACTIVE	DPS30224-2	HPSW HVAC	HPSW PUMP ROOM / EXHAUST PLENUM DIFFERENTIAL PRESSURE SENSOR	M-396, SHT 1	P/H-9 112 Pump House	OPERABLE OPERABLE	- -	-
1 3	18 S ACTIVE	DPS30224-3	HPSW HVAC	HPSW PUMP ROOM / SUPPLY PLENUM DIFFERENTIAL PRESSURE SENSOR	M-396, SHT 1	P/H-9 112 Pump House	OPERABLE OPERABLE	- -	-
1 3	18 S ACTIVE	DPS30224-4	HPSW HVAC	HPSW PUMP ROOM / EXHAUST PLENUM DIFFERENTIAL PRESSURE SENSOR	M-396, SHT 1	P/H-9 112 Pump House	OPERABLE OPERABLE	- -	-
1 3	18 BR ACTIVE	LS3	PROC MON INSTM	SUPPRESSION POOL LIMIT SWITCH AY VALVE MO3-13-041 MO3-13-041	M-365, SHT 2	- - -	OPERABLE OPERABLE	- -	-
1 3	18 BR ACTIVE	LS3	PROC MON INSTM	SUPPRESSION POOL LIMIT SWITCH AY VALVE MO3-13-039 MO3-13-039	M-365, SHT 2	- - -	OPERABLE OPERABLE	- -	-
1 3	18 BR ACTIVE	LS3-23-57	PROC MON INSTM	SUPPRESSION POOL LIMIT SWITCH ON VALVE MO3-23-57 MO3-23-57	M-359, SHT 2	- - -	OPERABLE OPERABLE	- -	-
1 3	18 BR ACTIVE	LS3-23-58	PROC MON INSTM	SUPPRESSION POOL LIMIT SWITCH ON VALVE MO3-23-58 MO3-23-58	M-359, SHT 2	- - -	OPERABLE OPERABLE	- -	-
1 3	18 SR ACTIVE	LS3-23-74	PROC MON INSTM	CONDENSATE STORAGE TANK LEVEL SWITCH	M-309, SHT 2	T3-55 135 Turbine Bldg - U3	OPERABLE OPERABLE	- -	-
1 3	18 SR ACTIVE	LS3-23-75	PROC MON INSTM	CONDENSATE STORAGE TANK LEVEL SWITCH	M-309, SHT 2	T3-55 135 Turbine Bldg - U3	OPERABLE OPERABLE	- -	-
1 3	18 SR ACTIVE	LS3-23-91A	PROC MON INSTM	SUPPRESSION POOL LEVEL SWITCH	M-359, SHT 2	R3-11 91-6 Reactor Bldg - U3	OPERABLE OPERABLE	- -	-
1 3	18 SR ACTIVE	LS3-23-91B	PROC MON INSTM	SUPPRESSION POOL LEVEL SWITCH	M-359, SHT 2	R3-11 91-6 Reactor Bldg - U3	OPERABLE OPERABLE	- -	-
3 3 7129	18 S ACTIVE	LT-9027A LT-9027A	PROC MON INSTM	TORUS WATER LEVEL TRANSMITTER FOR LR-9027	M-365, SHT 2	C-Core Spray 091 Reactor Bldg - U3	OPERABLE OPERABLE	30Y33 -	-

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 7127	18 S ACTIVE	LT-9027B LT-9027B	PROC MON INSTM	TORUS WATER LEVEL TRANSMITTER FOR LI-9027	M-365, SHT 2	C-Core Spray 091 Reactor Bldg - U3	OPERABLE OPERABLE	30Y50 -	-
3 3 7128	18 S ACTIVE	LT-9123A LT-9123A	PROC MON INSTM	TORUS WATER LEVEL TRANSMITTER FOR LI-9123A	M-365, SHT 2	R3-11 091 Reactor Bldg - U3	OPERABLE OPERABLE	30Y35 -	-
3 3 7130	18 S ACTIVE	LT-9123B LT-9123B	PROC MON INSTM	TORUS WATER LEVEL TRANSMITTER FOR LR-9123B	M-365, SHT 2	R2-6 091 Reactor Bldg - U3	OPERABLE OPERABLE	30Y50 -	-
3 3 7132	18 N/A ACTIVE	LT-9453 LT-9453	PROC MON INSTM Level NR. Transfer function will be picked up	CONDENSATE STORAGE TANK LEVEL TRANSMITTER FOR LI-9453	M-309, SHT 2	R3-20 116 Reactor Bldg - U3	OPERABLE OPERABLE	30Y50 -	- Ck loc??
1 3	18 SR ACTIVE	LT3-13-170	PROC MON INSTM	SUPPRESSION POOL LEVEL SWITCH FOR RCIC INITIATION	M-365, SHT 2	T3-17 116 Turbine Bldg - U3	OPERABLE OPERABLE	- -	-
1 3	18 SR ACTIVE	LT3-13-171	PROC MON INSTM	SUPPRESSION POOL LEVEL SWITCH FOR RCIC INITIATION	M-365, SHT 2	T3-17 116 Turbine Bldg - U3	OPERABLE OPERABLE	- -	-
3 3 7131	18 B ACTIVE	LT3-2-3-61 LT-3-02-3-061	PROC MON INSTM	REACT VESSEL WATER LEVEL TRANSMITTER FOR LI3-2-86 3AC065	M-352, SHT 3	R3-40 165 Reactor Bldg - U3	OPERABLE OPERABLE	30Y33 -	-
1 3	18 S ACTIVE	PS30224-1	HPSW HVAC	HPSW PUMP ROOM "A" LOOP PRESSURE SWITCH	M-396, SHT 1	P/H-9 112 Pump House	OPERABLE OPERABLE	- -	-
1 3	18 S ACTIVE	PS30224-2	HPSW HVAC	HPSW PUMP ROOM "B" LOOP PRESSURE SWITCH	M-396, SHT 1	P/H-9 112 Pump House	OPERABLE OPERABLE	- -	-
3 3 7139	18 S ACTIVE	PT-3508B PT-3508B	PROC MON INSTM	CONTAINMENT ATMOS DRYWELL PRESS TRANSMITTER FOR PR-3508	M-367, SHT 2	R3-53 195 Reactor Bldg - U3	OPERABLE OPERABLE	30Y35 30D23 -	- M-367, E-17-55,56
3 3 7140	18 S ACTIVE	PT-5805 PT-5805	PROC MON INSTM	DRYWELL PRESSURE TRANSMITTER FOR PR-5805	M-367, SHT 2	R3-21 116 Reactor Bldg - U3	OPERABLE OPERABLE	30Y50 -	-
3 3 7136	18 B ACTIVE	PT-9102A PT-9102A	PROC MON INSTM	DRYWELL PRESSURE TRANSMITTER FOR PR-9102A 3AC065	M-361, SHT 3	R3-40 165 Reactor Bldg - U3	OPERABLE OPERABLE	30Y35 -	-
3 3 7135	18 B ACTIVE	PT-9102C PT-9102C	PROC MON INSTM	DRYWELL PRESSURE TRANSMITTER FOR PR-9102A 3AC065	M-361, SHT 3	R3-40 165 Reactor Bldg - U3	OPERABLE OPERABLE	30Y35 -	-

TRAIN / Unit / Line No	SQUG CI / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
3	18	PT3-2-3-404A	PROC MON INSTM	REACTOR PRESSURE TRANSMITTER FOR PR3-2-3-404A	M-352, SHT 3	R3-40	OPERABLE	30Y35	-
3	B					165			
7137	ACTIVE	PT-3-02-3-404A		3AC065		Reactor Bldg - U3	OPERABLE	-	-
3	18	PT3-2-3-404B	PROC MON INSTM	REACTOR PRESSURE TRANSMITTER FOR PR3-2-3-404B	M-352, SHT 4	R3-29	OPERABLE	00Y03	-
3	B					135			
7138	ACTIVE	PT-3-02-3-404B		3BC065		Reactor Bldg - U3	OPERABLE	-	-
3	18	PT3-6-53A	PROC MON INSTM	REACTOR WIDE RANGE PRESSURE TRANSMITTER FOR PI3-6-90A	M-352, SHT 3	R3-40	OPERABLE	30Y50	-
3	B					165			
7133	ACTIVE	PT-3-06-053A		3AC65		Reactor Bldg - U3	OPERABLE	-	-
3	18	PT3-6-53B	PROC MON INSTM	REACTOR WIDE RANGE PRESSURE TRANSMITTER FOR PI3-6-90B	M-352, SHT 4	R3-29	OPERABLE	30Y50	-
3	B					135			
7134	ACTIVE	PT-3-06-053B		3BC65		Reactor Bldg - U3	OPERABLE	-	-
1	18	TIC30223	HPSW HVAC	HPSW PUMP ROOM EXHAUST TEMP INDICATING CONTROLLER	M-396, SHT 1	P/H-9	OPERABLE	-	-
3	S					112			
	ACTIVE					Pump House	OPERABLE	-	-
1	18	TIC30224-1	HPSW HVAC	HPSW PUMP ROOM "A" LOOP TEMP INDICATING CONTROLLER	M-396, SHT 1	P/H-9	OPERABLE	-	-
3	S					112			
	ACTIVE					Pump House	OPERABLE	-	-
1	18	TIC30224-2	HPSW HVAC	HPSW PUMP ROOM "B" LOOP TEMP INDICATING CONTROLLER	M-396, SHT 1	P/H-9	OPERABLE	-	-
3	S					112			
	ACTIVE					Pump House	OPERABLE	-	-
1	18	TT30223	HPSW HVAC	HPSW PUMP ROOM EXHAUST TEMPERATURE TRANSMITTER	M-396, SHT 1	P/H-9	OPERABLE	-	-
3	S					112			
	ACTIVE					Pump House	OPERABLE	-	-
3	20	30B324	EPS	MO3-23-015 MOTOR CONTROL POWER TRANSFER SWITCH	-	T3-67	OPERABLE	N/A	-
3	S					135			
8000	ACTIVE	30B324				Turbine Bldg - U3	OPERABLE	N/A	U3 ONLY??
3	20	30C003	EPS	REACTOR AND CONTAINMENT COOLING AND ISOLATION	-	T3-100	OPERABLE	N/A	-
3	S					165			
8000	ACTIVE	30C003				Turbine Bldg - U3	OPERABLE	N/A	-
3	20	30C004C	EPS	RCIC VERTICAL BOARD	-	T3-100	OPERABLE	N/A	-
3	S					165			
8000	ACTIVE	30C004C				Turbine Bldg - U3	OPERABLE	N/A	-
3	20	30C005A	EPS	REACTOR MANUAL CONTROL PANEL	-	T3-100	OPERABLE	N/A	-
3	S					165			
8000	ACTIVE	30C005A				Turbine Bldg - U3	OPERABLE	N/A	-
3	20	30C006C	EPS	MAIN CONTROL ROOM CONSOLE	-	T3-100	OPERABLE	N/A	-
3	B					165			
8000	ACTIVE	30C006C		30C005A		Turbine Bldg - U3	OPERABLE	N/A	-

TRAIN / Unit / Line No	SQUG CI / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
3	20	30C012	EPS	PLANT SERVICES CONSOLE	-	T3-100	OPERABLE	N/A	-
3	S					165			
8000	ACTIVE	30C012				Turbine Bldg - U3	OPERABLE	N/A	E-17-42/2
3	20	30C124	EPS	CRT AND RFPT TEST PANEL	-	T3-100	OPERABLE	N/A	-
3	S					165			
8000	ACTIVE	30C124				Turbine Bldg - U3	OPERABLE	N/A	-
1	20	30C139	HPSW HVAC	HPSW PUMP ROOM LOCAL CONTROL PANEL	E202	P/H-9	ENERGIZED	B61	-
3	S					112			
	ACTIVE					Pump House	ENERGIZED	-	-
3	20	30C32	EPS	ENGINEERING SUB SYSTEM I RELAY CABINET	-	T3-81	OPERABLE	N/A	-
3	S					150			
8000	ACTIVE	30C032				Turbine Bldg - U3	OPERABLE	N/A	S-1198/1-3, M-1-EE-241
3	20	30C33	EPS	ENGINEERING SUB SYSTEM II RELAY CABINET	-	T3-81	OPERABLE	N/A	-
3	S					150			
8000	ACTIVE	30C033				Turbine Bldg - U3	OPERABLE	N/A	S-1198/1-3, M-1-EE-241
3	20	30C34	EPS	RCIC RELAY PANEL	-	T3-81	OPERABLE	N/A	-
3	S					150			
8000	ACTIVE	30C034				Turbine Bldg - U3	OPERABLE	N/A	S-1198/1-3, M-1-EE-84-24
3	20	30C39	EPS	HPCI RELAY CABINET	-	T3-81	OPERABLE	N/A	-
3	S					150			
8000	ACTIVE	30C039				Turbine Bldg - U3	OPERABLE	N/A	S-1198/1-3, M-1-EE-98
3	20	30C722A	EPS	ACCIDENT MONITORING INSTRUMENTATION PANEL	-	T3-81	OPERABLE	N/A	-
3	S					150			
8000	ACTIVE	30C722A				Turbine Bldg - U3	OPERABLE	N/A	S-1198/1-3, M-1-EE-405
3	20	30C722B	EPS	ACCIDENT MONITORING INSTRUMENTATION PANEL	-	T3-81	OPERABLE	N/A	-
3	S					150			
8000	ACTIVE	30C722B				Turbine Bldg - U3	OPERABLE	N/A	S-1198/1-3, M-1-EE-405
3	20	30D41	EPS	HPCI GLAND SEAL CONDENSER VACUUM PUMP STARTER	-	R3-13	OPERABLE	N/A	-
3	S					088			
8000	ACTIVE	30D041				Reactor Bldg - U3	OPERABLE	N/A	-
3	20	30D42	EPS	HPCI GLAND SEAL CONDENSER VACUUM PUMP STARTER	-	R3-13	OPERABLE	N/A	-
3	B					088			
8000	ACTIVE	30D042		30D41		Reactor Bldg - U3	OPERABLE	N/A	-
3	20	30D43	EPS	HPCI AUX LUBE OIL PUMP STARTER	-	R3-13	OPERABLE	N/A	-
3	B					088			
8000	ACTIVE	20D043		30D41		Reactor Bldg - U3	OPERABLE	N/A	U2 ONLY??
1	20	30S37-PANEL	HPCI	"U3" HPCI TURBINE	-	R3-13	OPERABLE	N/A	-
3	S					088			
	ACTIVE	30S037 - PANEL				Reactor Bldg - U3	OPERABLE	N/A	M-366

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3	20	3AC265	EPS	RESERVOIR FLOW PUMP BAY MO-3804A	-	ECT-1	OPERABLE	N/A	-
3	S					114			
8000	ACTIVE	3AC265				Emergency Cooling Tower	OPERABLE	N/A	62A-O-117-49-3
3	20	3AC272	EPS	HPCI STEAM LEAK DETECTION CABINET	-	T3-100	OPERABLE	N/A	-
3	S					165			
8000	ACTIVE	3AC272				Turbine Bldg - U3	OPERABLE	N/A	M241-10
3	20	3BC265	EPS	RESERVOIR FLOW PUMP BAY MO-3804B	-	ECT-1	OPERABLE	N/A	-
3	S					114			
8000	ACTIVE	3BC265				Emergency Cooling Tower	OPERABLE	N/A	62A-O-117-49-3
3	20	3BC272	EPS	HPCI STEAM LEAK DETECTION CABINET	-	T3-100	OPERABLE	N/A	-
3	S					165			
8000	ACTIVE	3BC272				Turbine Bldg - U3	OPERABLE	N/A	M241-10
3	20	LI-9027	PROC MON INSTM	TORUS WATER LEVEL	M-365, SHT 2	T3-100	OPERABLE	30Y33	LT-9027B
3	BR					165			
7101	ACTIVE	LI-9027		30C003		Turbine Bldg - U3	OPERABLE	-	-
3	20	LI-9123A	PROC MON INSTM	WIDE RANGE SUPPRESSION POOL LEVEL INDICATOR	M-365, SHT 2	T3-100	OPERABLE	30Y35	LT-9123A
3	BR					165			
7100	ACTIVE	LI-9123A		30C003		Turbine Bldg - U3	OPERABLE	-	-
3	20	LI-9453	PROC MON INSTM	CST LEVEL INDICATOR	M-309, SHT 2	T3-100	OPERABLE	30Y50	LT-9453
3	BR					165			
7102	ACTIVE	LI-9453		30C004C		Turbine Bldg - U3	OPERABLE	-	-
3	20	LI3-2-3-113	PROC MON INSTM	REACTOR WATER LEVEL	M-352, SHT 6	T3-100	OPERABLE	30Y50	LT3-2-3-113
3	BR					165			
7103	ACTIVE	LI-3-02-3-113		30C003		Turbine Bldg - U3	OPERABLE	-	-
3	20	LI3-2-3-85A	PROC MON INSTM	REACTOR VESSEL HIGH WATER	M-352, SHT 6	T3-100	OPERABLE	30Y35	LT3-2-3-72A OR 73A
3	BR					165			
7104	ACTIVE	LI-3-02-3-085A		30C005A		Turbine Bldg - U3	OPERABLE	-	-
3	20	LI3-2-3-85B	PROC MON INSTM	REACTOR VESSEL HIGH WATER	M-352, SHT 6	T3-100	OPERABLE	00Y03	LT3-2-3-72B OR 73B
3	BR					165			
7105	ACTIVE	LI-3-02-3-085B		30C005A		Turbine Bldg - U3	OPERABLE	-	-
3	20	LI3-2-3-86	PROC MON INSTM	REACTOR VESSEL HIGH WATER	M-352, SHT 3	T3-100	OPERABLE	30Y33	LT3-2-3-61 (C65A)
3	BR					165			
7106	ACTIVE	LI-3-02-3-086		30C003		Turbine Bldg - U3	OPERABLE	-	-
3	20	LR-9027	PROC MON INSTM	TORUS WATER LEVEL RECORDER	M-365, SHT 2	T3-100	OPERABLE	30Y33	LT-9027A
3	BR					165			
7107	ACTIVE	LR-9027		30C003		Turbine Bldg - U3	OPERABLE	-	-
3	20	LR-9123B	PROC MON INSTM	TORUS WATER LEVEL/TEMPERATURE RECORDER	M-365, SHT 2	T3-100	OPERABLE	00Y03	LT-9123B
3	BR					165			
7108	ACTIVE	LR/TR-9123B		30C003		Turbine Bldg - U3	OPERABLE	-	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 3 7109	20 BR ACTIVE	LR3-2-3-110A LR-3-02-3-110A	PROC MON INSTM	REACTOR WATER LEVEL WIDE RANGE 30C004C	M-352, SHT 6	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	30Y35 -	LT3-2-3-72C OR 73C -
3 3 7110	20 BR ACTIVE	LR3-2-3-110B LR-3-02-3-110B	PROC MON INSTM	REACTOR WATER LEVEL WIDE RANGE 30C003	M-352, SHT 6	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	00Y03 -	LT3-2-3-72D OR 73D -
3 3 7111	20 BR ACTIVE	PI3-6-90A PI-3-06-090A	PROC MON INSTM	REACTOR WIDE RANGE PRESS IND 30C005A	M-352, SHT 3	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	30Y50 -	PT3-6-53A -
3 3 7112	20 BR ACTIVE	PI3-6-90B PI-3-06-090B	PROC MON INSTM	REACTOR WIDE RANGE PRESS IND 30C005C	M-352, SHT 4	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	30Y50 -	PT3-6-53B -
3 3 7113	20 BR ACTIVE	PR-3508 PR-3508	PROC MON INSTM	CONTAIN ATMOS DRYWELL PRESS 30C003	M-367, SHT 2	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	30D23 30Y35 -	PT-3508B -
3 3 7114	20 BR ACTIVE	PR-5805 PR-5805	PROC MON INSTM	CONTAINMENT PRESSURE 30C003	M-367, SHT 2	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	30Y50 -	PT-5805 -
3 3 7115	20 BR ACTIVE	PR-9102A PR-9102A	PROC MON INSTM	DRYWELL PRESSURE RECORDER 30C003	M-361, SHT 3	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	30Y35 -	PT-9102A PT-9102C -
3 3 7116	20 BR ACTIVE	PR3-2-3-404A PR/LR-3-02-3-404A	PROC MON INSTM	REACTOR PRESS/RPV WATER LEVEL 30C004C	M-352, SHT 3	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	30Y35 -	PT3-2-3-404A -
3 3 7117	20 BR ACTIVE	PR3-2-3-404B PR-3-02-3-404B	PROC MON INSTM	REACTOR PRESSURE 30C003	M-352, SHT 4	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	00Y03 -	PT3-2-3-404B -
3 3 7118	20 BR ACTIVE	PR3-6-96 PR/LR-3-06-096	PROC MON INSTM	REACTOR LEVEL/STM FLOW RATIO 30C005A	M-352, SHT 6	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	30Y50 -	PT3-6-105 -
3 3 7123	20 BR ACTIVE	TIS-3-2-71A TIS-3-02-071A	PROC MON INSTM	TORUS WATER TEMPERATURE INDICATING SWITCH 30C124	M-361, SHT 4	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	30Y35 -	TE3-2-71A1 THRU TE3-2-71N1 -
3 3 7124	20 BR ACTIVE	TIS-3-2-71B TIS-3-02-071B	PROC MON INSTM	TORUS WATER TEMPERATURE INDICATING SWITCH 30C124	M-361, SHT 3	T3-100 165 Turbine Bldg - U3	OPERABLE OPERABLE	00Y03 -	TE3-2-71A2 THRU TE3-2-71N2 -
1 3 3212	21 B PASSIVE	30E105 30E105	HPCI	HPCI TURB LUBE OIL COOLER (23-2) 6/16/94	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- Vendor Dwg 210M806A3

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
1 3 3210	21 S PASSIVE	30E33 30E033	HPCI	HPCI GLAND SEAL CONDENSER (23-2)	M-366, SHT 4	R3-13 088 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- -
1 3 3115, 3223	21 N/A PASSIVE	30T10 30T010	RCIC/HPCI	CONDENSATE STORAGE TANK	M-309, SHT 2	B/H8 116 A Cooling Tower	OPERABLE OPERABLE	N/A N/A	- -
3 3 5573	21 B PASSIVE	3AE124 3AE124	ESW	"3A" RHR PUMP SEAL COOLER 3AP35	M-315, SHT 4	R3-5 091 Reactor Bldg - U3	N/A N/A	N/R N/R	- -
2 3 4307, 5605	21 S PASSIVE	3AE24 3AE024	RHR-C	RHR HEAT EXCHANGER A	M-361, SHT 3	R3-16 091 Reactor Bldg - U3	N/A OPERABLE	N/A N/A	- M-1-H-4-7, M-1-H-12-5,
3 3 6102	21 S PASSIVE	3AS377 3AS377	BACKUP INST N2	BACK-UP N2 SUPPLY TO ADS RV'S	M-333, SHT 2	R3-23 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- M-1786-5
3 3 2102	21 S PASSIVE	3AT540 3AT540	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71A	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M-3237
3 3 2101	21 S PASSIVE	3AT545 3AT545	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71A	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-68-6,M-333
3 3 5574	21 B PASSIVE	3BE124 3BE124	ESW	"3B" RHR PUMP SEAL COOLER 3BP35	M-315, SHT 4	R3-6 091 Reactor Bldg - U3	N/A N/A	N/R N/R	- -
1 3 4409, 5607	21 S PASSIVE	3BE24 3BE024	RHR-D	RHR HEAT EXCHANGER B	M-361, SHT 4	R3-18 091 Reactor Bldg - U3	N/A OPERABLE	N/A N/A	- M-1-H-4-7, M-1-H-12-5,
3 3 6103	21 S PASSIVE	3BS377 3BS377	BACKUP INST N2	BACK-UP N2 SUPPLY TO ADS RV'S	M-333, SHT 2	R3-23 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- M-1786-5
3 3 2108	21 S PASSIVE	3BT540 3BT540	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71B	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M-3237
3 3 2107	21 S PASSIVE	3BT545 3BT545	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71B	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-333
3 3 5575	21 B PASSIVE	3CE124 3CE124	ESW	"3C" RHR PUMP SEAL COOLER 3CP35	M-315, SHT 4	R3-7 091 Reactor Bldg - U3	N/A N/A	N/R N/R	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
2 3 4306, 5606	21 S PASSIVE	3CE24 3CE024	RHR-C	RHR HEAT EXCHANGER C	M-361, SHT 3	R3-17 091 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- M-1-H-4-7, M-1-H-12-5,
3 3 6104	21 S PASSIVE	3CS377 3CS377	BACKUP INST N2	BACK-UP N2 SUPPLY TO ADS RV'S	M-333, SHT 2	R3-23 135 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- M-1786-5
3 3 2114	21 S PASSIVE	3CT540 3CT540	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71C	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M-3237
3 3 2113	21 S PASSIVE	3CT545 3CT545	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71C	M-351, SHT 3	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-333
3 3 5576	21 B PASSIVE	3DE124 3DE124	ESW	"3D" RHR PUMP SEAL COOLER 3DP35	M-315, SHT 4	R3-8 091 Reactor Bldg - U3	N/A N/A	N/R N/R	- -
1 3 4407, 5608	21 S PASSIVE	3DE24 3DE024	RHR-D	RHR HEAT EXCHANGER D	M-361, SHT 4	R3-19 091 Reactor Bldg - U3	OPERABLE OPERABLE	N/A N/A	- M-1-H-4-7, M-1-H-12-5,
3 3 2126	21 S PASSIVE	3GT540 3GT540	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71G	M-351, SHT 4	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M-3237
3 3 2125	21 S PASSIVE	3GT545 3GT545	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71G	M-351, SHT 4	D/W3-35 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-333
3 3 2136	21 S PASSIVE	3KT540 3KT540	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71K	M-351, SHT 4	D/W3-27 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	- M-3237
3 3 2135	21 S PASSIVE	3KT545 3KT545	SRV	INSTRUMENT N2 ACCUMULATOR FOR RV-71K	M-351, SHT 4	D/W3-34 154 Drywell - U3	OPERABLE OPERABLE	N/A N/A	INSTR. N2 M-333
3 COMMON 5626	0 N/A PASSIVE	0-48-506 CHK-0-48-506	ESW & HPSW	EMERGENCY COOLING WATER PUMP 0OP188 DISCH CHECK VV	M-330	ECT-2 153 Emergency Cooling Towers	CLOSED CLOSED	N/A N/A	- -
3 COMMON 5148	0 B PASSIVE	0AF349 0AF349	SDG-A - FUEL OIL	E1 D/G FUEL OIL INLET FILTER 0AG12	M-377, SHT 4	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5248	0 B PASSIVE	0BF349 0BF349	SDG-B - FUEL OIL	E2 D/G FUEL OIL INLET FILTER 0BG12	M-377, SHT 4	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 5348	0 B PASSIVE	0CF349 0CF349	SDG-C - FUEL OIL	E3 D/G FUEL OIL INLET FILTER 0CG12	M-377, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5448	0 B PASSIVE	0DF349 0DF349	SDG-D - FUEL OIL	E4 D/G FUEL OIL INLET FILTER 0DG12	M-377, SHT 4	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5101	0 N/A PASSIVE	52C-10075A CHK-0-52C-10075A	SDG-A - STARTING AIR	E1 D/G STARTING AIR RSVR (AUTO) 0BT095 INLET CHECK	M-377, SHT 1	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5201	0 N/A PASSIVE	52C-10075B CHK-0-52C-10075B	SDG-B - STARTING AIR	E2 D/G STARTING AIR RSVR (AUTO) 0DT095 INLET CHECK	M-377, SHT 1	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5301	0 N/A PASSIVE	52C-10075C CHK-0-52C-10075C	SDG-C - STARTING AIR	E3 D/G STARTING AIR RSVR (AUTO) 0FT095 INLET CHECK	M-377, SHT 1	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5401	0 N/A PASSIVE	52C-10075D CHK-0-52C-10075D	SDG-D - STARTING AIR	E4 D/G STARTING AIR RSVR (AUTO) 0HT095 INLET CHECK	M-377, SHT 1	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5145	0 B PASSIVE	BS-52D-0570A BS-0570A	SDG-A - FUEL OIL	E1 D/G FUEL OIL PUMPS SUCTION STRNR 0AG12	M-377, SHT 4	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5245	0 B PASSIVE	BS-52D-0570B BS-0570B	SDG-B - FUEL OIL	E2 D/G FUEL OIL PUMPS SUCTION STRNR 0BG12	M-377, SHT 4	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5345	0 B PASSIVE	BS-52D-0570C BS-0570C	SDG-C - FUEL OIL	E3 D/G FUEL OIL PUMPS SUCTION STRNR 0CG12	M-377, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5445	0 B PASSIVE	BS-52D-0570D BS-0570D	SDG-D - FUEL OIL	E4 D/G FUEL OIL PUMPS SUCTION STRNR 0DG12	M-377, SHT 4	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5911	0 N/A ACTIVE	CHK0-36B-17977 CHK-0-36B-17977	HVAC	SECDRY I/A INNER CHK 0BV035 0AV034 + 0BV034 FANS PO VVS	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPEN CLOSED	N/A N/A	-
3 COMMON 5904	0 N/A ACTIVE	CHK0-36B-17991 CHK-0-36B-17991	HVAC	PRI I/A INNER CHK TO 0BV035 0AV034 + 0BV034 FANS PO VVS	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OPEN CLOSED	N/A N/A	-
3 COMMON 5909	0 N/A ACTIVE	CHK0-36B-18056 CHK-0-36B-18056	HVAC	B/U I/A INNER CHK VV FOR 0(A,B)V034 INLET+OUT DMPRS	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OPEN CLOSED	N/A N/A	-

TRAIN / Unit / Line No	SQUG Cl / Eval req'd? / Function	Equip ID / PIMS ID	System / Notes	Equip Description / ROB Mother Comp	Drawing No.	Loc Code / Room Elev / Building	Norm state / Desired State	Motive power / Contr power	Support System / Supp Sys dwg
3	0	N/A	SDG-A	DIESEL "A" EXHAUST SILENCER	M-377, SHT 5	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
5149	PASSIVE					Diesel Generator	OPERABLE	N/A	Vendor 11914759
3	0	N/A	SDG-B	DIESEL "B" EXHAUST SILENCER	M-377, SHT 5	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
5249	PASSIVE					Diesel Generator	OPERABLE	N/A	Vendor 11914759
3	0	N/A	SDG-C	DIESEL "C" EXHAUST SILENCER	M-377, SHT 5	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
5349	PASSIVE					Diesel Generator	OPERABLE	N/A	Vendor 11914759
3	0	N/A	SDG-D	DIESEL "D" EXHAUST SILENCER	M-377, SHT 5	D/G-9	OPERABLE	N/A	-
COMMON	S					127			
5449	PASSIVE					Diesel Generator	OPERABLE	N/A	Vendor 11914759
3	0	RV0-36B-00779	HVAC	INSTR AIR RELIEF VALVE FOR PO-0-40W-00031-01+00031-02	M-399, SHT 4	R/W-32	CLOSED	N/A	-
COMMON	B					165			
5923	PASSIVE	RV-0-36B-00779		PO-0-40W-00031-01 / 00031-02		Radwaste Bldg	CLOSED	N/A	-
3	0	RV0-36B-00780	HVAC	INSTR AIR RELIEF VALVE FOR PO-0-4-W-00032-01+00032-02	M-399, SHT 4	R/W-32	CLOSED	N/A	-
COMMON	B					165			
5925	PASSIVE	RV-0-36B-00780		PO-0-4-W-00032-01 / 00032-02		Radwaste Bldg	CLOSED	N/A	-
3	0	RV0-36B-00784	HVAC	INSTR AIR RELIEF VALVE FOR PO-0-40W-00025-01+00025-02	M-399, SHT 4	R/W-32	CLOSED	N/A	-
COMMON	B					165			
5922	PASSIVE	RV-0-36B-00784		PO-0-40W-00025-01 / 00025-02		Radwaste Bldg	CLOSED	N/A	-
3	0	RV0-36B-00812	HVAC	INSTR AIR RELIEF VALVE FOR PO-0-40W-00019-01+00019-02	M-399, SHT 1	R/W-32	CLOSED	N/A	-
COMMON	B					165			
5919	PASSIVE	RV-0-36B-00812		PO-0-40W-00019-01 / 00019-02		Radwaste Bldg	CLOSED	N/A	-
3	0	RV0-36B-00813	HVAC	INSTR AIR RELIEF VALVE FOR PO-0-40W-00020-01+00020-02	M-399, SHT 1	R/W-32	CLOSED	N/A	-
COMMON	B					165			
5920	PASSIVE	RV-0-36B-00813		PO-0-40W-00020-01 / 00020-02		Radwaste Bldg	CLOSED	N/A	-
3	0	RV0-36B-00814	HVAC	INSTR AIR RELIEF VALVE FOR PO-0-40W-00026-01+00026-02	M-399, SHT 4	R/W-32	CLOSED	N/A	-
COMMON	B					165			
5921	PASSIVE	RV-0-36B-00814		PO-0-40W-00026-01 / 00026-02		Radwaste Bldg	CLOSED	N/A	-
3	1	00B49	EPS	480 V TURBINE AREA MCC 00B49 (E324-T-B)	E-1621	T2-172	ENERGIZED	20B1222	-
COMMON	S					135			
8000	ACTIVE	00B49				Turbine Bldg - U2	ENERGIZED	-	E-11-50
3	1	00B50	EPS	480 V TURBINE AREA MCC 00B50 (E424-T-B)	E-1621	T3-172	ENERGIZED	20B1322	-
COMMON	S					135			
8000	ACTIVE	00B50				Turbine Bldg - U2	ENERGIZED	-	E-11-51,E-11-197
3	1	00B53	EPS	480 V E1 D/G MCC 00B53 (E124-D-A)	E-1619	D/G-4	ENERGIZED	20B1021	-
COMMON	S					127			
8000	ACTIVE	00B53				Diesel Generator	ENERGIZED	-	E-11-108

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 8000	1 S ACTIVE	00B54 E234	EPS	480 V E2 D/G MCC 00B54 (E234-D-A)	E-1619	D/G-6 127 Diesel Generator	ENERGIZED ENERGIZED	30B1121 -	- E-11-109
3 COMMON 8000	1 S ACTIVE	00B55 E324	EPS	480 V E3 D/G MCC 00B55 (E324-D-A)	E-1619	D/G-8 127 Diesel Generator	ENERGIZED ENERGIZED	20B1221 -	- E-11-106
3 COMMON 8000	1 S ACTIVE	00B56 E434	EPS	480 V E4 D/G MCC 00B56 (E434-D-A)	E-1619	D/G-10 127 Diesel Generator	ENERGIZED ENERGIZED	30B1321 -	- E-11-107
3 COMMON 8000	1 S ACTIVE	00B61 00B61	EPS	480 V PUMP STRUCTURE MCC 00B61 (E224-P-A)	E-1621	U-2 111 Pump House	ENERGIZED ENERGIZED	20B1122 -	- E-11-110, E-11-278
3 COMMON 8000	1 S ACTIVE	00B62 00B62	EPS	480 V PUMP STRUCTURE MCC 00B62 (E124-P-A)	E-1621	U-3 111 Pump House	ENERGIZED ENERGIZED	20B1022 -	- E-10-31
3 COMMON 8000	1 S ACTIVE	00B97 00B97	EPS	480 V MCC 00B97 (E13A4-EC-A)	E-1627	ECT-3 153 Emergency Cooling Towers	ENERGIZED ENERGIZED	00B9414 -	- E-11-161, E-11-278
3 COMMON 8000	1 S ACTIVE	00B98 00B98	EPS	480 V MCC 00B98 (E23A4-EC-A)	E-1627	ECT-4 153 Emergency Cooling Towers	ENERGIZED ENERGIZED	00B9514 -	- E-11-162
3 COMMON 8000	1 S ACTIVE	00B99 00B99	EPS	480 V MCC 00B99 (E43A4-EC-A)	E-1627	ECT-5 153 Emergency Cooling Towers	ENERGIZED ENERGIZED	00B9614 -	- E-11-163
3 COMMON 8000	2 S ACTIVE	00B94 00B94	EPS	480 V BUS E13A4	E-1627	ECT-3 153 Emergency Cooling Towers	ENERGIZED ENERGIZED	0AX26 -	00B9412 -
3 COMMON 8000	2 BR PASSIVE	00B9412 E-73 (9412)	EPS	BREAKER TO E13A4 480 V BUS (LC00B94 00B94	E-1627	ECT-3 153 Emergency Cooling Towers	CLOSED CLOSED	00B94 -	- -
3 COMMON 8000	2 BR ACTIVE	00B9413 E-321(9413)	EPS	BREAKER TO EMERG. CLG. TOWER FAN 0BK32 00B94	E-1627	ECT-3 153 Emergency Cooling Towers	OPEN OPEN/CLOSED	00B94 -	- -
3 COMMON 8000	2 BR PASSIVE	00B9414 E-67(9414)	EPS	BREAKER TO 480 V MCC 00B97 (13A4-EC-A) 00B94	E-1627	ECT-3 153 Emergency Cooling Towers	CLOSED CLOSED	00B94 -	- -
3 COMMON 8000	2 S ACTIVE	00B95 00B95	EPS	480 V BUS E23A4	E-1627	ECT-4 153 Emergency Cooling Towers	ENERGIZED ENERGIZED	00BX26 -	00B9512 -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 8000	2 BR PASSIVE	00B9512 E-73 (9512)	EPS	BREAKER TO E23A4 480 V BUS (LC00B95 00B95	E-1627	ECT-4 153 Emergency Cooling Towers	CLOSED CLOSED	00B95 -	- -
3 COMMON 8000	2 BR ACTIVE	00B9513 E-321(9513)	EPS	BREAKER TO EMERG. CLG. TOWER FAN 0AK32 00B95	E-1627	ECT-4 153 Emergency Cooling Towers	OPEN OPEN/CLOSED	00B95 -	- -
3 COMMON 8000	2 BR PASSIVE	00B9514 E-67(9514)	EPS	BREAKER TO 480 V MCC 00B98 (23A4-EC-A) 00B95	E-1627	ECT-4 153 Emergency Cooling Towers	CLOSED CLOSED	00B95 -	- -
3 COMMON 8000	2 S ACTIVE	00B96 00B96	EPS	480 V BUS E43A4	E-1627	ECT-5 153 Emergency Cooling Towers	ENERGIZED ENERGIZED	0CX26 -	00B9612 -
3 COMMON 8000	2 BR PASSIVE	00B9612 E-73 (9612)	EPS	BREAKER TO E43A4 480 V BUS (LC00B96 00B96	E-1627	ECT-5 153 Emergency Cooling Towers	CLOSED CLOSED	00B96 -	- -
3 COMMON 8000	2 BR ACTIVE	00B9613 E-321(9613)	EPS	BREAKER TO EMERG. CLG. TOWER FAN 0CK32 00B96	E-1627	ECT-5 153 Emergency Cooling Towers	OPEN OPEN/CLOSED	00B96 -	- -
3 COMMON 8000	2 BR PASSIVE	00B9614 E-67(9614)	EPS	BREAKER TO 480 V MCC 00B99 (43A4-EC-A) 00B96	E-1627	ECT-5 153 Emergency Cooling Towers	CLOSED CLOSED	00B96 -	- -
3 COMMON 8203	3 BR ACTIVE	20A1603 E22 (1603)	EPS-2B	BREAKER TO A EMER SERV WTR PP 0AP57 20A16	E-8	T2-71 135 Turbine Bldg - U2	OPEN CLOSED	20A16 20D22 2BD306	- -
3 COMMON 8207A	3 BR ACTIVE	20A1609 E22 (1609)	EPS-2B	BKR TO EMERG. SERV. WATER BOOSTER PUMP (0AP163) 20A16	E-8	T2-71 135 Turbine Bldg - U2	OPEN OPEN/CLOSED	20A16 20D22 2BD306	- -
3 COMMON 8305	3 BR ACTIVE	20A1706 E32 (1706)	EPS-2C	BREAKER TO B EMERG SERV WATER PUMP 0BP57 20A17	E-8	T2-170 135 Turbine Bldg - U2	OPEN CLOSED	20A17 30D23	- -
3 COMMON 8307A	3 BR ACTIVE	20A1709 E32 (1709)	EPS-2C	E232 BKR TO EMERG. SERV. WATER BOOSTER PUMP (0BP163) 20A17	E-8	T2-170 135 Turbine Bldg - U2	OPEN OPEN/CLOSED	20A17 30D23	- -
3 COMMON 8001	4 S ACTIVE	00X103 00X103	EPS	PANEL 00Y03 TRANSFORMER	E-28, SHT 1	R/W-21 135 Radwaste Bldg	ENERGIZED ENERGIZED	00B50 -	- -
3 COMMON 8000	4 S ACTIVE	0AX26 E-13A4(0AX26)	EPS	LOAD CENTER XFMR (0AX26)	E-1627	ECT-3 153 Emergency Cooling Towers	ENERGIZED ENERGIZED	30A1502 -	- -

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 8000	4 S ACTIVE	0BX26 E-23A4(0BX26)	EPS	LOAD CENTER XFMR (0BX26)	E-1627	ECT-4 153 Emergency Cooling Towers	ENERGIZED ENERGIZED	30A1609 -	- -
3 COMMON 8000	4 S ACTIVE	0CX26 E-43A4(0CX26)	EPS	LOAD CENTER XFMR (0CX26)	E-1627	ECT-5 153 Emergency Cooling Towers	ENERGIZED ENERGIZED	30A1805 -	- -
3 COMMON 5621	5 S ACTIVE	0AP163 0AP163	ESW	EMERGENCY SERVICE WATER BOOSTER PUMP A	M-330	D/G-1 121 Diesel Generator	OFF OFF/ON	20A16 -	20A1609 M-19-14-4
3 COMMON 5125	5 S PASSIVE	0AP164 0AP164	SDG-A - DIESEL COOLING	E1 D/G AIR COOLANT AUXILIARY PUMP	M-377, SHT 2	D/G-4 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5126	5 B PASSIVE	0AP165 0AP165	SDG-A - DIESEL COOLING	E1 D/G JACKET COOLANT STANDBY CIRC PUMP	M-377, SHT 2	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5124	5 S PASSIVE	0AP166 0AP166	SDG-A - DIESEL COOLING	E1 D/G JACKET COOLANT AUX PUMP	M-377, SHT 2	D/G-4 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 44D5B120
3 COMMON 5132	5 S ACTIVE	0AP167 0AP167	SDG-A - LUBE OIL	E1 D/G LUBE OIL AUXILIARY PUMP	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor NV-412
3 COMMON 5147	5 BR ACTIVE	0AP168 0AP168	SDG-A - FUEL OIL	E1 D/G FUEL OIL AUXILIARY PUMP (DC) 0AG12	M-377, SHT 4	D/G-3 127 Diesel Generator	OFF OFF/ON	0AD13 -	- -
3 COMMON 5130	5 B PASSIVE	0AP172 0AP172	SDG-A - LUBE OIL	E1 D/G LUBE OIL STANDBY CIRC PUMP	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5135	5 B PASSIVE	0AP173 0AP173	SDG-A - LUBE OIL	E1 D/G LUBE OIL PRE LUBE PUMP	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5133	5 B ACTIVE	0AP382 0AP382	SDG-A - LUBE OIL	E1 D/G LUBE OIL ENGINE DRIVEN PUMP 0AG12	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5142	5 SR ACTIVE	0AP60 0AP060	SDG-A - FUEL OIL	E1 D/G FUEL OIL TRANSFER PUMP	M-377, SHT 4	D/G-3 127 Diesel Generator	OFF OFF/ON	00B53 -	LS-0566A SPEC M-81
3 COMMON 5622	5 S ACTIVE	0BP163 0BP163	ESW	EMERGENCY SERVICE WATER BOOSTER PUMP B	M-330	D/G-1 121 Diesel Generator	OFF OFF/ON	20A17 -	20A1709 M-19-14-4

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3	5	0BP164	SDG-B - DIESEL COOLING	E2 D/G AIR COOLANT AUXILIARY PUMP	M-377, SHT 2	D/G-6	OPERABLE	N/A	-
COMMON	S					127			
5225	PASSIVE	0BP164				Diesel Generator	OPERABLE	N/A	-
3	5	0BP165	SDG-B - DIESEL COOLING	E2 D/G JACKET COOLANT STANDBY CIRC PUMP	M-377, SHT 2	D/G-5	OPERABLE	N/A	-
COMMON	B					127			
5226	PASSIVE	0BP165				Diesel Generator	OPERABLE	N/A	-
3	5	0BP166	SDG-B - DIESEL COOLING	E2 D/G JACKET COOLANT AUX PUMP	M-377, SHT 2	D/G-6	OPERABLE	N/A	-
COMMON	S					127			
5224	PASSIVE	0BP166				Diesel Generator	OPERABLE	N/A	Vendor 44D5B120
3	5	0BP167	SDG-B - LUBE OIL	E2 D/G LUBE OIL AUXILIARY PUMP	M-377, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
5232	ACTIVE	0BP167				Diesel Generator	OPERABLE	N/A	Vendor NV-412
3	5	0BP168	SDG-B - FUEL OIL	E2 D/G FUEL OIL AUXILIARY PUMP (DC)	M-377, SHT 4	D/G-5	OFF	0BD13	-
COMMON	BR					127			
5247	ACTIVE	0BP168		0BG12		Diesel Generator	OFF/ON	-	-
3	5	0BP172	SDG-B - LUBE OIL	E2 D/G LUBE OIL STANDBY CIRC PUMP	M-377, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	B					127			
5230	PASSIVE	0BP172				Diesel Generator	OPERABLE	N/A	-
3	5	0BP173	SDG-B - LUBE OIL	E2 D/G LUBE OIL PRE LUBE PUMP	M-377, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	B					127			
5235	PASSIVE	0BP173				Diesel Generator	OPERABLE	N/A	-
3	5	0BP382	SDG-B - LUBE OIL	E2 D/G LUBE OIL ENGINE DRIVEN PUMP	M-377, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	B					127			
5233	ACTIVE	0BP382		0BG12		Diesel Generator	OPERABLE	N/A	-
3	5	0BP60	SDG-B - FUEL OIL	E2 D/G FUEL OIL TRANSFER PUMP	M-377, SHT 4	D/G-5	OFF	00B54	LS-0556B
COMMON	SR					127			
5242	ACTIVE	0BP060				Diesel Generator	OFF/ON	-	SPEC M-81
3	5	0CP164	SDG-C - DIESEL COOLING	E3 D/G AIR COOLANT AUXILIARY PUMP	M-377, SHT 2	D/G-8	OPERABLE	N/A	-
COMMON	S					127			
5325	PASSIVE	0CP164				Diesel Generator	OPERABLE	N/A	-
3	5	0CP165	SDG-C - DIESEL COOLING	E3 D/G JACKET COOLANT STANDBY CIRC PUMP	M-377, SHT 2	D/G-7	OPERABLE	N/A	-
COMMON	B					127			
5326	PASSIVE	0CP165				Diesel Generator	OPERABLE	N/A	-
3	5	0CP166	SDG-C - DIESEL COOLING	E3 D/G JACKET COOLANT AUX PUMP	M-377, SHT 2	D/G-8	OPERABLE	N/A	-
COMMON	S					127			
5324	PASSIVE	0CP166				Diesel Generator	OPERABLE	N/A	Vendor 44D5B120
3	5	0CP167	SDG-C - LUBE OIL	E3 D/G LUBE OIL AUXILIARY PUMP	M-377, SHT 3	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
5332	ACTIVE	0CP167				Diesel Generator	OPERABLE	N/A	Vendor NV-412

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3 COMMON 5347	5 BR ACTIVE	0CP168 0CP168	SDG-C - FUEL OIL	E3 D/G FUEL OIL AUXILIARY PUMP (DC) 0CG12	M-377, SHT 4	D/G-7 127 Diesel Generator	OFF OFF/ON	0CD13 -	- -
3 COMMON 5330	5 B PASSIVE	0CP172 0CP172	SDG-C - LUBE OIL	E3 D/G LUBE OIL STANDBY CIRC PUMP	M-377, SHT 3	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5335	5 B PASSIVE	0CP173 0CP173	SDG-C - LUBE OIL	E3 D/G LUBE OIL PRE LUBE PUMP	M-377, SHT 3	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5333	5 B ACTIVE	0CP382 0CP382	SDG-C - LUBE OIL	E3 D/G LUBE OIL ENGINE DRIVEN PUMP 0CG12	M-377, SHT 3	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5342	5 SR ACTIVE	0CP60 0CP060	SDG-C - FUEL OIL	E3 D/G FUEL OIL TRANSFER PUMP	M-377, SHT 4	D/G-7 127 Diesel Generator	OFF OFF/ON	00B55 -	LS-0566C SPEC M-81
3 COMMON 5425	5 S PASSIVE	0DP164 0DP164	SDG-D - DIESEL COOLING	E4 D/G AIR COOLANT AUXILIARY PUMP	M-377, SHT 2	D/G-10 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5426	5 B PASSIVE	0DP165 0DP165	SDG-D - DIESEL COOLING	E4 D/G JACKET COOLANT STANDBY CIRC PUMP	M-377, SHT 2	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5424	5 S PASSIVE	0DP166 0DP166	SDG-D - DIESEL COOLING	E4 D/G JACKET COOLANT AUX PUMP	M-377, SHT 2	D/G-10 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 44D58120
3 COMMON 5432	5 S ACTIVE	0DP167 0DP167	SDG-D - LUBE OIL	E4 D/G LUBE OIL AUXILIARY PUMP	M-377, SHT 3	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor NV-412
3 COMMON 5447	5 BR ACTIVE	0DP168 0DP168	SDG-D - FUEL OIL	E4 D/G FUEL OIL AUXILIARY PUMP (DC) 0DG12	M-377, SHT 4	D/G-9 127 Diesel Generator	OFF OFF/ON	0DD13 -	- -
3 COMMON 5430	5 B PASSIVE	0DP172 0DP172	SDG-D - LUBE OIL	E4 D/G LUBE OIL STANDBY CIRC PUMP	M-377, SHT 3	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5435	5 B PASSIVE	0DP173 0DP173	SDG-D - LUBE OIL	E4 D/G LUBE OIL PRE LUBE PUMP	M-377, SHT 3	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5433	5 B ACTIVE	0DP382 0DP382	SDG-D - LUBE OIL	E4 D/G LUBE OIL ENGINE DRIVEN PUMP 0DG12	M-377, SHT 3	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -

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3 COMMON 5442	5 SR ACTIVE	0DP60 0DP060	SDG-D - FUEL OIL	E4 D/G FUEL OIL TRANSFER PUMP	M-377, SHT 4	D/G-9 127 Diesel Generator	OFF OFF/ON	00B56 -	LS-0566D SPEC M-81
3 COMMON 5118	5 B ACTIVE	N/A	SDG-A - DIESEL COOLING	AIR COOLANT PUMP, ENGINE DRIVEN 0AG12	M-377, SHT 2	D/G - 3/4 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5121	5 B ACTIVE	N/A	SDG-A - DIESEL COOLING	JACKET COOLANT PUMP, ENGINE DRIVEN 0AG12	M-377, SHT 2	D/G - 3/4 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5218	5 B ACTIVE	N/A	SDG-B - DIESEL COOLING	AIR COOLANT PUMP, ENGINE DRIVEN 0BG12	M-377, SHT 2	D/G - 5/6 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5221	5 B ACTIVE	N/A	SDG-B - DIESEL COOLING	JACKET COOLANT PUMP, ENGINE DRIVEN 0BG12	M-377, SHT 2	D/G - 5/6 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5318	5 B ACTIVE	N/A	SDG-C - DIESEL COOLING	AIR COOLANT PUMP, ENGINE DRIVEN 0CG12	M-377, SHT 2	D/G - 7/8 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5321	5 B ACTIVE	N/A	SDG-C - DIESEL COOLING	JACKET COOLANT PUMP, ENGINE DRIVEN 0CG12	M-377, SHT 2	D/G - 7/8 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5418	5 B ACTIVE	N/A	SDG-D - DIESEL COOLING	AIR COOLANT PUMP, ENGINE DRIVEN 0DG12	M-377, SHT 2	D/G - 9/10 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5421	5 B ACTIVE	N/A	SDG-D - DIESEL COOLING	JACKET COOLANT PUMP, ENGINE DRIVEN 0DG12	M-377, SHT 2	D/G - 9/10 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5146	5 B ACTIVE	N/A	SDG-A - FUEL OIL	FUEL OIL PUMP, SHAFT DRIVEN 0AG12	M-377, SHT 4	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5248	5 B ACTIVE	N/A	SDG-B - FUEL OIL	FUEL OIL PUMP, SHAFT DRIVEN 0BG12	M-377, SHT 4	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5346	5 B ACTIVE	N/A	SDG-C - FUEL OIL	FUEL OIL PUMP, SHAFT DRIVEN 0CG12	M-377, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5446	5 B ACTIVE	N/A	SDG-D - FUEL OIL	FUEL OIL PUMP, SHAFT DRIVEN 0DG12	M-377, SHT 4	DG-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 5537	6 S ACTIVE	0AP57 0AP057	ESW	EMERGENCY SERVICE WATER PUMP A	M-315, SHT 1	P/H-8 111 Pump House	OFF ON	20A16 -	20A1603 M-11-29, E-8-109-1
3 COMMON 5589	6 S ACTIVE	0BP57 0BP057	ESW	EMERGENCY SERVICE WATER PUMP B	M-315, SHT 4	P/H-8 111 Pump House	OFF ON	20A17 -	20A1706 M-11-29, E-8-109-1
3 COMMON 5530	7 S ACTIVE	AO-33-0241A AO-0-33-0241A	ESW	ESW OUTLET BLOCK VALVE FROM DIESEL GEN E1 COOLERS	M-315, SHT 1	D/G-3 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-36B-0241A vendor 6-9M207-52
3 COMMON 5532	7 S ACTIVE	AO-33-0241B AO-0-33-0241B	ESW	ESW OUTLET BLOCK VALVE FROM DIESEL GEN E2 COOLERS	M-315, SHT 1	D/G-5 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-36B-0241B vendor 6-9M207-52
3 COMMON 5534	7 S ACTIVE	AO-33-0241C AO-0-33-0241C	ESW	ESW OUTLET BLOCK VALVE FROM DIESEL GEN E3 COOLERS	M-315, SHT 1	D/G-7 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-36B-0241C vendor 6-9M207-52
3 COMMON 5536	7 S ACTIVE	AO-33-0241D AO-0-33-0241D	ESW	ESW OUTLET BLOCK VALVE FROM DIESEL GEN E4 COOLERS	M-315, SHT 1	D/G-9 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-36B-0241D vendor 6-9M207-52
3 COMMON 5104	7 S ACTIVE	AO-52C-7231A AO-0-52C-7231A	SDG-A - STARTING AIR	E1 D/G AIR START SOLENOID VALVE	M-377, SHT 1	D/G-3 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-52C-7233A -
3 COMMON 5204	7 S ACTIVE	AO-52C-7231B AO-0-52C-7231B	SDG-B - STARTING AIR	E2 D/G AIR START SOLENOID VALVE	M-377, SHT 1	D/G-5 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-52C-7233B -
3 COMMON 5304	7 S ACTIVE	AO-52C-7231C AO-0-52C-7231C	SDG-C - STARTING AIR	E3 D/G AIR START SOLENOID VALVE	M-377, SHT 1	D/G-7 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-52C-7233C -
3 COMMON 5404	7 S ACTIVE	AO-52C-7231D AO-0-52C-7231D	SDG-D - STARTING AIR	E4 D/G AIR START SOLENOID VALVE	M-377, SHT 1	D/G-9 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-52C-7233D -
3 COMMON 5105	7 S ACTIVE	AO-52C-7232A AO-0-52C-7232A	SDG-A - STARTING AIR	E1 D/G AIR START SOLENOID VALVE	M-377, SHT 1	D/G-3 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-52C-7234A -
3 COMMON 5205	7 S ACTIVE	AO-52C-7232B AO-0-52C-7232B	SDG-B - STARTING AIR	E2 D/G AIR START SOLENOID VALVE	M-377, SHT 1	D/G-5 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-52C-7234B -
3 COMMON 5305	7 S ACTIVE	AO-52C-7232C AO-0-52C-7232C	SDG-C - STARTING AIR	E3 D/G AIR START SOLENOID VALVE	M-377, SHT 1	D/G-7 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-52C-7234C

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3 COMMON 5405	7 S ACTIVE	AO-52C-7232D AO-0-52C-7232D	SDG-D - STARTING AIR	E4 D/G AIR START SOLENOID VALVE	M-377, SHT 1	D/G-9 127 Diesel Generator	CLOSED OPEN	N/A N/A	SV-52C-7234D -
3 COMMON 5907	7 B ACTIVE	AV-36B-00016 AV-00016	HVAC	EMERG SWGR & BTRY RMS SUPPLY VENT PNEUMATIC RELAY 00F043	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5901	7 S ACTIVE	PCV-40W-70088A PCV-0-40W-70088A	HVAC	I/N2 B/U SUP PRESS CRTL VLV FOR 0BV035 AND 0A(B)V034	M-399, SHT 1	R/W-29 165 Radwaste Bldg	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5903	7 S ACTIVE	PCV-40W-70088B PCV-0-40W-70088B	HVAC	I/N2 B/U SUP PRESS CRTL VLV FOR 0BV035 AND 0A(B)V034	M-399, SHT 1	R/W-29 165 Radwaste Bldg	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5914	7 S ACTIVE	PCV-40W-70089A PCV-0-40W-70089A	HVAC	I/N2 B/U SUP PRESS CRTL VLV FOR 0AV035 AND 0A(B)V036	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5916	7 S ACTIVE	PCV-40W-70089B PCV-0-40W-70089B	HVAC	I/N2 B/U SUP PRESS CRTL VLV FOR 0AV035 AND 0A(B)V036	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5809	7 B ACTIVE	PO-40W-00803-01 PO-0-40W-00803-01	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0BV034 INLET P0-0-40W-00020-01	M-399, SHT 1	R/W-32 165 Radwaste Bldg	CLOSED/OPEN OPEN	N/A N/A	HVAC N2 M-399, SHT 1
3 COMMON 5810	7 B ACTIVE	PO-40W-00803-02 PO-0-40W-00803-02	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0BV034 INLET P0-0-40W-00020-01	M-399, SHT 1	R/W-32 165 Radwaste Bldg	CLOSED/OPEN OPEN	N/A N/A	HVAC N2 M-399, SHT 1
3 COMMON 5812	7 B ACTIVE	PO-40W-00803-03 PO-0-40W-00803-03	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0BV034 INLET P0-0-40W-00020-01	M-399, SHT 1	R/W-32 165 Radwaste Bldg	CLOSED/OPEN OPEN	N/A N/A	HVAC N2 M-399, SHT 1
3 COMMON 5808	7 B PASSIVE	PO-40W-00808 PO-0-40W-00808	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0AV034 OUTLET P0-0-40W-00019-02	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OPEN OPEN	N/A N/A	HVAC N2 M-399, SHT 1
3 COMMON 5816	7 B ACTIVE	PO-40W-00809 PO-0-40W-00809	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0BV034 OUTLET P0-0-40W-00020-02	M-399, SHT 1	R/W-32 165 Radwaste Bldg	CLOSED OPEN	N/A N/A	HVAC N2 M-399, SHT 1
3 COMMON 5824	7 B PASSIVE	PO-40W-00815-01 PO-0-40W-00815-01	HVAC	EMERGENCY SWITCHGEAR VENT EXHAUST FAN 0AV035 INLET P0-0-40W-00025-01	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPEN OPEN	N/A N/A	HVAC N2 M-399, SHT 4
3 COMMON 5829	7 B ACTIVE	PO-40W-00816-01 PO-0-40W-00816-01	HVAC	EMERGENCY SWITCHGEAR VENT EXHAUST FAN 0BV035 INLET P0-0-40W-00026-01	M-399, SHT 4	R/W-32 165 Radwaste Bldg	CLOSED OPEN	N/A N/A	HVAC N2 M-399, SHT 4

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3	7	PO-40W-00816-02	HVAC	EMERGENCY SWITCHGEAR VENT EXHAUST FAN 0BV035 OUTLET	M-399, SHT 4	R/W-32 165	CLOSED	N/A	HVAC N2
COMMON	B								
5832	ACTIVE	PO-0-40W-00816-02		P0-0-40W-00026-02		Radwaste Bldg	OPEN	N/A	M-399, SHT 4
3	7	PO-40W-00822-01	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0AV034 INLET	M-399, SHT 1	R/W-32 165	OPEN	N/A	HVAC N2
COMMON	B								
5801	PASSIVE	PO-0-40W-00822-01		P0-0-40W-00019-01		Radwaste Bldg	OPEN	N/A	M-399, SHT 1
3	7	PO-40W-00822-02	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0AV034 INLET	M-399, SHT 1	R/W-32 165	OPEN	N/A	HVAC N2
COMMON	B								
5802	PASSIVE	PO-0-40W-00822-02		P0-0-40W-00019-01		Radwaste Bldg	OPEN	N/A	M-399, SHT 1
3	7	PO-40W-00822-03	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0AV034 INLET	M-399, SHT 1	R/W-32 165	OPEN	N/A	HVAC N2
COMMON	B								
5803	PASSIVE	PO-0-40W-00822-03		P0-0-40W-00019-01		Radwaste Bldg	OPEN	N/A	M-399, SHT 1
3	7	RV-40W-7149A	HVAC	B/U I/N2 RELF VLV FOR 0BV035 AND 0(A,B)V034 FANS PO VVS	M-399, SHT 1	R/W-29 165	CLOSED	N/A	-
COMMON	S								
5918	PASSIVE	RV-0-40W-7149A				Radwaste Bldg	CLOSED	N/A	-
3	7	RV-40W-7149B	HVAC	B/U I/N2 RELF VLV FOR 0AV035 AND 0(A,B)V036 FANS PO VVS	M-399, SHT 4	R/W-32 165	CLOSED	N/A	-
COMMON	S								
5924	PASSIVE	RV-0-40W-7149B				Radwaste Bldg	CLOSED	N/A	-
3	7	TCV-52E-7239A	SDG-A - DIESEL COOLING	E1 D/G JACKET COOLANT 3-WAY THERMOSTATIC CONTROL VALVE	M-377, SHT 2	D/G-3 127	OPEN/CLOSED	N/A	-
COMMON	B								
5122	ACTIVE	TCV-0-52E-7239A		0AG012		Diesel Generator	OPEN/CLOSED	N/A	-
3	7	TCV-52E-7239B	SDG-B - DIESEL COOLING	E2 D/G JACKET COOLANT 3-WAY THERMOSTATIC CONTROL VALVE	M-377, SHT 2	D/G-5 127	OPEN/CLOSED	N/A	-
COMMON	B								
5222	ACTIVE	TCV-0-52E-7239B		0BG012		Diesel Generator	OPEN/CLOSED	N/A	-
3	7	TCV-52E-7239C	SDG-C - DIESEL COOLING	E3 D/G JACKET COOLANT 3-WAY THERMOSTATIC CONTROL VALVE	M-377, SHT 2	D/G-7 127	OPEN/CLOSED	N/A	-
COMMON	B								
5322	ACTIVE	TCV-0-52E-7239C		0CG012		Diesel Generator	OPEN/CLOSED	N/A	-
3	7	TCV-52E-7239D	SDG-D - DIESEL COOLING	E4 D/G JACKET COOLANT 3-WAY THERMOSTATIC CONTROL VALVE	M-377, SHT 2	D/G-9 127	OPEN/CLOSED	N/A	-
COMMON	B								
5422	ACTIVE	TCV-0-52E-7239D		0DG012		Diesel Generator	OPEN/CLOSED	N/A	-
3	7	TCV-52F-7238A	SDG-A - DIESEL COOLING	E1 D/G AIR COOLANT 3-WAY THERMOSTATIC CONTROL VALVE	M-377, SHT 2	D/G-3 127	OPEN/CLOSED	N/A	-
COMMON	B								
5117	ACTIVE	TCV-0-52F-7238A		0AG012		Diesel Generator	OPEN/CLOSED	N/A	-
3	7	TCV-52F-7238B	SDG-B - DIESEL COOLING	E2 D/G AIR COOLANT 3-WAY THERMOSTATIC CONTROL VALVE	M-377, SHT 2	D/G-5 127	OPEN/CLOSED	N/A	-
COMMON	B								
5217	ACTIVE	TCV-0-52F-7238B		0BG012		Diesel Generator	OPEN/CLOSED	N/A	-
3	7	TCV-52F-7238C	SDG-C - DIESEL COOLING	E3 D/G AIR COOLANT 3-WAY THERMOSTATIC CONTROL VALVE	M-377, SHT 2	D/G-7 127	OPEN/CLOSED	N/A	-
COMMON	B								
5317	ACTIVE	TCV-0-52F-7238C		0CG012		Diesel Generator	OPEN/CLOSED	N/A	-

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 5417	7 B ACTIVE	TCV-52F-7238D TCV-0-52F-7238D	SDG-D - DIESEL COOLING	E4 D/G AIR COOLANT 3-WAY THERMOSTATIC CONTROL VALVE 0DG012	M-377, SHT 2	D/G-9 127 Diesel Generator	OPEN/CLOSED OPEN/CLOSED	N/A N/A	-
3 COMMON 5138	7 B ACTIVE	TCV-52G-7240A TCV-0-52G-7240A	SDG-A - LUBE OIL	E1 D/G LUBE OIL 3-WAY THERMOSTATIC CONTROL VALVE 0AG012	M-377, SHT 3	D/G-3 127 Diesel Generator	OPEN/CLOSED OPEN	N/A N/A	-
3 COMMON 5238	7 B ACTIVE	TCV-52G-7240B TCV-0-52G-7240B	SDG-B - LUBE OIL	E2 D/G LUBE OIL 3-WAY THERMOSTATIC CONTROL VALVE 0BG012	M-377, SHT 3	D/G-5 127 Diesel Generator	OPEN/CLOSED OPEN	N/A N/A	-
3 COMMON 5338	7 B ACTIVE	TCV-52G-7240C TCV-0-52G-7240C	SDG-C - LUBE OIL	E3 D/G LUBE OIL 3-WAY THERMOSTATIC CONTROL VALVE 0CG012	M-377, SHT 3	D/G-7 127 Diesel Generator	OPEN/CLOSED OPEN	N/A N/A	-
3 COMMON 5438	7 B ACTIVE	TCV-52G-7240D TCV-0-52G-7240D	SDG-D - LUBE OIL	E4 D/G LUBE OIL 3-WAY THERMOSTATIC CONTROL VALVE 0DG012	M-377, SHT 3	D/G-9 127 Diesel Generator	OPEN/CLOSED OPEN	N/A N/A	-
3 COMMON 5620	8A SR ACTIVE	MO-33-0498 MO-0-33-0498	ESW	EMERGENCY SERVICE WATER RETURN TO DISCH POND	M-330	D/G-2 121 Diesel Generator	OPEN CLOSED	00B56 -	-
3 COMMON 5623	8A SR ACTIVE	MO-48-0501A MO-0-48-0501A	ESW	ESW A INLET TO ECT RESERVOIR	M-330	ECT-1 114 Emergency Cooling Towers	OPEN OPEN/CLOSED	00B98 -	-
3 COMMON 5624	8A SR ACTIVE	MO-48-0501B MO-0-48-0501B	ESW	ESW B INLET TO ECT RESERVOIR	M-330	ECT-1 114 Emergency Cooling Towers	CLOSED OPEN/CLOSED	00B97 -	-
3 COMMON 5625	8A SR ACTIVE	MO-48-0501C MO-0-48-0501C	ESW	ESW C INLET TO ECT RESERVOIR	M-330	ECT-1 114 Emergency Cooling Towers	CLOSED OPEN/CLOSED	00B99 -	-
3 COMMON 5614	8 R PASSIVE	MO-48-0502A MO-0-48-0502A	HPSW	HPSW A INLET TO ECT RESERVOIR	M-330	ECT-1 114 Emergency Cooling Towers	OPEN OPEN	N/R N/R	-
3 COMMON 5615	8 R PASSIVE	MO-48-0502B MO-0-48-0502B	HPSW	HPSW B INLET TO ECT RESERVOIR	M-330	ECT-1 114 Emergency Cooling Towers	OPEN OPEN	N/R N/R	-
3 COMMON 5616	8A SR ACTIVE	MO-48-0502C MO-0-48-0502C	HPSW	HPSW C INLET TO ECT RESERVOIR	M-330	ECT-1 114 Emergency Cooling Towers	CLOSED OPEN	00B99 -	-
3 COMMON 5114	8 BR ACTIVE	SV-00540-1 SV-0-36B-00540-01	SDG-A - VENTILATION	INSTRUMENT AIR BLOCK VALVE FOR PO-0-40F-00540-01 0AV91	M-385	D/G-4 127 Diesel Generator	DEENERGIZED DEEN/ENER	00B53 -	-

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3 COMMON 5214	8 BR ACTIVE	SV-00540-2 SV-0-36B-00540-02	SDG-B - VENTILATION	INSTRUMENT AIR BLOCK VALVE FOR PO-0-40F-00540-02 0BV91	M-385	D/G-6 127 Diesel Generator	DEENERGIZED DEEN/ENER	00B54 -	- -
3 COMMON 5314	8 BR ACTIVE	SV-00540-3 SV-0-36B-00540-03	SDG-C - VENTILATION	INSTRUMENT AIR BLOCK VALVE FOR PO-0-40F-00540-03 0CV91	M-385	D/G-8 127 Diesel Generator	DEENERGIZED DEEN/ENER	00B55 -	- -
3 COMMON 5414	8 BR ACTIVE	SV-00540-4 SV-0-36B-00540-04	SDG-D - VENTILATION	INSTRUMENT AIR BLOCK VALVE FOR PO-0-40F-00540-04 0DV91	M-385	D/G-10 127 Diesel Generator	DEENERGIZED DEEN/ENER	00B56 -	- -
3 COMMON 5905	8B SR ACTIVE	SV-36B-00019 SV-0-36B-00019	HVAC	I/A SOLENOID VALVE FOR PO-0-40W-00019-01 + 00019-02, 808, 822-01, 02, 03	M-399, SHT 1	R/W-32 165 Radwaste Bldg	ENER/DEEN ENERGIZED	00B49 -	0AV34 M-119-48
3 COMMON 5908	8B SR ACTIVE	SV-36B-00020 SV-0-36B-00020	HVAC	I/A SOLENOID VALVE FOR PO-0-40W-00020-01 + 00020-02, 809, 803-01, -02, -03	M-399, SHT 1	R/W-32 165 Radwaste Bldg	DEEN/ENER ENERGIZED	00B50 -	0BV34 M-119-48
3 COMMON 5912	8B SR ACTIVE	SV-36B-00025 SV-0-36B-00025	HVAC	I/A SOLENOID VALVE FOR PO-0-40W-00025-01 + 00025-02	M-399, SHT 4	R/W-32 165 Radwaste Bldg	ENER/DEEN ENERGIZED	00B49 -	0AV35 M-119-48
3 COMMON 5912	8B SR ACTIVE	SV-36B-00026 SV-0-36B-00026	HVAC	I/A SOLENOID VALVE FOR PO-0-40W-00026-01 + 00026-02, 00816-01 + 00816-02	M-399, SHT 4	R/W-32 165 Radwaste Bldg	DEEN/ENER ENERGIZED	00B50 -	0BV35 M-119-48
3 COMMON 5917	8 B ACTIVE	SV-36B-00031 SV-0-36B-00031	HVAC	I/A SOLENOID VALVE FOR PO-0-40W-00031-01 + 00031-02 PO-0-40W-00031-01 / 02	M-399, SHT 4	R/W-32 165 Radwaste Bldg	ENER/DEEN ENERGIZED	00B49 -	0AV36 -
3 COMMON 5917	8B SR ACTIVE	SV-36B-00032 SV-0-36B-00032	HVAC	I/A SOLENOID VALVE FOR PO-0-40W-00032-01 + 00032-02	M-399, SHT 4	R/W-32 165 Radwaste Bldg	DEEN/ENER ENERGIZED	00B50 -	0BV36 -
3 COMMON 5529	8B BR ACTIVE	SV-36B-0241A SV-0-36B-0241A	ESW	I/A SOLENOID VV FOR AO-0241A D/G E1 ESW OUTLET AO-33-0241A	M-315, SHT 1	D/G-3 127 Diesel Generator	ENERGIZED DEENERGIZED	N/R N/R	- -
3 COMMON 5531	8B BR ACTIVE	SV-36B-0241B SV-0-36B-0241B	ESW	I/A SOLENOID VV FOR AO-0241B D/G E2 ESW OUTLET AO-33-0241B	M-315, SHT 1	D/G-5 127 Diesel Generator	ENERGIZED DEENERGIZED	N/R N/R	- -
3 COMMON 5533	8B BR ACTIVE	SV-36B-0241C SV-0-36B-0241C	ESW	I/A SOLENOID VV FOR AO-0241C D/G E3 ESW OUTLET AO-33-0241C	M-315, SHT 1	D/G-7 127 Diesel Generator	ENERGIZED DEENERGIZED	N/R N/R	- -
3 COMMON 5535	8B BR ACTIVE	SV-36B-0241D SV-0-36B-0241D	ESW	I/A SOLENOID VV FOR AO-0241D D/G E4 ESW OUTLET AO-33-0241D	M-315, SHT 1	D/G-9 127 Diesel Generator	ENERGIZED DEENERGIZED	N/R N/R	- -

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 5106	8 BR ACTIVE	SV-52C-7233A SV-0-52C-7233A	SDG-A - STARTING AIR	E1 D/G AIR START SOLENOID VALVE (CONTROLS AO-7231A) AO-52C-7231A	M-377, SHT 1	D/G-3 127 Diesel Generator	DE-ENERGIZE ENERGIZED	0AD13 -	-
3 COMMON 5206	8 BR ACTIVE	SV-52C-7233B SV-0-52C-7233B	SDG-B - STARTING AIR	E2 D/G AIR START SOLENOID VALVE (CONTROLS AO-7231B) AO-52C-7231B	M-377, SHT 1	D/G-5 127 Diesel Generator	DE-ENERGIZE ENERGIZED	0BD13 -	-
3 COMMON 5306	8 BR ACTIVE	SV-52C-7233C SV-0-52C-7233C	SDG-C - STARTING AIR	E3 D/G AIR START SOLENOID VALVE (CONTROLS AO-7231C) AO-52C-7231C	M-377, SHT 1	D/G-7 127 Diesel Generator	DE-ENERGIZE ENERGIZED	0CD13 -	-
3 COMMON 5406	8 BR ACTIVE	SV-52C-7233D SV-0-52C-7233D	SDG-D - STARTING AIR	E4 D/G AIR START SOLENOID VALVE (CONTROLS AO-7231D) AO-52C-7231D	M-377, SHT 1	D/G-9 127 Diesel Generator	DE-ENERGIZE ENERGIZED	0DD13 -	-
3 COMMON 5107	8 BR ACTIVE	SV-52C-7234A SV-0-52C-7234A	SDG-A - STARTING AIR	E1 D/G AIR START SOLENOID VALVE (CONTROLS AO-7232A) AO-52C-7232A	M-377, SHT 1	D/G-3 127 Diesel Generator	DE-ENERGIZE ENERGIZED	0AD13 -	-
3 COMMON 5207	8 BR ACTIVE	SV-52C-7234B SV-0-52C-7234B	SDG-B - STARTING AIR	E2 D/G AIR START SOLENOID VALVE (CONTROLS AO-7232B) AO-52C-7232B	M-377, SHT 1	D/G-5 127 Diesel Generator	DE-ENERGIZE ENERGIZE	0BD13 -	-
3 COMMON 5307	8 BR ACTIVE	SV-52C-7234C SV-0-52C-7234C	SDG-C - STARTING AIR	E3 D/G AIR START SOLENOID VALVE (CONTROLS AO-7232C) AO-52C-7232C	M-377, SHT 1	D/G-7 127 Diesel Generator	DE-ENERGIZE ENERGIZED	0CD13 -	-
3 COMMON 5407	8 BR ACTIVE	SV-52C-7234D SV-0-52C-7234D	SDG-D - STARTING AIR	E4 D/G AIR START SOLENOID VALVE (CONTROLS AO-7232D) AO-52C-7232D	M-377, SHT 1	D/G-9 127 Diesel Generator	DE-ENERGIZE ENERGIZE	0DD13 -	-
3 COMMON 5617	9 S ACTIVE	0AK032 0AK032	ESW & HPSW	"A" EMERGENCY COOLING TOWER FAN	M-330	ECT-6 195 Emergency Cooling Towers	OFF OFF/ON	00B95 -	00B9513 M78-3-4
3 COMMON 5825	9 SR ACTIVE	0AV035 0AV035	HVAC	EMERG SWITCHGEAR VENTILATION EXHAUST FAN A	M-399, SHT 4	R/W-32 165 Radwaste Bldg	ON/OFF ON	00B49 -	-
3 COMMON 5818	9 SR ACTIVE	0AV036 0AV036	HVAC	BATTERY ROOM EXHAUST FAN A	M-399, SHT 4	R/W-32 165 Radwaste Bldg	ON/OFF ON	00B49 -	-
3 COMMON 5109	9 SR ACTIVE	0AV064 0AV064	SDG-A - VENTILATION	E1 D/G BUILDING VENTILATION SUPPLY FAN A	M-385	D/G-13 151 Diesel Generator	OFF ON	00B53 -	- S-979, M-51-57, 69, 77
3 COMMON 5113	9 SR ACTIVE	0AV091 0AV091	SDG-A - VENTILATION	E1 D/G BUILDING VENT SUPPLEMENT SUPPLY FAN	M-385	D/G-14 151 Diesel Generator	OFF OFF/ON	00B53 -	- VMAN M-70-35

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 5618	9 S ACTIVE	0BK032 0BK032	ESW & HPSW	"B" EMERGENCY COOLING TOWER FAN	M-330	ECT-6 195 Emergency Cooling Towers	OFF OFF/ON	00B94 -	0089413 M78-3-4
3 COMMON 5821	9 SR ACTIVE	0BV035 0BV035	HVAC	EMERG SWITCHGEAR VENTILATION EXHAUST FAN B	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OFF/ON ON	00B50 -	- -
3 COMMON 5830	9 SR ACTIVE	0BV036 0BV036	HVAC	BATTERY ROOM EXHAUST FAN B	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OFF/ON ON	00B50 -	- -
3 COMMON 5209	9 SR ACTIVE	0BV064 0BV064	SDG-B - VENTILATION	E2 D/G BUILDING VENTILATION SUPPLY FAN B	M-385	D/G-15 151 Diesel Generator	OFF ON	00B54 -	- S-979, M-51-57, 69, 77
3 COMMON 5213	9 SR ACTIVE	0BV091 0BV091	SDG-B - VENTILATION	E2 D/G BUILDING VENT SUPPLEMENT SUPPLY FAN	M-385	D/G-16 151 Diesel Generator	OFF OFF/ON	00B54 -	- VMAN M-70-35
3 COMMON 5619	9 S ACTIVE	0CK032 0CK032	ESW & HPSW	"C" EMERGENCY COOLING TOWER FAN	M-330	ECT-6 195 Emergency Cooling Towers	OFF OFF/ON	00B96 -	0089613 M78-3-4
3 COMMON 5309	9 SR ACTIVE	0CV064 0CV064	SDG-C - VENTILATION	E3 D/G BUILDING VENTILATION SUPPLY FAN C	M-385	D/G-17 151 Diesel Generator	OFF ON	00B55 -	- S-979, M-51-57, 69, 77
3 COMMON 5313	9 SR ACTIVE	0CV091 0CV091	SDG-C - VENTILATION	E3 D/G BUILDING VENT SUPPLEMENT SUPPLY FAN	M-385	D/G-18 151 Diesel Generator	OFF OFF/ON	00B55 -	- VMAN M-70-35
3 COMMON 5409	9 SR ACTIVE	0DV064 0DV064	SDG-D - VENTILATION	E4 D/G BUILDING VENTILATION SUPPLY FAN D	M-385	D/G-19 151 Diesel Generator	OFF ON	00B56 -	- S-979, M-51-57, 69, 77
3 COMMON 5413	9 SR ACTIVE	0DV091 0DV091	SDG-D - VENTILATION	E4 D/G BUILDING VENT SUPPLEMENT SUPPLY FAN	M-385	D/G-20 151 Diesel Generator	OFF OFF/ON	00B56 -	- VMAN M-70-35
3 COMMON 5800	10 S PASSIVE	00F043 00F043	HVAC	EMERG SWGR VENT SUPPLY ROLL-FILTER	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OPERABLE N/A	N/A N/A	- -
3 COMMON 5806	10 SR ACTIVE	0AV034 0AV034	HVAC	EMERG SWGR AND BTRY ROOM VENTILATION SUPPLY FAN A	M-399, SHT 1	R/W-32 165 Radwaste Bldg	ON/OFF ON	00B49 -	- S-982
3 COMMON 5814	10 B ACTIVE	0BV034 0BV034	HVAC	EMERG SWGR AND BTRY ROOM VENTILATION SUPPLY FAN B 0AV034	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OFF/ON ON	00B50 -	- S-982

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3 COMMON 5110	10 S ACTIVE	PO-00272-1 PO-0-40F-00272-01	SDG A - VENTILATION	MASTER FOR E1 D/G BLDG VENT SUP FAN 0AV064 OUTSIDE AIR DAMPER	M-385	D/G-13 151 Diesel Generator	CLOSED OPEN	N/A N/A	-
3 COMMON 5111	10 S ACTIVE	PO-00272-2 PO-0-40F-00272-02	SDG A - VENTILATION	MASTER FOR E1 D/G BLDG VENT SUP FAN 0AV064 RETURN AIR DAMPER	M-385	D/G-13 151 Diesel Generator	OPEN CLOSED	N/A N/A	-
3 COMMON 5210	10 S ACTIVE	PO-00273-1 PO-0-40F-00273-01	SDG B - VENTILATION	MASTER FOR E2 D/G BLDG VENT SUP FAN 0BV064 OUTSIDE AIR DAMPER	M-385	D/G-15 151 Diesel Generator	CLOSED OPEN	N/A N/A	-
3 COMMON 5211	10 S ACTIVE	PO-00273-2 PO-0-40F-00273-02	SDG B - VENTILATION	MASTER FOR E2 D/G BLDG VENT SUP FAN 0BV064 RETURN AIR DAMPER	M-385	D/G-15 151 Diesel Generator	OPEN CLOSED	N/A N/A	-
3 COMMON 5310	10 S ACTIVE	PO-00274-1 PO-0-40F-00274-01	SDG C - VENTILATION	MASTER FOR E3 D/G BLDG VENT SUP FAN 0CV064 OUTSIDE AIR DAMPER	M-385	D/G-17 151 Diesel Generator	CLOSED OPEN	N/A N/A	-
3 COMMON 5311	10 S ACTIVE	PO-00274-2 PO-0-40F-00274-02	SDG C - VENTILATION	MASTER FOR E3 D/G BLDG VENT SUP FAN 0CV064 RETURN AIR DAMPER	M-385	D/G-17 151 Diesel Generator	OPEN CLOSED	N/A N/A	-
3 COMMON 5410	10 S ACTIVE	PO-00275-1 PO-0-40F-00275-01	SDG D - VENTILATION	MASTER FOR E4 D/G BLDG VENT SUP FAN 0DV064 OUTSIDE AIR DAMPER	M-385	D/G-19 151 Diesel Generator	CLOSED OPEN	N/A N/A	-
3 COMMON 5411	10 S ACTIVE	PO-00275-2 PO-0-40F-00275-02	SDG D - VENTILATION	MASTER FOR E4 D/G BLDG VENT SUP FAN 0DV064 RETURN AIR DAMPER	M-385	D/G-19 151 Diesel Generator	OPEN CLOSED	N/A N/A	-
3 COMMON 5115	10 S ACTIVE	PO-00540-1 PO-0-40F-00540-01	SDG A - VENTILATION	E1 D/G BLDG VENT SUPPLEMENTAL SUP FAN 0AV091 DAMPER	M-385	D/G-4 127 Diesel Generator	CLOSED OPEN	N/A N/A	-
3 COMMON 5215	10 S ACTIVE	PO-00540-2 PO-0-40F-00540-02	SDG B - VENTILATION	E2 D/G BLDG VENT SUPPLEMENTAL SUP FAN 0BV091 DAMPER	M-385	D/G-6 127 Diesel Generator	CLOSED OPEN	N/A N/A	-
3 COMMON 5315	10 S ACTIVE	PO-00540-3 PO-0-40F-00540-03	SDG C - VENTILATION	E3 D/G BLDG VENT SUPPLEMENTAL SUP FAN 0CV091 DAMPER	M-385	D/G-8 127 Diesel Generator	CLOSED OPEN	N/A N/A	-
3 COMMON 5415	10 S ACTIVE	PO-00540-4 PO-0-40F-00540-04	SDG D - VENTILATION	E4 D/G BLDG VENT SUPPLEMENTAL SUP FAN 0DV091 DAMPER	M-385	D/G-10 127 Diesel Generator	CLOSED OPEN	N/A N/A	-
3 COMMON 5833	10 S ACTIVE	PO-40W-00017-02 PO-0-40W-00017-02	HVAC	MASTER FOR EMERG SWGR/BTRY RMS VENT EXH TO CR ROOF DAMPER	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPEN CLOSED	N/A N/A	-

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3 COMMON 5804	10 S ACTIVE	PO-40W-00019-01 PO-0-40W-00019-01	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0AV034 INLET DAMPER	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OPEN/CLOSED OPEN	N/A N/A	HVAC N2 SV-0-36B-00019 M-399, SHT 1
3 COMMON 5807	10 S ACTIVE	PO-40W-00019-02 PO-0-40W-00019-02	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0AV034 OUTLET	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OPEN/CLOSED OPEN	N/A N/A	HVAC N2 SV-0-36B-00019 M-399, SHT 1
3 COMMON 5811	10 S ACTIVE	PO-40W-00020-01 PO-0-40W-00020-01	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0BV034 INLET DAMPER	M-399, SHT 1	R/W-32 165 Radwaste Bldg	CLOSED/OPEN OPEN	N/A N/A	HVAC N2 SV-0-36B-00020 M-399, SHT 1
3 COMMON 5815	10 S ACTIVE	PO-40W-00020-02 PO-0-40W-00020-02	HVAC	EMERG SWGR + BATTERY ROOMS VENT SUP FAN 0BV034 OUTLET DAMPER	M-399, SHT 1	R/W-32 165 Radwaste Bldg	CLOSED/OPEN OPEN	N/A N/A	HVAC N2 SV-0-36B-00020 M-399, SHT 1
3 COMMON 5823	10 S PASSIVE	PO-40W-00025-01 PO-0-40W-00025-01	HVAC	EMERGENCY SWITCHGEAR VENT EXHAUST FAN 0AV035 INLET DAMPER	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPEN OPEN	N/A N/A	HVAC N2 SV-0-36B-00025 M-399, SHT 4
3 COMMON 5826	10 S PASSIVE	PO-40W-00025-02 PO-0-40W-00025-02	HVAC	EMERGENCY SWITCHGEAR VENT EXHAUST FAN 0AV035 OUTLET DAMPER	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPEN OPEN	N/A N/A	HVAC N2 SV-0-36B-00025 M-399, SHT 4
3 COMMON 5828	10 S ACTIVE	PO-40W-00026-01 PO-0-40W-00026-01	HVAC	EMERGENCY SWITCHGEAR VENT EXHAUST FAN 0BV035 INLET DAMPER	M-399, SHT 4	R/W-32 165 Radwaste Bldg	CLOSED OPEN	N/A N/A	HVAC N2 SV-0-36B-00026 M-399, SHT 4
3 COMMON 5831	10 S ACTIVE	PO-40W-00026-02 PO-0-40W-00026-02	HVAC	EMERGENCY SWITCHGEAR VENT EXHAUST FAN 0BV035 OUTLET DAMPER	M-399, SHT 4	R/W-32 165 Radwaste Bldg	CLOSED OPEN	N/A N/A	HVAC N2 SV-0-36B-00026 M-399, SHT 4
3 COMMON 5817	10 S ACTIVE	PO-40W-00031-01 PO-0-40W-00031-01	HVAC	BATTERY ROOM VENT EXHAUST FAN 0AV036 INLET DAMPER	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPEN/CLOSED OPEN	N/A N/A	HVAC N2 SV-0-36B-00031 M-399, SHT 4
3 COMMON 5819	10 S ACTIVE	PO-40W-00031-02 PO-0-40W-00031-02	HVAC	BATTERY ROOM VENT EXHAUST FAN 0AV036 OUTLET DAMPER	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPEN/CLOSED OPEN	N/A N/A	HVAC N2 SV-0-36B-00031 M-399, SHT 4
3 COMMON 5820	10 S ACTIVE	PO-40W-00032-01 PO-0-40W-00032-01	HVAC	BATTERY ROOM VENT EXHAUST FAN 0BV036 INLET DAMPER	M-399, SHT 4	R/W-32 165 Radwaste Bldg	CLOSED/OPEN OPEN	N/A N/A	HVAC N2 SV-0-36B-00032 M-399, SHT 4
3 COMMON 5822	10 S ACTIVE	PO-40W-00032-02 PO-0-40W-00032-02	HVAC	BATTERY ROOM VENT EXHAUST FAN 0BV036 OUTLET DAMPER	M-399, SHT 4	R/W-32 165 Radwaste Bldg	CLOSED/OPEN OPEN	N/A N/A	HVAC N2 SV-0-36B-00032 M-399, SHT 4
3 COMMON 8001	14 S ACTIVE	00Y03 00Y003	EPS	120VAC DISTRIBUTION PANEL	E-28, SHT 1	R/W-21 135 Radwaste Bldg	ENERGIZED ENERGIZED	00X103 -	-

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3	14	0AD13	EPS	125VDC DIST. PANEL (0AD13)	E-26, SHT 2	D/G-4	ENERGIZED	20D21	-
COMMON	S					127			
8000	ACTIVE	0AD13				Diesel Generator	ENERGIZED	-	-
3	14	0BD13	EPS	125VDC DIST. PANEL (0BD13)	E-26, SHT 2	D/G-6	ENERGIZED	30D23	-
COMMON	S					127			
8000	ACTIVE	0BD13				Diesel Generator	ENERGIZED	-	-
3	14	0CD13	EPS	125VDC DIST. PANEL (0CD13)	E-26, SHT 2	D/G-8	ENERGIZED	2BD306	-
COMMON	S					127			
8000	ACTIVE	0CD13				Diesel Generator	ENERGIZED	-	-
3	14	0DD13	EPS	125VDC DIST. PANEL (0DD13)	E-26, SHT 2	D/G-10	ENERGIZED	3DD306	-
COMMON	S					127			
8000	ACTIVE	0DD13				Diesel Generator	ENERGIZED	-	-
3	17	0AG12	SDG-A	E1 STANDBY DIESEL GENERATOR	E-8	D/G-3	OFF	0AD13	-
COMMON	SR					127			
8001	ACTIVE	0AG012				Diesel Generator	ON	-	6280-E5-155-1
3	17	0BG12	SDG-B	E2 STANDBY DIESEL GENERATOR	E-8	D/G-5	OFF	0BD13	-
COMMON	SR					127			
8003	ACTIVE	0BG012				Diesel Generator	ON	-	6280-E5-155-1
3	17	0CG12	SDG-C	E3 STANDBY DIESEL GENERATOR	E-8	D/G-7	OFF	0CD13	-
COMMON	SR					127			
8006	ACTIVE	0CG012				Diesel Generator	ON	-	6280-E5-155-1
3	17	0DG12	SDG-D	E4 STANDBY DIESEL GENERATOR	E-8	D/G-9	OFF	0DD13	-
COMMON	SR					127			
8009	ACTIVE	0DG012				Diesel Generator	ON	-	6280-E5-155-1
3	18	PC-36B-00016	HVAC	EMERG SWGR AIR SUPPLY PRESS CONTROL (HIGHEST PRESSURE RELAY)	M-399, SHT 1	R/W-32	OPERABLE	N/A	-
COMMON	B					165			
5906	ACTIVE	PC-00016		00F043		Radwaste Bldg	OPERABLE	N/A	SK-M-651
3	19	HD-550A	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-550A				Diesel Generator	OPERABLE	N/A	M-713-1-1
3	19	HD-550B	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-550B				Diesel Generator	OPERABLE	N/A	M-713-1-1
3	19	HD-551A	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-551A				Diesel Generator	OPERABLE	N/A	M-713-1-1
3	19	HD-551B	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-551B				Diesel Generator	OPERABLE	N/A	M-713-1-1

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3	19	HD-552A	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-552A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-552B	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-552B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-553A	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-553A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-553B	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-553B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-554A	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-554A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-554B	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-554B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-555A	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-555A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-555B	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-555B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-556A	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-556A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-556B	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-556B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-557A	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-557A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-557B	SDG-A	E1 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 2	D/G-3	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-557B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-796A	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-796A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1

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3	19	HD-796B	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-796B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-797A	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-797A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-797B	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-797B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-798A	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-798A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-798B	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-798B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-799A	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-799A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-799B	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-799B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-800A	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-800A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-800B	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-800B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-801A	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-801A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-801B	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-801B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-802A	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-802A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-802B	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-802B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3	19	HD-803A	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-803A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-803B	SDG-B	E2 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 3	D/G-5	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-803B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-804A	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-804A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-804B	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-804B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-805A	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-805A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-805B	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-805B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-806A	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-806A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-806B	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-806B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-807A	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-807A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-807B	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-807B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-808A	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-808A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-808B	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-808B				Diesel Generator	OPERABLE	N/A	
									M-713-1-1
3	19	HD-809A	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7	OPERABLE	N/A	-
COMMON	S					127			
	ACTIVE	HD-809A				Diesel Generator	OPERABLE	N/A	
									M-713-1-1

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON	19 S ACTIVE	HD-809B HD-809B	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-810A HD-810A	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-810B HD-810B	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-811A HD-811A	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-811B HD-811B	SDG-C	E3 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-812A HD-812A	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-812B HD-812B	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-813A HD-813A	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-813B HD-813B	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-814A HD-814A	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-814B HD-814B	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-815A HD-815A	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-815B HD-815B	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON	19 S ACTIVE	HD-816A HD-816A	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-816B HD-816B	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-817A HD-817A	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-817B HD-817B	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-818A HD-818A	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-818B HD-818B	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-819A HD-819A	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON	19 S ACTIVE	HD-819B HD-819B	SDG-D	E4 D/G CARDOX HEAT DETECTOR	M-46-24, SHT 5	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713-1-1
3 COMMON 8000	20 S ACTIVE	00C29A 00C029A	EPS	EMERGENCY PROTECTION RELAY BOARD	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- E-7-30, E17-539-1
3 COMMON 8000	20 S ACTIVE	00C29B 00C029B	EPS	EMERGENCY PROTECTION RELAY BOARD	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- E-7-30, E17-539-1
3 COMMON 8000	20 S ACTIVE	00C29C 00C029C	EPS	EMERGENCY PROTECTION RELAY BOARD	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- E-7-30, E17-539-1
3 COMMON 8000	20 S ACTIVE	00C29D 00C029D	EPS	EMERGENCY PROTECTION RELAY BOARD	-	T2-100 165 Turbine Bldg - U2	OPERABLE OPERABLE	N/A N/A	- E-7-30, E17-539-1
3 COMMON	20 S ACTIVE	0AC097 0AC097	SDG-A	DIESEL GENERATOR 0AG12 CONTROL PANEL	-	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON	20 B ACTIVE	0AC142 0AC142	SDG-A	STANDBY DIESEL ENGINE CONTROL A PANEL 0AG12	-	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON	20 S ACTIVE	0AC216 0AC216	SDG-A	DIESEL CO2 SYSTEM ELECTRICAL CONTROL (20S102)	-	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713
3 COMMON 5112	20 S ACTIVE	0AC479 TIC-00272	SDG A - VENTILATION	E1 D/G ROOM SUPPLY TEMP CONTROL	M-385	D/G-13 151 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 8002	20 SR ACTIVE	0AG13 0AG013	SDG-A	E1 D/G P.T. AND EXCITATION EQUIPMENT	E-8	D/G-4 127 Diesel Generator	OFF ON	0AD13 -	- E-5-35-7
3 COMMON	20 S ACTIVE	0BC097 0BC097	SDG-B	DIESEL GENERATOR 0BG12 CONTROL PANEL	-	D/G-6 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON	20 B ACTIVE	0BC142 0BC142	SDG-B	STANDBY DIESEL ENGINE CONTROL B PANEL 0BG12	-	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON	20 S ACTIVE	0BC216 0BC216	SDG-B	DIESEL CO2 SYSTEM ELECTRICAL CONTROL (20S102)	-	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713
3 COMMON 5212	20 S ACTIVE	0BC479 TIC-00273	SDG B - VENTILATION	E2 D/G ROOM SUPPLY TEMP CONTROL	M-385	D/G-15 151 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 8005	20 SR ACTIVE	0BG13 0BG013	SDG-B	E2 D/G P.T. AND EXCITATION EQUIPMENT	E-8	D/G-6 127 Diesel Generator	OFF ON	0BD13 -	- E-5-35-7
3 COMMON	20 S ACTIVE	0CC097 0CC097	SDG-C	DIESEL GENERATOR 0CG12 CONTROL PANEL	-	D/G-8 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON	20 B ACTIVE	0CC142 0CC142	SDG-C	STANDBY DIESEL ENGINE CONTROL C PANEL 0CG12	-	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON	20 S ACTIVE	0CC216 0CC216	SDG-C	DIESEL CO2 SYSTEM ELECTRICAL CONTROL (20S102)	-	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713
3 COMMON 5312	20 S ACTIVE	0CC479 TIC-00274	SDG C - VENTILATION	E3 D/G ROOM SUPPLY TEMP CONTROL	M-385	D/G-17 151 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 8008	20 SR ACTIVE	0CG13 0CG013	SDG-C	E3 D/G P.T. AND EXCITATION EQUIPMENT	E-8	D/G-8 127 Diesel Generator	OFF ON	0CD13 -	- E-5-35-7
3 COMMON	20 S ACTIVE	0DC097 0DC097A	SDG-D	DIESEL GENERATOR 0DG12 CONTROL PANEL	-	D/G-10 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON	20 B ACTIVE	0DC142 0DC142	SDG-D	STANDBY DIESEL ENGINE CONTROL D PANEL 0DG12	-	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON	20 S ACTIVE	0DC216 0DC216	SDG-D	DIESEL CO2 SYSTEM ELECTRICAL CONTROL (20S102)	-	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- M-713
3 COMMON 5412	20 S ACTIVE	0DC479 TIC-00275	SDG D - VENTILATION	E4 D/G ROOM SUPPLY TEMP CONTROL	M-385	D/G-19 151 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 8011	20 SR ACTIVE	0DG13 0DG013	SDG-D	E4 D/G P.T. AND EXCITATION EQUIPMENT	E-8	D/G-10 127 Diesel Generator	OFF ON	0DD13 -	- E-5-35-7
3 COMMON 5129	20 B ACTIVE	LIC-52G-7250A LIC-7250A	SDG-A - LUBE OIL 6	E1 D/G LUBE OIL SUMP LEVEL REGULATOR 0AG12	M-377, SHT 3	D/G-4 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5229	20 B ACTIVE	LIC-52G-7250B LIC-7250B	SDG-B - LUBE OIL 6	E2 D/G LUBE OIL SUMP LEVEL REGULATOR 0BG12	M-377, SHT 3	D/G-6 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5329	20 B ACTIVE	LIC-52G-7250C LIC-7250C	SDG-C - LUBE OIL 6	E3 D/G LUBE OIL SUMP LEVEL REGULATOR 0CG12	M-377, SHT 3	D/G-8 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5429	20 B ACTIVE	LIC-52G-7250D LIC-7250D	SDG-D - LUBE OIL 6	E4 D/G LUBE OIL SUMP LEVEL REGULATOR 0DG12	M-377, SHT 3	D/G-10 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5144	20 B ACTIVE	LS-0566A LS-0566A	SDG-A - FUEL OIL	E1 D/G FUEL OIL DAY TANK LEVEL SWITCH FOR 0AT40 0AT40	M-377, SHT 4	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5244	20 B ACTIVE	LS-0566B LS-0566B	SDG-B- FUEL OIL	E2 D/G FUEL OIL DAY TANK LEVEL SWITCH FOR 0BT40 0BT40	M-377, SHT 4	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5344	20 B ACTIVE	LS-0566C LS-0566C	SDG-C - FUEL OIL	E3 D/G FUEL OIL DAY TANK LEVEL SWITCH FOR 0CT40 0CT40	M-377, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3	20	LS-0566D	SDG-D - FUEL OIL	E4 D/G FUEL OIL DAY TANK LEVEL SWITCH FOR 0DT40	M-377, SHT 4	D/G-9 127	OPERABLE	N/A	-
COMMON	B								
5444	ACTIVE	LS-0566D		0DT40		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0623A	SDG-A	E1 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-3 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0623A		0AG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0623B	SDG-B	E2 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-5 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0623B		0BG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0623C	SDG-C	E3 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-7 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0623C		0CG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0623D	SDG-D	E4 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-9 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0623D		0DG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0624A	SDG-A	E1 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-3 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0624A		0AG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0624B	SDG-B	E2 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-5 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0624B		0BG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0624C	SDG-C	E3 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-7 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0624C		0CG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0624D	SDG-D	E4 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-9 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0624D		0DG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0625A	SDG-A	E1 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-3 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0625A		0AG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0625B	SDG-B	E2 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-5 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0625B		0BG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0625C	SDG-C	E3 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-7 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0625C		0CG12		Diesel Generator	OPERABLE	N/A	-
3	20	PS-0625D	SDG-D	E4 D/G CRANKCASE PRESSURE SWITCH	M-377, SHT 3	D/G-9 127	OPERABLE	N/A	-
COMMON	B								
	ACTIVE	PS-0625D		0DG12		Diesel Generator	OPERABLE	N/A	-

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PBMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 5112	20 B ACTIVE	TIC-00272 TIC-00272	SDG A - VENTILATION	E1 D/G ROOM SUPPLY TEMP CONTROL	M-385	D/G-13 151 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5212	20 B ACTIVE	TIC-00273 TIC-00273	SDG B - VENTILATION	E2 D/G ROOM SUPPLY TEMP CONTROL	M-385	D/G-15 151 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5312	20 B ACTIVE	TIC-00274 TIC-00274	SDG C - VENTILATION	E3 D/G ROOM SUPPLY TEMP CONTROL	M-385	D/G-17 151 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5412	20 B ACTIVE	TIC-00275 TIC-00275	SDG D - VENTILATION	E4 D/G ROOM SUPPLY TEMP CONTROL	M-385	D/G-19 151 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0587A TS-0587A	SDG-A	E1 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0587B TS-0587B	SDG-B	E2 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0587C TS-0587C	SDG-C	E3 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0587D TS-0587D	SDG-D	E4 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0588A TS-0588A	SDG-A	E1 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0588B TS-0588B	SDG-B	E2 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0588C TS-0588C	SDG-C	E3 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0588D TS-0588D	SDG-D	E4 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0589A TS-0589A	SDG-A	E1 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON	20 B ACTIVE	TS-0589B TS-0589B	SDG-B	E2 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0589C TS-0589C	SDG-C	E3 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0589D TS-0589D	SDG-D	E4 D/G LUBE OIL TEMPERATURE HI	M-377, SHT 3	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0605A TS-0605A	SDG-A	E1 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0605B TS-0605B	SDG-B	E2 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0605C TS-0605C	SDG-C	E3 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0605D TS-0605D	SDG-D	E4 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0606A TS-0606A	SDG-A	E1 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0606B TS-0606B	SDG-B	E2 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0606C TS-0606C	SDG-C	E3 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0606D TS-0606D	SDG-D	E4 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0607A TS-0607A	SDG-A	E1 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0607B TS-0607B	SDG-B	E2 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON	20 B ACTIVE	TS-0607C TS-0607C	SDG-C	E3 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON	20 B ACTIVE	TS-0607D TS-0607D	SDG-D	E4 D/G JACKET COOLANT TEMPERATURE HI	M-377, SHT 2	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5805	21 B PASSIVE	0AE073 0AE073	HVAC	EMERG SWGR VENT SUP HEATING COIL A 0AV034	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OFF N/A	N/A N/A	-
3 COMMON 5131	21 B PASSIVE	0AE126 0AE126	SDG-A - LUBE OIL	E1 D/G LUBE OIL STANDBY HEATER	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	-
3 COMMON 5123, 5500	21 B PASSIVE	0AE376 0AE376	SDG-A - DIESEL COOLING	E1 D/G JACKET COOLANT COOLER	M-377, SHT 2	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5139, 5501	21 B PASSIVE	0AE377 0AE377	SDG-A - LUBE OIL	E1 D/G LUBE OIL COOLER	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5116, 5502	21 B PASSIVE	0AE378 0AE378	SDG-A - DIESEL COOLING	E1 D/G AIR COOLANT COOLER	M-377, SHT 2	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5900	21 S PASSIVE	0AS384 0AS384	HVAC	BACKUP NITROGEN TO 0BV035 AND 0A&BV034 FAN DAMPERS	M-399, SHT 1	R/W-29 165 Radwaste Bldg	OPERABLE OPERABLE	N/A N/A	- M-2801-3,M-1876
3 COMMON 5913	21 B PASSIVE	0AS385 0AS385	HVAC	BACKUP NITROGEN TO 0BV036 AND 0A&BV035 FAN DAMPERS 0BS385	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPERABLE OPERABLE	N/A N/A	- M-2801-3,M-1876
3 COMMON 5127	21 S ACTIVE	0AT096 0AT096	SDG-A - LUBE OIL 7	E1 D/G LUBE OIL STORAGE TANK	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-40
3 COMMON 5120	21 S PASSIVE	0AT097 0AT097	SDG-A - DIESEL COOLING	E1 D/G COOLANT EXPANSION TANK	M-377, SHT 2	D/G-4 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-38-4
3 COMMON 5140	21 S PASSIVE	0AT38 0AT038	SDG-A - FUEL OIL	DIESEL FUEL OIL STORAGE TANK	M-377, SHT 4	YARD 113 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor M-6214, C-64
3 COMMON 5143	21 S PASSIVE	0AT40 0AT040	SDG-A - FUEL OIL	E1 D/G FUEL OIL DAY TANK	M-377, SHT 4	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-36-5

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 5813	21 B PASSIVE	0BE073 0BE073	HVAC	EMERG SWGR VENT SUP HEATING COIL B 0BV034	M-399, SHT 1	R/W-32 165 Radwaste Bldg	OFF N/A	N/A N/A	- -
3 COMMON 5231	21 B PASSIVE	0BE126 0BE126	SDG-B - LUBE OIL	E2 D/G LUBE OIL STANDBY HEATER	M-377, SHT 3	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5223, 5503	21 B PASSIVE	0BE376 0BE376	SDG-B - DIESEL COOLING	E2 D/G JACKET COOLANT COOLER	M-377, SHT 2	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5239, 5504	21 B PASSIVE	0BE377 0BE377	SDG-B - LUBE OIL	E2 D/G LUBE OIL COOLER	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5216, 5505	21 B PASSIVE	0BE378 0BE378	SDG-B - DIESEL COOLING	E2 D/G AIR COOLANT COOLER	M-377, SHT 2	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5902, 5915	21 S PASSIVE	0BS385 0BS385	HVAC	BACKUP NITROGEN TO 0AV035 AND 0A&BV036 FAN DAMPERS	M-399, SHT 4	R/W-32 165 Radwaste Bldg	OPERABLE OPERABLE	N/A N/A	- M-2801-3,M-1876
3 COMMON 5227	21 S ACTIVE	0BT096 0BT096	SDG-B - LUBE OIL 7	E2 D/G LUBE OIL STORAGE TANK	M-377, SHT 3	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-40
3 COMMON 5220	21 S PASSIVE	0BT097 0BT097	SDG-B - DIESEL COOLING	E2 D/G COOLANT EXPANSION TANK	M-377, SHT 2	D/G-6 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-38-4
3 COMMON 5240	21 S PASSIVE	0BT38 0BT038	SDG-B - FUEL OIL	DIESEL FUEL OIL STORAGE TANK	M-377, SHT 4	YARD 113 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor M-6214, C-64
3 COMMON 5243	21 S PASSIVE	0BT40 0BT040	SDG-B - FUEL OIL	E2 D/G FUEL OIL DAY TANK	M-377, SHT 4	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-36-5
3 COMMON 5100	21 S PASSIVE	0BT95 0BT095	SDG-A - STARTING AIR	E1 D/G STARTING AIR RESERVOIR (AUTOMATIC START)	M-377, SHT 1	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-11-6
3 COMMON 5331	21 B PASSIVE	0CE126 0CE126	SDG-C - LUBE OIL	E3 D/G LUBE OIL STANDBY HEATER	M-377, SHT 3	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5323, 5506	21 B PASSIVE	0CE376 0CE376	SDG-C - DIESEL COOLING	E3 D/G JACKET COOLANT COOLER	M-377, SHT 2	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551

TRAIN Unit Line No	SQUG CI Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 5339, 5507	21 B PASSIVE	0CE377 0CE377	SDG-C - LUBE OIL	E3 D/G LUBE OIL COOLER	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5316, 5508	21 B PASSIVE	0CE378 0CE378	SDG-C - DIESEL COOLING	E3 D/G AIR COOLANT COOLER	M-377, SHT 2	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5327	21 S ACTIVE	0CT096 0CT096	SDG-C - LUBE OIL 7	E3 D/G LUBE OIL STORAGE TANK	M-377, SHT 3	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-40
3 COMMON 5320	21 S PASSIVE	0CT097 0CT097	SDG-C - DIESEL COOLING	E3 D/G COOLANT EXPANSION TANK	M-377, SHT 2	D/G-8 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-38-4
3 COMMON 5340	21 S PASSIVE	0CT38 0CT038	SDG-C - FUEL OIL	DIESEL FUEL OIL STORAGE TANK	M-377, SHT 4	YARD 113 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor M-6214, C-64
3 COMMON 5343	21 S PASSIVE	0CT40 0CT040	SDG-C - FUEL OIL	E3 D/G FUEL OIL DAY TANK	M-377, SHT 4	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-36-5
3 COMMON 5431	21 B PASSIVE	0DE126 0DE126	SDG-D - LUBE OIL	E4 D/G LUBE OIL STANDBY HEATER	M-377, SHT 3	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5423, 5509	21 B PASSIVE	0DE376 0DE376	SDG-D - DIESEL COOLING	E4 D/G JACKET COOLANT COOLER	M-377, SHT 2	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5439, 5510	21 B PASSIVE	0DE377 0DE377	SDG-D - LUBE OIL	E4 D/G LUBE OIL COOLER	M-377, SHT 3	D/G-3 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5416, 5511	21 B PASSIVE	0DE378 0DE378	SDG-D - DIESEL COOLING	E4 D/G AIR COOLANT COOLER	M-377, SHT 2	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor 11905551
3 COMMON 5427	21 S ACTIVE	0DT096 0DT096	SDG-D - LUBE OIL 7	E4 D/G LUBE OIL STORAGE TANK	M-377, SHT 3	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-40
3 COMMON 5420	21 S PASSIVE	0DT097 0DT097	SDG-D - DIESEL COOLING	E4 D/G COOLANT EXPANSION TANK	M-377, SHT 2	D/G-10 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-38-4
3 COMMON 5440	21 S PASSIVE	0DT38 0DT038	SDG-D - FUEL OIL	DIESEL FUEL OIL STORAGE TANK	M-377, SHT 4	YARD 113 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- Vendor M-6214, C-64

TRAIN Unit Line No	SQUG Cl Eval req'd? Function	Equip ID PIMS ID	System Notes	Equip Description ROB Mother Comp	Drawing No.	Loc Code Room Elev Building	Norm state Desired State	Motive power Contr power	Support System Supp Sys dwg
3 COMMON 5443	21 S PASSIVE	0DT40 0DT040	SDG-D - FUEL OIL	E4 D/G FUEL OIL DAY TANK	M-377, SHT 4	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-36-5
3 COMMON 5200	21 S PASSIVE	0DT95 0DT095	SDG-B - STARTING AIR	E2 D/G STARTING AIR RESERVOIR (AUTOMATIC START)	M-377, SHT 1	D/G-5 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-11-6
3 COMMON 5300	21 S PASSIVE	0FT95 0FT095	SDG-C - STARTING AIR	E3 D/G STARTING AIR RESERVOIR (AUTOMATIC START)	M-377, SHT 1	D/G-7 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-11-6
3 COMMON 5400	21 S PASSIVE	0HT95 0HT095	SDG-D - STARTING AIR	E4 D/G STARTING AIR RESERVOIR (AUTOMATIC START)	M-377, SHT 1	D/G-9 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- E-5-11-6
3 COMMON 5119	21 B PASSIVE	N/A	SDG-A - DIESEL COOLING	TURBO COOLERS (2) 0AG12	M-377, SHT 2	D/G - 3/4 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5219	21 B PASSIVE	N/A	SDG-B - DIESEL COOLING	TURBO COOLERS (2) 0BG12	M-377, SHT 2	D/G - 5/6 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5319	21 B PASSIVE	N/A	SDG-C - DIESEL COOLING	TURBO COOLERS (2) 0CG12	M-377, SHT 2	D/G - 7/8 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -
3 COMMON 5419	21 B PASSIVE	N/A	SDG-D - DIESEL COOLING	TURBO COOLERS (2) 0DG12	M-377, SHT 2	D/G - 9/10 127 Diesel Generator	OPERABLE OPERABLE	N/A N/A	- -

NOTES - KEY:

1 Control Rod Hydraulic Control Unit - Typical of 185
2 Control Rod Drive - Typical of 185
3 Included in SPCL for Grandfather Purposes Only
4 Solenoid-Valve Integral to Air-Operated-Valve Requires Review As Well
5 Open Valve to Cross-Tie Loops A and B of HPSW
6 Sight Glass
7 Seismic Fire Interaction
8 Valve Locked Open
9 Valve Opened for Suppression Pool Cooling
10 Valve Opened for LPCI and ASC
11 Valve Locked Closed
12 Seismic Cat 1 component, but not required for USI A-46 or IPEEE
13 The Mechanical Equipment ID is MO3-23C-5244A and the Electrical Equipment ID is MO3-23B-4245
14 The Mechanical Equipment ID is MO2-23C-4244A and the Electrical Equipment ID is MO2-23B-4245
15 Components listed with a "PBO" in the NOTES field are required for Pressure Boundary Only

Exelon NTTF 2.3: Seismic Walkdown Seismic Walkdown Equipment List (SWEL)

UNIT: PEACH BOTTOM UNIT 3

PREPARER: Ben Frazier
Ben Frazier, MPR

PEER REVIEWER: Craig Swanner
Craig Swanner, MPR

PEER REVIEW TEAM LEADER: Patrick Butler
Patrick Butler, MPR

PBAPS OPERATIONS REPRESENTATIVE: Joe Hanley
Joe Hanley

Table B-1. SWEL for Unit 3

Unit SWEL	Component ID	Description	EPRI Class	Building	Elevation	Location	NTTF 2.3 Function					Risk Significant?	New or Replace?	IPEEE Enhancement?
							Reactivity	Pressure	Inventory	Decay Heat	Containment			
3	30S037	HPCI Turbine	(00) Other	Reactor	88	R3-13	---	---	X	---	---	Y	N	N
3	HCU-06-47	Hydraulic Control Unit	(00) Other	Reactor	135	R3-24	X	---	---	---	---	N	N	Y
3	HCU-14-35	Hydraulic Control Unit	(00) Other	Reactor	135	R3-24	X	---	---	---	---	N	N	Y
3	30B324	MO-3-23-015 Motor Control Power Transfer Switch	(01) Motor Control Centers	Turbine	135	Recirc mg set room	---	---	X	---	---	N	N	N
3	30B325	MO-3-13-15 Motor Control Starter Panel	(01) Motor Control Centers	Turbine	135	Recirc mg set room	---	---	X	---	---	N	N	N
3	30B338	MO3-10-16A Auto Transfer Switch	(01) Motor Control Centers	Turbine	135	Recirc mg set room	---	---	---	X	---	N	N	N
3	30B010	Emergency Aux Load Center E134 Switchgear	(02) Low Voltage Switchgears	Reactor	165	R3-116	X	X	X	X	X	N	N	Y
3	30B013	Emergency Aux Load Center E434 Switchgear	(02) Low Voltage Switchgears	Reactor	165	R3-41	X	X	X	X	X	Y	N	Y
3	30X030	Load Center E134 Transformer	(04) Transformers	Reactor	165	R3-116	X	X	X	X	X	N	N	Y
3	30X033	Load Center E434 Transformer	(04) Transformers	Reactor	165	R3-41	X	X	X	X	X	Y	N	Y
3	30X133	Panel 30Y33 Transformer	(04) Transformers	Turbine	135	T3-171	X	X	X	X	X	N	N	Y
3	30P033, 30P038	HPCI Booster Pump, Pump	(05) Horizontal Pumps	Reactor	88	R3-13	---	---	X	---	---	Y	N	N
3	30P036 & 30S038	RCIC Pump & Turbine	(05) Horizontal Pumps	Reactor	88	R3-14	---	---	X	---	---	Y	N	N
3	3AP035	RHR Pump A	(06) Vertical Pumps	Reactor	91	R3-5	---	---	---	X	---	N	N	N
3	3AP037	Core Spray Pump A	(06) Vertical Pumps	Reactor	91	R3-9	---	---	X	---	---	N	N	N
3	3CP035	RHR Pump C	(06) Vertical Pumps	Reactor	91	R3-7	---	---	---	X	---	N	N	N
3	3CP042	High Pressure Service Water Pump C	(06) Vertical Pumps	Pump Structure	112	P/H-9	---	---	---	X	---	N	N	N
3	AO3-03-33	Scram Discharge Volume Inboard Isolation Valve	(07) Fluid (Air/Hyd) Valves	Reactor	135	R3-22	X	---	---	---	---	N	N	N
3	AO3-03-36	Scram Discharge Volume Outboard Isolation Valve	(07) Fluid (Air/Hyd) Valves	Reactor	135	R3-22	X	---	---	---	---	N	N	N
3	H03-23C-5512	HPCI Turbine Governor Control Valve	(07) Fluid (Air/Hyd) Valves	Reactor	88	R3-13	---	---	X	---	---	N	N	N
3	RV3-23-034	HPCI Pump Suction Header Relief Valve	(07) Fluid (Air/Hyd) Valves	Reactor	88	R3-13	---	---	X	---	---	N	N	N
3	MO3-10-013C	RHR Pump Torus Suction Valve	(08a) Motor Operated Valves	Reactor	91	R3-7	---	---	---	X	---	N	N	N
3	MO3-10-015C	RHR Pump Shutdown Cooling Suction	(08a) Motor Operated Valves	Reactor	91	R3-5	---	---	---	X	---	N	N	N
3	MO3-10-89C	RHR HX HPSW Outlet Valve	(08a) Motor Operated Valves	Reactor	116	R3-17	---	---	---	X	---	N	N	N
3	MO3-30-3233A	Unit 3A Sluice Gate	(08a) Motor Operated Valves	Screen House	116	S/H-4	X	X	X	X	X	N	N	N

Table B-1. SWEL for Unit 3

Unit SWEL	Component ID	Description	EPRI Class	Building	Elevation	Location	NTTF 2.3 Function					Risk Significant?	New or Replace?	IPEEE Enhancement?
							Reactivity	Pressure	Inventory	Decay Heat	Containment			
3	MO-3-32-3803	HPSW Return Valve to ECT	(08a) Motor Operated Valves	Diesel Generator Building	121	D/G-2	---	---	---	X	---	N	N	N
3	MO-3-48-3804B	HPSW Bay Inlet Inner Valve	(08a) Motor Operated Valves	Emergency Cooling Towers	114	ECT-1	---	---	---	X	---	N	N	N
3	MO-3-10-013A	RHR Pump Suction Valve A	(08a) Motor Operated Valves	Reactor	91	R3-5	---	---	---	X	---	N	N	N
3	SV3-3-33	Instrument Air Solenoid Valve	(08b) Solenoid Operated Valves	Reactor	135	R3-22	X	---	---	---	---	N	N	N
3	SV3-3-36	Instrument Air Solenoid Valve	(08b) Solenoid Operated Valves	Reactor	135	R3-22	X	---	---	---	---	N	N	N
3	3AV083	HPSW Pump Room Exhaust Fan	(09) Fans	Pump Structure	112	P/H-9	---	---	---	X	---	N	N	N
3	3AE058	RHR Room A Cooling Coil A	(10) Air Handlers	Reactor	116	R3-5	---	---	---	X	---	N	N	N
3	3AE55	RCIC Room Cooling Coil A	(10) Air Handlers	Reactor	88	R3-14	---	---	X	---	---	N	N	N
3	3AE56	HPCI Room Cooling Coil A	(10) Air Handlers	Reactor	88	R3-13	---	---	X	---	---	N	N	N
3	3AE57	Core Spray Room A Cooling Coil A	(10) Air Handlers	Reactor	91	R3-9	---	---	X	---	---	N	N	N
3	3BE55	RCIC Room Cooling Coil B	(10) Air Handlers	Reactor	88	R3-14	---	---	X	---	---	N	N	N
3	3BE57	Core Spray Room A Cooling Coil B	(10) Air Handlers	Reactor	91	R3-9	---	---	X	---	---	N	N	N
3	3BE58	RHR Room A Cooling Coil B	(10) Air Handlers	Reactor	91	R3-5	---	---	---	X	---	N	N	N
3	P0D-3-40H-30223-3	HPSW Pump Room A Loop Supply Damper	(10) Air Handlers	Pump Structure	112	P/H-9	X	X	X	X	X	N	N	N
3	P0D-3-40H-30223-4	HPSW Pump Room B Loop Exhaust Damper	(10) Air Handlers	Pump Structure	112	P/H-9	X	X	X	X	X	N	N	N
3	30S703	120V Inst. Panel 30Y035 Transfer Switch	(14) Distribution Panels	Reactor	135	R3-29	X	X	X	X	X	N	N	N
3	30Y050	120V AC Distribution Panel	(14) Distribution Panels	Turbine	150	T3-81	X	X	X	X	X	N	N	N
3	30Y035	3PPD 125V DC Distribution Panel 3C	(14) Distribution Panels	Reactor	135	R3-29	X	X	X	X	X	N	N	N
3	3BD025	3B 125 VDC Distribution Panel	(14) Distribution Panels	Turbine	150	T3-81	X	X	X	X	X	N	N	N
3	3DC068	RPS SCRAM solenoid fuse panel D	(14) Distribution Panels	Reactor	135	R3-24	X	---	---	---	---	N	N	N
3	3BD01	125 VDC Battery 3B	(15) Batteries & Racks	Turbine	135	T3-169	X	X	X	X	X	N	N	Y
3	3CD001	125 VDC Battery 3C	(15) Batteries & Racks	Turbine	135	T3-70	X	X	X	X	X	Y	N	Y
3	3DD01	125 VDC Battery 3D	(15) Batteries & Racks	Turbine	135	T3-169	X	X	X	X	X	Y	N	Y

Table B-1. SWEL for Unit 3

Unit SWEL	Component ID	Description	EPRI Class	Building	Elevation	Location	NTTF 2.3 Function					Risk Significant?	New or Replace?	IPEEE Enhancement?
							Reactivity	Pressure	Inventory	Decay Heat	Containment			
3	30D37	Static Inverter	(16) Battery Chargers and Inverters	Turbine	135	T3-74	X	X	X	X	X	N	N	N
3	3CD03	Battery Charger 3C	(16) Battery Chargers and Inverters	Turbine	135	T3-170	X	X	X	X	X	Y	N	N
3	3DD03	Battery Charger 3D	(16) Battery Chargers and Inverters	Turbine	135	T3-172	X	X	X	X	X	Y	N	N
3	30C095	RCIC Instrument Rack	(18) Instruments on Racks / Not on Racks	Reactor	88	R3-15	---	---	X	---	---	N	N	N
3	30C087	HPCI Instrument Rack	(18) Instruments on Racks / Not on Racks	Reactor	88	R3-15	---	---	X	---	---	N	N	N
3	3AC65	RPS Instrument Rack	(18) Instruments on Racks / Not on Racks	Reactor	165	R3-40	---	X	---	---	---	N	N	N
3	3BC065	RPS Instrument Rack B	(18) Instruments on Racks / Not on Racks	Reactor	135	R3-29	---	X	---	---	---	N	N	N
3	LS3-23-91A	Suppression Pool Level Switch	(18) Instruments on Racks / Not on Racks	Reactor	91	R3-11	---	---	---	X	X	N	N	N
3	LT3-2-3-61	Reactor Vessel Water Level Transmitter	(18) Instruments on Racks / Not on Racks	Reactor	165	R3-40	---	---	X	---	---	N	N	N
3	LT-9123A	Torus Water Level Transmitter	(18) Instruments on Racks / Not on Racks	Reactor	91	R3-11	---	---	---	X	X	N	N	N
3	PS30224-2	HPSW Pump Room B Loop Pressure Switch	(18) Instruments on Racks / Not on Racks	Pump Structure	112	P/H-9	X	X	X	X	X	N	N	N
3	PT3-2-3-404A	Reactor Pressure Transmitter	(18) Instruments on Racks / Not on Racks	Reactor	165	R3-40	---	X	---	---	---	N	N	N
3	PT3-6-53A	Reactor Wide Range Pressure Transmitter	(18) Instruments on Racks / Not on Racks	Reactor	165	R3-40	---	X	---	---	---	N	N	N
3	PT-5805	Drywell Pressure Transmitter	(18) Instruments on Racks / Not on Racks	Reactor	116	R3-21	---	---	---	---	X	N	N	N
3	30C003	Reactor and Containment Cooling and Isolation	(20) Control Panels & Cabinets	Turbine	165	T3-100	---	---	X	---	---	N	N	N
3	30C004C	RCIC Vertical Board	(20) Control Panels & Cabinets	Turbine	165	T3-100	---	---	X	---	---	N	N	N
3	30C005A	Reactor Manual Control Board	(20) Control Panels & Cabinets	Turbine	165	T3-100	X	---	---	---	---	N	N	N
3	30C32	Egr Safeguard Sub-Sys I	(20) Control Panels & Cabinets	Turbine	150	T3-81	X	---	---	---	---	N	N	Y
3	30C33	Egr Safeguard Sub-Sys II	(20) Control Panels & Cabinets	Turbine	150	T3-81	X	---	---	---	---	N	N	N
3	30C34	RCIC Relay Panel	(20) Control Panels & Cabinets	Turbine	150	T3-81	---	---	X	---	---	N	N	N
3	30C722A	Accident Monitoring Instrumentation Panel	(20) Control Panels & Cabinets	Turbine	150	T3-81	X	---	---	---	---	N	N	Y
3	30C722B	Accident Monitoring Instrumentation Panel	(20) Control Panels & Cabinets	Turbine	150	T3-81	X	---	---	---	---	N	N	Y

Table B-1. SWEL for Unit 3

Unit SWEL	Component ID	Description	EPRI Class	Building	Elevation	Location	NTTF 2.3 Function					Risk Significant?	New or Replace?	IPEEE Enhancement?
							Reactivity	Pressure	Inventory	Decay Heat	Containment			
3	30D043	HPCI Aux Lube Oil Pump Starter	(20) Control Panels & Cabinets	Reactor	88	R3-13	---	---	X	---	---	N	N	N
3	3BC270	Steam B Leak Monitor Cabinet	(20) Control Panels & Cabinets	Turbine	165	T3-100	---	---	X	---	---	N	N	N
3	LI3-2-3-113	Reactor Water Level	(20) Control Panels & Cabinets	Turbine	165	T3-100	---	---	X	---	---	N	N	N
3	LI-9027	Torus Water Level	(20) Control Panels & Cabinets	Turbine	165	T3-100	---	---	---	X	X	N	N	N
3	LR/TR-9123B	Torus Water Level/Temperature Recorder	(20) Control Panels & Cabinets	Turbine	165	T3-100	---	---	---	X	X	N	N	N
3	PI3-6-90A	Reactor Wide Range Pressure Indicator	(20) Control Panels & Cabinets	Turbine	165	T3-100	---	X	---	---	---	N	N	N
3	PR/RR3-2-3-404B	Reactor Pressure/Drywell Gas Recorder	(20) Control Panels & Cabinets	Turbine	165	T3-100	---	X	---	---	---	N	N	N
3	PR/TR-5805	Containment Pressure/Temp	(20) Control Panels & Cabinets	Turbine	165	T3-100	---	---	---	---	X	N	N	N
3	3AE124	RHR Pump 3A Seal Cooler	(21) Tanks or Heat Exchangers (Horizontal)	Reactor	91	R3-5	---	---	---	X	---	N	N	N
3	3CE24	RHR Heat Exchanger C	(21) Tanks or Heat Exchangers (Vertical)	Reactor	91	R3-17	---	---	---	X	---	N	N	N

Table B-2. SWEL for Unit 0 (common)

Unit SWEL	Component ID	Description	EPRI Class	Building	Elevation	Location	NTTF 2.3 Function					Risk Significant?	New or Replace?	IPEEE Enhancement?
							Reactivity	Pressure	Inventory	Decay Heat	Containment			
0	00B061	Pump Structure MCC E224-P-A	(01) Motor Control Center	Pump Structure	112	P/H-6	X	X	X	X	X	N	N	N
0	0AP060	E1 D/G Fuel Oil Transfer Pump	(05) Horizontal Pumps	Diesel Generator Building	127	D/G-3	X	X	X	X	X	Y	N	N
0	0AP163	Emergency Service Water Booster Pump A	(05) Horizontal Pumps	Diesel Generator Building	127	D/G-1	X	X	X	X	X	N	N	N
0	0DP060	E4 D/G Fuel Oil Transfer Pump	(05) Horizontal Pumps	Diesel Generator Building	127	D/G-9	X	X	X	X	X	Y	N	N
0	0BP057	Emergency Service Water Pump B	(06) Vertical Pumps	Pump Structure	112	P/H-9	X	X	X	X	X	N	N	Y
0	A0-33-0241D	ESW Outlet Block Valve from Diesel Generator E4 Coolers	(07) Fluid (Air/Hyd) Valves	Diesel Generator Building	127	D/G-9	X	X	X	X	X	N	N	N
0	TCV-0-52E-7239A	D/G Jacket Coolant 3-Way Thermostatic Control Valve	(07) Fluid (Air/Hyd) Valves	Diesel Generator Building	127	D/G-3	X	X	X	X	X	N	N	N
0	MO-0-33-0498	ESW Return to Discharge Pond	(08a) Motor Operated Valves	Diesel Generator Building	127	D/G-2	X	X	X	X	X	Y	N	Y
0	MO-48-0501A	ESW A Inlet to ECT Reservoir	(08a) Motor Operated Valves	Emergency Cooling Towers	114	ECT-1	X	X	X	X	X	N	N	N
0	0AV030	Control Room Emerg Vent Supply Fan A	(09) Fans	Turbine	165	R/W-32	X	X	X	X	X	N	N	N
0	0AV036	Battery Room Exhaust Fan A	(09) Fans	Radwaste	165	R/W-32	X	X	X	X	X	N	N	N
0	0AV064	D/G Building Vent Supply Fan	(09) Fans	Diesel Generator Building	151	D/G-19	X	X	X	X	X	N	N	N
0	0BK032	Emergency Cooling Tower Fan B	(09) Fans	Emergency Cooling Towers	195	ECT-6	X	X	X	X	X	N	N	N
0	0BV030	Control Room Emergency Ventilation Supply Fan B	(09) Fans	Turbine	165	R/W-32	X	X	X	X	X	N	N	N
0	0BV035	Emergency Switchgear Ventilation Exhaust Fan B	(09) Fans	Radwaste	165	R/W-32	X	X	X	X	X	N	N	N
0	0BV036	Battery Room Exhaust Fan B	(09) Fans	Turbine	165	R/W-32	X	X	X	X	X	N	N	N
0	0DV064	D/G Building Vent Supply Fan	(09) Fans	Diesel Generator Building	151	D/G-20	X	X	X	X	X	N	N	N

Table B-2. SWEL for Unit 0 (common)

Unit SWEL	Component ID	Description	EPRI Class	Building	Elevation	Location	NTTF 2.3 Function					Risk Significant?	New or Replace?	IPEEE Enhancement?
							Reactivity	Pressure	Inventory	Decay Heat	Containment			
0	PO-0-40F-00272-01	Master for E1 EDG Building Vent Supply Fan Outside Air Damper	(10) Air Handlers	Diesel Generator Building	151	D/G-19	X	X	X	X	X	N	N	N
0	PO-0-40F-00272-02	Master for E1 EDG Building Vent Supply Fan Return Air Damper	(10) Air Handlers	Diesel Generator Building	151	D/G-19	X	X	X	X	X	N	N	N
0	0AG012	E1 Standby Diesel Generator	(17) Engine Generators	Diesel Generator Building	127	D/G-3	X	X	X	X	X	Y	N	Y
0	0DG012	E4 Standby Diesel Generator	(17) Engine Generators	Diesel Generator Building	127	D/G-9	X	X	X	X	X	Y	N	Y
0	TS-0607D	E4 D/G Jacket Coolant Temperature Sensor	(19) Temperature Sensors	Diesel Generator Building	127	D/G-9	X	X	X	X	X	N	N	N
0	00C29B	Emergency Protection Relay Board	(20) Control Panels & Cabinets	Turbine	165	T2-100	X	---	---	---	---	N	N	Y
0	0AC097	Diesel Generator 0AG12 Control Panel	(20) Control Panels & Cabinets	Diesel Generator Building	127	D/G-3	X	X	X	X	X	N	N	N
0	0AT096	E1 Diesel Generator Lube Oil Storage Tank	(21) Tanks or Heat Exchangers (Horizontal)	Diesel Generator Building	127	D/G-3	X	X	X	X	X	N	N	N
0	0AT040	E1 Diesel Generator Fuel Oil Day Tank	(21) Tanks or Heat Exchangers (Vertical)	Diesel Generator Building	127	D/G-3	X	X	X	X	X	N	N	N
0	0DE377	E4 Diesel Generator Lube Oil Cooler	(21) Tanks or Heat Exchangers (Vertical)	Diesel Generator Building	127	D/G-9	X	X	X	X	X	N	N	N
0	0DT40	E4 Diesel Generator Fuel Oil Day Tank	(21) Tanks or Heat Exchangers (Vertical)	Diesel Generator Building	127	D/G-9	X	X	X	X	X	N	N	N
0	0HT95	E4 Diesel Generator Starting Air Reservoir	(21) Tanks or Heat Exchangers (Vertical)	Diesel Generator Building	127	D/G-9	X	X	X	X	X	N	N	N

Table B-3. Deferred to RFO or Electrical Bus Outage: Inaccessible or Electrical Safety Concern

Unit SWEL	Component ID	Description	EPRI Class	Building	Elevation	Location	NTTF 2.3 Function					Risk Significant?	New or Replace?	IPEEE Enhancement?
							Reactivity	Pressure	Inventory	Decay Heat	Containment			
3	30B37	480V Reactor Area MCC E234-R-B	(01) Motor Control Centers	Reactor	135	R3-23	X	X	X	X	X	N	N	N
0	00B94	480V Bus E13A4	(02) Low Voltage Switchgears	Emergency Cooling Tower	153	ECT-3	X	X	X	X	X	N	N	Y
3	30B011	480V Load Center E234	(02) Low Voltage Switchgears	Reactor	165	R3-41	X	X	X	X	X	N	N	N
3	30A15	Emergency 4kV Aux Switchgear	(03) Medium Voltage Switchgears	Turbine	135	T3-171	X	X	X	X	X	N	N	Y
3	A03-01-080A	Inboard Main Steam Isolation Valve A	(07) Fluid (Air/Hyd) Valves	Drywell	134	D/W3-18	---	---	---	---	X	N	N	N
3	A03-01-080C	Inboard Main Steam Isolation Valve C	(07) Fluid (Air/Hyd) Valves	Drywell	134	D/W3-19	---	---	---	---	X	N	N	N
3	RV3-02-071D	Safety Relief Valve D	(07) Fluid (Air/Hyd) Valves	Drywell	155	D/W3-26	---	X	---	---	---	N	N	N
3	RV3-02-071F	Safety Relief Valve F	(07) Fluid (Air/Hyd) Valves	Drywell	155	D/W3-29	---	X	---	---	---	N	N	N
3	MO3-06-029A	Feedwater Stop Valve	(08a) Motor Operated Valves	Drywell	155	D/W3-29	---	---	---	---	X	N	N	N
3	MO3-23-015	HPCI Turbine Steam Line Inboard Isolation Valve	(08a) Motor Operated Valves	Drywell	134	D/W3-15	---	---	X	---	---	N	N	N
3	MO3-23-019	HPCI Discharge to Feedwater Line Valve	(08a) Motor Operated Valves	Reactor [MSIV Room]	135	R3-30	---	---	X	---	---	N	N	N
3	3BT540	Instrument N2 Accumulator	(21) Tanks or Heat Exchangers (Vertical)	Drywell	155	D/W3-27	X	---	---	---	---	N	N	N
3	3KT545	Instrument N2 Accumulator	(21) Tanks or Heat Exchangers (Vertical)	Drywell	155	D/W3-34	X	---	---	---	---	N	N	N