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Dominion®

November 27, 2012

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Serial No. 12-205H
NL&OS/WDC R0
Docket Nos. 50-336/423
License Nos. DPR-65
NPF-49

**DOMINION NUCLEAR CONNECTICUT, INC.**
**MILLSTONE POWER STATION UNITS 2 AND 3**
**REPORT IN RESPONSE TO MARCH 12, 2012 INFORMATION REQUEST**
**REGARDING SEISMIC ASPECTS OF RECOMMENDATION 2.3**

On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued, "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," to all power reactor licensees and holders of construction permits in active or deferred status. Seismic Recommendation 2.3 requires licensees to conduct seismic walkdowns at their plants to identify and address plant specific degraded, nonconforming, or unanalyzed conditions such that the nuclear power plant can respond to external events.

For Seismic Recommendation 2.3, Enclosure 3 of the letter states that within 180 days of the NRC's endorsement of the walkdown process, each licensee will submit its final response. The response should include a list of any areas that are unable to be inspected due to inaccessibility and a schedule for when the walkdowns will be completed.

In a letter dated May 31, 2012, the NRC endorsed EPRI 1025286, "Seismic Walkdown Guidance: For Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic," which Dominion Nuclear Connecticut, Inc. (DNC) used to conduct its seismic walkdowns for Millstone Power Station (MPS) Units 2 and 3. Attachments 1 and 2, on the attached compact disc, provide the walkdown reports as DNC's response to Seismic Recommendation 2.3 for MPS2 and MPS3, respectively. Attachment 3 provides a list of items for which inspections could not be completed due to inaccessibility and a schedule of when the walkdowns for these items will be completed. A supplemental submittal will be provided to the NRC with the results of the deferred seismic walkdowns for MPS2 and MPS3 by August 30, 2014.

A001

If you have any questions regarding this information, please contact Wanda Craft at (804) 273-4687.

Sincerely,

David A. Heacock
President and Chief Nuclear Officer
Dominion Nuclear Connecticut, Inc.

VICKI L. HULL
Notary Public
Commonwealth of Virginia
140542
My Commission Expires May 31, 2014

COMMONWEALTH OF VIRGINIA )
)
COUNTY OF HENRICO )

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by David A. Heacock, who is President and Chief Nuclear Officer of Dominion Nuclear Connecticut, Inc. He has affirmed before me that he is duly authorized to execute and file the foregoing document in behalf of that company, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 27TH day of November, 2012.

My Commission Expires: May 31, 2014

Vicki L. Hull
Notary Public

Commitments made in this letter:

1. Seismic walkdowns that could not be completed due to inaccessibility will be completed as indicated in Attachment 3, Table 3-1 and Table 3-2 and a supplemental submittal will be provided to the NRC for MPS2 and MPS3 by August 30, 2014.

Attachments:

1. Millstone Power Station Unit 2 Seismic Walkdown Summary Report
2. Millstone Power Station Unit 3 Seismic Walkdown Summary Report
3. List of Inaccessible Items

cc: U.S. Nuclear Regulatory Commission
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NRC Senior Resident Inspector
Millstone Power Station

**ATTACHMENTS 1 and 2**

**(See attached compact disc)**

# MILLSTONE POWER STATION UNITS 2 AND 3
# MILLSTONE SEISMIC WALKDOWN SUMMARY REPORT

**DOMINION NUCLEAR CONNECTICUT, INC.**
**MILLSTONE POWER STATION UNITS 2 AND 3**

# ATTACHMENT 3

## LIST OF INACCESSIBLE ITEMS

**DOMINION NUCLEAR CONNECTICUT, INC.**
**MILLSTONE POWER STATION UNITS 2 AND 3**

## Table 3-1: MPS2 Deferred Walkdown Items

| ID Number | Description | Location | Inspection Completion Schedule |
|---|---|---|---|
| M2C58A* | A SERVICE WATER PUMP DISCH STRAINER CONTROL PANEL L1A | Intake Structure | Spring outage 2014 |
| M2FLP-5* | EAST D.C. SWITCHGEAR ROOM HALON FIRE SYSTEM PANEL | East DC Switchgear Room | Spring outage 2014 |
| M2F22B-PNL* | B CONTROL ROOM A/C COMPRESSOR PANEL | Control Room H&V Room | Spring outage 2014 |
| M2F22A-PNL* | A CONTROL ROOM A/C COMPRESSOR PANEL | Control Room H&V Room | Spring outage 2014 |
| M2C70A* | FIRE SHUTDOWN BOTTLE UP PANEL | East Switchgear Room | Spring outage 2014 |

* Walkdown inspection complete with the exception of access to electrical cabinet internally mounted items.

## Table 3-2: MPS3 Deferred Walkdown Items

| ID Number | Description | Location | Inspection Completion Schedule |
|---|---|---|---|
| M332Y | 480 VOLT LOAD CENTER 32Y | Auxiliary Building | Spring outage 2013 |
| M33CHS*RV8121 | SEAL RETURN LINE INLET CONTAINMENT RELIEF | Containment | Spring outage 2013 |
| M33RCS*PCV455A | POWER OPERATED RELIEF VALVE | Containment | Spring outage 2013 |
| M33CHS*MV8112 | SEAL WATER RETURN CTMT ISOL | Containment | Spring outage 2013 |
| M33SIL*MV8808A | SI ACCUMULATOR TANK 1 OUTLET ISOL | Containment | Spring outage 2013 |
| M332-1R[1] | 480V AC MOTOR CONTROL CENTER | Auxiliary Building | Spring outage 2013 |
| M332-1U[1] | 480V MCC 32-1U (EMERG) EMERGENCY GENERATOR | 'B' Diesel Generator Room | Spring outage 2013 |
| M332-2R[1] | 480 VOLT MCC 32-2R(EMERG) ROD CONTROL | Auxiliary Building | Spring outage 2013 |

| ID Number | Description | Location | Inspection Completion Schedule |
|---|---|---|---|
| M332-1W[1] | 480 VOLT MCC 32-1W(EMERG) AUX BLDG. | Auxiliary Building | Spring outage 2013 |
| M332-4T[1] | 480V MCC | ESF Building | Spring outage 2013 |
| M332-5T[1] | 480 VOLT MCC 32-5T(EMERG) CIRC WATER PUMP HOUSE | Circulating Water Pump House | Spring outage 2013 |
| M332-2U[1] | 480 VOLT MCC32-2U | Auxiliary Building | Spring outage 2013 |
| M33BYS*PNL2[1] | BATTERY BUS 2 (301B-1) | Control Building | Spring outage 2013 |
| M33BYS*PNL1[1] | BATTERY BUS 1 (301A-1) | Control Building | Spring outage 2013 |
| M33VBA*XRC-2[1] | VIAC-2 ALTERNATE SOURCE TRANSFORMER | Control Building | Spring outage 2013 |
| M33LAC*EXL2P[1] | 3LAC*PNL3C2P LIGHTING TRANSFORMER | Control Building | Spring outage 2013 |
| M33SCV*XD5P[1] | AC DIST PANEL TRANSFORMER AUXILIARY | Auxiliary Building | Spring outage 2013 |
| M33SCV*XD1O[1] | 240V/120V STEP DOWN XFMR ORANGE | Control Building | Spring outage 2013 |
| M33CES*PNLTSB[1] | B TRAIN TRANSFER SWITCH PANEL | Control Building | Spring outage 2013 |
| M33BYS*CHGR-1[1] | BATTERY CHARGER 1 (301A-1) | Control Building | Spring outage 2013 |
| M33BYS*CHGR-3[1] | BATTERY CHARGER 3 (301A-2) | Control Building | Spring outage 2013 |
| M33VBA*INV1[1] | INVERTER 1 | Control Building | Spring outage 2013 |
| M33VBA*INV3[1] | INVERTER 3 | Control Building | Spring outage 2013 |
| M33CHS*ZT190B[1] | CHG HDR FLOW CNTRL VLV 3CHS*HCV190B ELEC CNTR MOD | Auxiliary Building | Spring outage 2013 |

[1] Walkdown inspection complete with the exception of access to electrical cabinet internally mounted items.

# Dominion Nuclear Connecticut, Inc.
# Millstone Power Station Unit 2

## Seismic Walkdown Summary Report

## Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic

November, 2012

# Executive Summary

On March 12, 2012, the U.S. Nuclear Regulatory Commission (NRC) staff issued requests for information pursuant to 10 CFR 50.54(f) related to the Near Term Task Force (NTTF) recommendations. Enclosure 3 of the NRCs 50.54(f) letter requested utilities to provide information related to NTTF Recommendation 2.3: Seismic, as amended by the Staff Requirements Memoranda (SRM) associated with SECY-11-0124 and SECY-11-0137. The nuclear power industry and the NRC cooperatively developed guidelines and procedures to perform the seismic walkdowns. The resulting EPRI Report No. 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic* (EPRI 1025286) provides guidance and procedures for performing the seismic walkdowns.

Dominion followed the EPRI 1025286 guidance in developing the Seismic Walkdown Equipment List (SWEL), performing the Millstone Power Station (MPS) Unit 2 seismic walkdowns and developing the submittal report. Seismic walkdowns of accessible items have been completed. Some items included on the SWEL were not sufficiently accessible to complete the walkdown inspection. Walkdowns for these items are planned to be completed by the end of the next scheduled refueling outage (Spring 2014). A revised Summary Report will be issued following completion of the seismic walkdowns.

By completing and documenting the requested seismic walkdowns for MPS Unit 2, Dominion has met the objectives of the NRC request for information related to NTTF Recommendation 2.3: Seismic. Potentially adverse conditions identified during the completed seismic walkdowns and area walk-bys were submitted as Condition Reports (CRs) in the MPS Unit 2 corrective action program (CAP). To date, no significant issues that challenged the MPS Unit 2 seismic licensing or design basis have been identified as a result of the walkdowns.

# Millstone Power Station Unit 2
# Seismic Walkdown Summary Report

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# Background

Following the accident at the Fukushima Daiichi nuclear power plant resulting from the March 11, 2011, Great Tohoku Earthquake and subsequent tsunami, the Nuclear Regulatory Commission (NRC) established the Near Term Task Force (NTTF) in response to Commission direction. The NTTF was tasked with conducting a review of NRC regulations and processes and determining if the NRC should make additional improvements.

A set of recommendations made by the task force was included in a report provided to the Commission. Although the NRC concluded that continued plant operation did not pose an imminent risk to public health and safety, the Commission directed the NRC staff (in the Staff Requirements Memorandum (SRM) to SECY-11-0093) to determine those recommendations that should be implemented without unnecessary delay. In SECY-11-0124, the NRC staff identified the NTTF recommendations that should be implemented without delay, including the development of information requests to be made under 10 CFR 50.54(f).

The NRC issued the requests for information pursuant to 10 CFR 50.54(f) on March 12, 2012 related to the following NTTF recommendations (Reference 1):

- Recommendation 2.1: Seismic
- Recommendation 2.1: Flooding
- Recommendation 2.3: Seismic
- Recommendation 2.3: Flooding
- Recommendation 9.3: Emergency Preparedness

Enclosure 3 of the NRC's 50.54(f) letter addressed providing information related to NTTF Recommendation 2.3: Seismic, as amended by the SRMs associated with SECY-11-0124 and SECY-11-0137. Enclosure 3 requested that licensees:

1. Develop a methodology and acceptance criteria for seismic walkdowns to be endorsed by the NRC staff,
2. Perform seismic walkdowns using the NRC-endorsed walkdown methodology,
3. Identify and address degraded, nonconforming, or unanalyzed conditions through a corrective action program, and
4. Verify the adequacy of licensee monitoring and maintenance procedures.

The nuclear power industry and the NRC agreed to cooperate in the development of guidelines and procedures to perform the seismic walkdowns. The resulting EPRI Report No. 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic* (EPRI 1025286) (Reference 2) provides guidance and procedures for performing the seismic walkdowns. The guidance addresses selection of personnel, selection of a sample of structures, systems, and components (SSCs) that represent a diversity of component types and ensures inclusion of components from critical systems and functions as described in the NRCs 50.54(f) letter, conduct of the walkdowns, evaluations against the plant seismic licensing basis, and reporting requirements. EPRI 1025286 also includes checklists to be used by the seismic walkdown engineers for seismic evaluations.

The guidance contained in EPRI 1025286 was developed to meet NRC's objectives, and in a letter dated May 31, 2012 (Reference 3), the NRC confirmed that the EPRI 1025286 guidance

directs licensees to perform walkdowns in a manner that will address Requested Information Items 1.a through 1.g in the 50.54(f) letter. The NRC staff also confirmed that Section 8, "Submittal Report," of the EPRI 1025286 guidance outlines the appropriate information to be submitted in response to Requested Information Items 2.a through 2.f. of Enclosure 3 of the 50.54(f) letter.

Dominion used the EPRI 1025286 guidance in developing and performing the seismic walkdowns at Millstone Power Station (MPS) Unit 2 in response to the NRC's 50.54(f) letter. In addition, Dominion followed the EPRI 1025286 Section 8 guidance for the development of this report.

## 1.0 Seismic Licensing Basis Summary

The seismic licensing basis for MPS Unit 2 is documented in the Final Safety Analysis Report (FSAR) (Reference 4). The FSAR describes the design basis earthquake (DBE) loads and their application to structures and components. The seismic design basis functions are in FSAR Chapter 5, *Structures.* FSAR Section 5.2.2.1.5 states that structural function is ensured to the DBE, which has a peak horizontal ground acceleration of 0.17g and vertical ground acceleration of 0.11g. Earthquake loads are predicated upon an operating basis earthquake (OBE) at the site having a horizontal ground acceleration of 0.09g and a vertical acceleration of 0.06g. FSAR Chapter 5 contains commitments to the General Design Criteria (GDC) in Appendix A of 10 CFR Part 50.

The DBE is defined as the maximum credible earthquake at the plant site that can reasonably be predicted from geologic and seismic evidence. The Nuclear Steam Supply System (NSSS) is designed to withstand the loads imposed by the maximum hypothetical accident and the maximum seismic disturbance without loss of functions required for safe reactor shutdown and emergency core cooling. Category I structures are designed to withstand appropriate seismic and other applicable loads without loss of function, which could result in a release of radioactivity to the site boundary in excess of the 10 CFR 100 guidelines.

The design philosophy for equipment component seismic design has been subject to significant changes since issuance of the original operating license. The seismic design basis was verified during the design phase by analyzing lumped-mass stick models for each of the buildings. Once built, IEEE 344-1971 provided direction for analysis and testing procedures which demonstrated that equipment could meet performance requirements in the event of a DBE. Subsequent to the original plant design, MPS Unit 2 implemented several plant systems upgrades with commitments to IEEE 344-1975 as the seismic design basis.

MPS Unit 2 seismic qualification was reviewed through two programs in the late 1980's and early 1990's. In 1987, the NRC issued Generic Letter (GL) 87-02 to provide guidance to licensees for Unresolved Safety Issue (USI) A-46 "Seismic Qualification of Equipment in Operating Plants." In 1991, the NRC issued GL 88-20, Supplement 4, requesting licensees to perform an Individual Plant Examination of External Events (IPEEE) for severe accident vulnerabilities in accordance with the guidelines provided in NUREG-1407. The MPS Unit 2 IPEEE and USI A-46 programs were integrated to perform seismic walkdowns of SSCs. Seismic review teams conducted walkdowns following the Seismic Qualification Utility Group (SQUG) Generic Implementation Procedure (GIP) and procedures detailed in EPRI NP-6041. A summary report of the results of the MPS Unit 2 IPEEE program was submitted to the NRC in 1995 (Reference 5) followed by the USI A-46 walkdown summary report in 1996 (Reference 6).

Following the USI A-46 program, MPS Unit 2 modified the FSAR to allow the use of SQUG GIP methodology as an alternative to the existing FSAR methods for the seismic design and verification of modified, new, and replacement equipment. Lastly, MPS Unit 2 modified the FSAR to allow the use of the EPRI STERI (Seismic Technical Evaluation of Replacement Items TR-104871) process to demonstrate that seismically rugged or insensitive replacement items exhibit seismic performance equivalent to original items.

Codes, standards, and methods related to the definition of the DBE and the design of structures and components for MPS Unit 2 can be found in FSAR Sections 2.6, 4.5.2, and Chapter 5.

## 2.0 Personnel Qualifications Summary

A summary of the personnel requirements, as outlined in EPRI 1025286 (Reference 2), for different seismic walkdown activities is provided as follows.

### 2.1 Equipment Selection

Personnel responsible for equipment selection should have knowledge of plant operations, plant documentation, and associated SSCs. They should have the capability to select a broad distribution of SSCs for the Seismic Walkdown Equipment List (SWEL). The Equipment Selection Personnel should also have knowledge of the IPEEE program.

Equipment Selection Personnel: James A. Petrosky, supported by licensed plant operators, and design and system engineering personnel.

### 2.2 Seismic Walkdowns

The seismic walkdown engineers (SWEs) should have a degree in mechanical or civil/structural engineering, or equivalent; and experience in seismic engineering as it applies to nuclear power plants. In addition, the SWEs must successfully complete one of the following two training courses: NTTF 2.3 Seismic Walkdown Training Course or SQUG Walkdown Training Course.

SWEs: William Price, Louis J. DiLuna Jr., James A. Petrosky, James McKinney, Stephen F. Superson, Sombat Pornprasert, and Thomas Steahr.

### 2.3 Licensing Basis Evaluations

All potentially adverse seismic conditions were documented and evaluated within the corrective action program (CAP); no licensing basis evaluations of potentially adverse seismic conditions were performed outside of the corrective action program defined by plant procedures.

### 2.4 IPEEE Review

Reviewers should have adequate engineering experience to review and understand the results of the IPEEE program.

IPEEE Reviewer: James A. Petrosky

### 2.5 Peer Review

The peer review team should consist of a minimum of two individuals, one of whom has seismic engineering experience as it applies to nuclear power plants.

Peer Reviewers: Marc Hotchkiss and Leo Nadeau.

Appendix A provides the qualifications of the personnel involved in performing the seismic walkdown activities at MPS Unit 2.

## 3.0 SSC Selection

### 3.1 Purpose

This section describes the process used to develop the seismic walkdown equipment list (SWEL) and documents the resulting SWEL and Area Walk-by list in response to NRC's 10 CFR 50.54(f) letter dated March 12, 2012 (Reference 1). The SWEL was developed using the guidance provided in EPRI 1025286 (Reference 2) and defines the scope of the seismic walkdowns.

### 3.2 Methodology

EPRI 1025286, Section 3, *Selection of SSCs*, describes the process used to identify items to be included in the SWEL. In general, the SWEL is comprised of two groups of items. The first is a sample of components from the seismic safe shutdown equipment list (SSEL). The other is a sample of components associated with the spent fuel pool. These lists are designated as SWEL 1 and SWEL 2, respectively. SWEL 1 and SWEL 2 are combined to form the SWEL, which defines the overall scope of equipment used as input to the seismic walkdowns. Additional information regarding the process used to develop the SWEL is provided below.

SWEL 1 Development

The base equipment list used as a starting point for development of the SWEL 1 list was the SSEL developed to address NRC Generic Letter 87-02, *Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Safety Issue (USI) A-46.*

The development of the SSEL included consideration of the following four safety functions:

- Reactor reactivity control
- Reactor coolant pressure control
- Reactor coolant inventory control
- Decay heat removal

Consistent with the guidance in EPRI 1025286, the SSEL was reviewed for items that support the following safety function:

- Containment function

SWEL 1 was developed by applying the following five sample selection attributes, defined in EPRI 1025286, to the SSEL. The required sample size for SWEL 1 was at between 90 and 120 items. The method of application for each attribute is summarized below:

1. A variety of types of systems. Sample items were selected to represent a broad range of frontline and support systems included on the SSEL.
2. Major new and replacement equipment. A review of the equipment on the SSEL was performed by experienced system engineers, design engineers, and plant operators to identify major new or replacement equipment installed within the last 15 years, consistent with EPRI 1025286 guidance. These items were identified for inclusion in the selection of the samples for SWEL 1.

3. A variety of types of equipment. At least one item from each of the classes of equipment listed in EPRI 1025286, Appendix B, *Classes of Equipment* was included on SWEL 1 to provide a sample selection of a variety of equipment types. Where no items were listed on the SSEL for a specific class of equipment, no items in that equipment class were selected for SWEL 1.
4. A variety of environments. Sample items were selected from different locations in the plant to include various environments (hot, cold, dry, wet) and inside and outside installations.
5. Equipment enhanced due to vulnerabilities identified during the IPEEE program. The USI A-46 and IPEEE program documentation was reviewed to determine equipment that had been modified or otherwise enhanced to reduce USI A-46 and IPEEE vulnerabilities. These items were identified for inclusion in the selection of the sample for SWEL 1.

For each item on SWEL 1, the applicable supported safety function(s) were determined as a confirmation that the five safety functions are adequately represented. In addition, risk significant items on the SWEL 1 list are identified as confirmation that risk insights are adequately considered in the development of SWEL 1.

SWEL 2 Development

SWEL 2 was developed based on a review of systems associated with the spent fuel pool (SFP) that are Seismic Category I or components whose failure could result in a rapid drain-down of the water level in the SFP to less than ten feet above the fuel.

For Seismic Category I systems associated with the SFP, a sample of components was identified using selection criteria similar to that described for SWEL 1.

Any components whose failure could result in rapid drain-down of the SFP were to be identified and evaluated for addition to SWEL 2. Identified components that met the criteria for inclusion in the seismic walkdowns were to be added to SWEL 2. If no component failures were identified that could result in rapid drain-down of the SFP, no components were added to SWEL 2, and the basis for this conclusion was described.

SWEL

The SWEL was developed by combining the items on SWEL 1 and SWEL 2.

The items on the SWEL were reviewed to determine the population of items with anchorage, and at least 50% of those items were selected for a configuration verification of the installed anchorage during the associated seismic walkdown.

The SWEL serves as the input to the seismic walkdowns conducted in accordance with EPRI 1025286 Section 4, *Seismic Walkdowns and Area Walk-Bys*. A walk-by area is defined as the room containing SWEL item(s), or in the case of a large open space, the area within a 35 foot radius around a SWEL item. Walk-by areas are defined to ensure that all items on the SWEL are included within a walk-by area.

### 3.3 Results

The methodology described in Section 3.2 was applied to develop the SWEL and the Area Walk-by list. The results of the implementation of this methodology are provided below.

The SWEL was developed by personnel meeting the qualifications for equipment selection personnel described in Section 2.1. Qualifications of personnel involved in the development of the SWEL are identified in Appendix A.

SWEL 1

The SSEL developed to address USI A-46 was the starting point (termed Base List 1 in EPRI 1025286) for development of the SWEL 1. The SSEL was submitted to the NRC in Reference 6.

The five sample selection attributes, described in Section 3.1, were then applied to the SSEL. The results are summarized for each attribute below:

1. A variety of types of systems. Sample items were selected to represent a broad range of frontline and support systems included on the SSEL. The number of selected items associated with each of the represented systems is provided in Appendix B.
2. Major new and replacement equipment. A review of the equipment on the SSEL was performed by experienced system engineers, design engineers, and plant operators to identify major new or replacement equipment installed within the last 15 years. The review was based on plant design change records, maintenance history, and reviewer experience. A sample of these items is included in SWEL 1.
3. A variety of types of equipment. At least one item from each of the classes of equipment listed in EPRI 1025286, Appendix B: *Classes of Equipment* was included in SWEL 1 to provide a sample selection of a variety of equipment types. The number of items from each of the equipment classes is identified in Appendix B. There were no items listed on the SSEL for equipment classes 12 and 13.
4. A variety of environments. Sample items were selected from different locations in the plant to include various environments (hot, cold, dry, wet). The installed location is identified for each of the SWEL 1 items, which provides an indication of the operating environment for the item.
5. Equipment enhanced due to vulnerabilities identified during the IPEEE program. The USI A-46 program documentation was reviewed to determine equipment that had been modified or otherwise enhanced to reduce seismic vulnerabilities. 17 of these items are included on the SWEL 1 list.

The resulting sample size of the equipment for the SWEL 1 list was 99 items. For each item on the list, the applicable supported safety function(s), listed below, were identified and indicated:

- Reactor reactivity control
- Reactor coolant pressure control
- Reactor coolant inventory control
- Decay heat removal
- Containment function

SWEL 2

SWEL 2 was developed based on a review of systems associated with the spent fuel pool (SFP) that are Seismic Category I or components whose failure could result in a rapid drain-down of the water in the SFP to less than ten feet above the top of the fuel. The review was supported by a licensed operator and knowledgeable system engineers.

The following Seismic Category I system associated with the SFP was identified:

- Spent Fuel Pool Cooling System

The system was reviewed using the walkdown item sample selection criteria similar to that used for SWEL 1, consistent with the guidance in EPRI 1025286. The following components were selected for inclusion on the MPS Unit 2 SWEL 2:

- M2P13A Spent Fuel Pool Cooling Pump A
- M2X20A Spent Fuel Pool Heat Exchanger A

Note: M2X20A Spent Fuel Pool Heat Exchanger A was also selected for SWEL 1 since this item was on the seismic SSEL (Base List 1).

Base List 2 and the items identified for inclusion on SWEL 2 are identified in Appendix B.

Rapid Drain-down

Systems interfacing with the SFP were reviewed to identify any components that could, upon failure, result in rapid drain-down of the SFP water level to below ten feet above the top of the fuel. As described in MPS Unit 2 FSAR Section 9.5 (Reference 4), the SFP has been designed to prevent cooling water inventory loss. All connections penetrate the wall near the normal operating level so the pool cannot be gravity drained by leaking pumps, valves, or other equipment. Additionally, the cooling water return piping, which extends to the pool bottom, is provided with anti-siphon features. The piping configuration and siphon breaks combine to preclude inadvertent draining of the SFP due to leaks in interfacing piping and equipment.

Therefore, there are no components that could, upon failure, result in rapid drain-down of the SFP water level to below ten feet above the top of the fuel and no components have been added to SWEL 2 for this criterion.

SWEL

The SWEL was developed by combining the items on SWEL 1 and SWEL 2. The SWEL is provided in Appendix B. All items on the list are from SWEL 1 except those items indicated by footnote as originating from SWEL 2.

The items on the SWEL were reviewed to identify those that included anchorage (i.e., items that were not line-mounted equipment, such as valves). 58 of the 67 items that included anchorage (86%) were selected for confirmation that the as-installed equipment anchorage is consistent with plant documentation of the anchorage design. The anchorage items selected for confirmation are indicated by a note on the SWEL.

In addition, risk significant items on the SWEL were identified. This information was reviewed by the PRA subject matter expert as confirmation that risk insights were adequately considered in the development of the SWEL. As a result, 68 of the 100 items on the SWEL were identified as being risk significant.

This list is the input to the seismic walkdowns conducted in accordance with EPRI 1025286, Section 4, *Seismic Walkdowns and Area Walk-Bys*. Walk-by areas were identified to include all of the items on the SWEL and are listed in Appendix B.

### 3.4 Inaccessible Items

In the process of selecting SSCs to be included on the SWEL, items that were accessible and have visible anchorage were selected wherever possible. However, there were 5 items included on the SWEL that were not sufficiently accessible to complete the walkdown inspection. These items are listed in Table 3-1 below and indicated by a footnote on the SWEL (Appendix B). The walkdowns for these items are planned to be completed by the end of the next scheduled refueling outage (Spring 2014).

**Table 3-1: Deferred Walkdown Items**

| ID Number | Description | Location | Inspection Completion Schedule |
|---|---|---|---|
| M2C58A* | A SERVICE WATER PUMP DISCH STRAINER CONTROL PANEL L1A | Intake Structure | Spring 2014 RFO |
| M2FLP-5* | EAST D.C. SWITCHGEAR ROOM HALON FIRE SYSTEM PANEL | East DC Switchgear Room | Spring 2014 RFO |
| M2F22B-PNL* | B CONTROL ROOM A/C COMPRESSOR PANEL | Control Room H&V Room | Spring 2014 RFO |
| M2F22A-PNL* | A CONTROL ROOM A/C COMPRESSOR PANEL | Control Room H&V Room | Spring 2014 RFO |
| M2C70A* | FIRE SHUTDOWN BOTTLE UP PANEL | East Switchgear Room | Spring 2014 RFO |

* Walkdown inspection complete with the exception of access to electrical cabinet internally mounted items.

## 4.0 Seismic Walkdowns and Area Walk-Bys

The seismic walkdowns and area walk-bys were performed consistent with the guidance provided in EPRI 1025286 (Reference 2).

A site-specific procedure was developed to implement the EPRI 1025286 seismic walkdown guidance for conducting and documenting the seismic walkdowns. A walkdown package was prepared for each component listed on the SWEL and for each area walk-by to be performed. Each package included a seismic walkdown checklist (SWC) or an area walk-by checklist (AWC), and the drawing(s) showing equipment location, plant documentation showing the anchorage details for each SWEL item requiring anchorage configuration verification, and documents from prior seismic walkdowns (e.g., Seismic Evaluation Work Sheets (SEWS) from USI A-46 walkdowns), as applicable. A hardcopy of the package was available for the SWEs during performance of the equipment walkdown or area walk-by.

The seismic walkdowns and area walk-bys were performed by walkdown teams, which consisted of at least two (2) qualified SWEs.

For the seismic walkdowns, the SWEs focused on the following adverse seismic conditions associated with each item of equipment as described in the EPRI 1025286 guidance:

- adverse anchorage conditions,
- adverse seismic spatial interactions, and
- other adverse seismic conditions.

The purpose of the area walk-bys was to identify potentially adverse seismic conditions associated with other SSCs located in the vicinity of the SWEL items. For the area walk-bys, SWEs focused on the following potentially adverse seismic conditions as described in the EPRI 1025286 guidance:

- anchorage conditions (if visible without opening equipment),
- significantly degraded equipment in the area,
- condition of cable/conduit raceways, including condition of supports or fill conditions, and HVAC ducting,
- potential adverse seismic interactions including those that could cause flooding, spray, or a fire in the area, and
- housekeeping items that could cause adverse seismic interactions.

During the walkdown or walk-by, the walkdown teams discussed conditions and/or any findings in the field, reached agreement on the results of the walkdown, and documented results of the seismic walkdowns and area walk-bys on the checklists. The results of the completed seismic walkdowns are documented on SWCs, which are included as Appendix C. The results of the completed area walk-bys are documented on AWCs, which are included as Appendix D.

For electrical cabinet internal inspection of motor control centers (MCC) that included several breaker cubicles (buckets), a sample of the breaker cubicles were inspected as described on the applicable SWC for the item. The use of a sample inspection for these items is consistent with the overall sampling approach applied to the NTTF 2.3 Seismic walkdowns, and provides reasonable assurance that visibly accessible internal components mountings are adequate. Inspecting a sample of MCC breaker cubicles adequately confirmed the condition of internal component mountings since the fastenings for components within MCCs are not subject to

significant environmentally-induced degradation based on their installed location and the maintenance on these items is controlled by station procedures.

The SWEL includes 100 items to be walked down and 36 area walk-bys were defined. Of these, 95 walkdowns and 36 area walk-bys have been completed. The remaining 5 walkdowns have been deferred because the component was not sufficiently accessible to complete the walkdown inspection and walkdown checklists are not included in this report for those items. The schedule for completion of these deferred seismic walkdowns is described in Section 3.4.

Table 4-1 lists potentially adverse seismic conditions identified during the completed seismic walkdowns and area walk-bys. The items listed in Table 4-1 were submitted as Condition Reports (CRs) in the station corrective action program (CAP). Table 4-1 summarizes the potentially adverse seismic conditions, describes how the condition has been addressed, and provides the current status of the resolution. A low threshold was used to identify and document potential adverse conditions. In addition to items listed in Table 4-1, non-seismic related potentially adverse conditions, such as various housekeeping and material condition items, were identified by the walkdown teams and addressed through the CAP.

No significant issues that challenged the MPS Unit 2 seismic licensing or design basis were identified as a result of the walkdowns completed to date. As indicated in Table 4-1, no planned or newly installed changes to the plant are required to resolve the items identified during the walkdowns.

**Table 4-1: Potentially Adverse Seismic Conditions**

| SWC / AWC | Equipment ID | CAP | Description | Resolution | Status |
|---|---|---|---|---|---|
| MP2-WD-SWEL-095 | RWST T-41 | CR484025 | RWST T-41 anchor bolts corroded. Several RWST tank T-41 anchor bolts were observed to have minor to moderate surface corrosion. Affected anchor bolts were observed on the West side (outside) and the south side of the tank in the metal enclosure. The tank anchor bolts appear to have been recently coated with a galvanic paint; however several bolts were not adequately coated. | The condition was previously identified and the reduction of bolt area was determined to be structurally not significant. The currently observed corrosion on the insufficiently coated bolts does not affect the structural integrity of the bolts. The surface corrosion on the uncoated portion of the bolts has not created a significant reduction of bolt area. Given the very small reduction in area of the five affected bolts and the large number of bolts for the tank anchorage (96), the anchorage is considered acceptable. Bolts with incomplete coating should be cleaned and coated to arrest any further degradation. | Work Order initiated to clean and recoat the corroded bolting. |
| MP2-WB-022 | MP2 SWP Motor Protection TK | CR484290 | The Service Water Pump Motor Protection Tank was found to not be restrained in accordance with Seismic Housekeeping procedure. | The frame enclosing the tank is restrained at one point, at the base. Although no safety-related equipment is in the fall zone, additional or alternate restraint is needed to prevent toppling in a seismic event. | The Service Water Pump Motor Protection Tank has been properly secured in accordance with the Seismic Housekeeping Procedure - CLOSED. |

**Table 4-1: Potentially Adverse Seismic Conditions**

| SWC / AWC | Equipment ID | CAP | Description | Resolution | Status |
|---|---|---|---|---|---|
| MP2-WB-028 | Valve 2-FIRE-476 | CR484379 | Identified a vertical run of fire protection piping that is laterally unsupported near valve 2-FIRE-476 and is in close proximity to the column E-19 flange. There is a potential that without lateral restraint the FP piping could sway, impacting the column flange and causing a water spray condition. | The vital chilled water pumps nearby are resistant to spray and would not be rendered inoperable if they were to be sprayed by this hypothetical fire suppression leak. In addition, the column that the suppression system may impact is fire coated. This coating would provide some cushion to mitigate any impact | Evaluation assignment to Design Engineering to address vertical run of fire protection piping to hose station # 205 support issue. |
| MP2-WD-SWEL-041 | M22-SW-3.2A & B | CR484417 | The overhead panels of the security fence enclosure for TBCCW Stop Valves M22-SW-3.2A & B potentially insufficiently supported. | This installation was previously evaluated and determined to be acceptable. | Corrective action initiated to evaluate the as-installed condition for potential enhancement of the support configuration. |
| MP2-WD-SWEL-053 | M2F52 | CR484940 | East 480V Room Supply Fan (M2F52) support configuration does not match the drawing of record. The USI A46 Screening Evaluation Work sheet (SEWS) number F52, Rev. 0, dated 2/14/92, is consistent with the actual support configuration. | The existing support is acceptable based on the SEWS and visual inspection. There are no operability concerns. | Design Engineering corrective action initiated to evaluate the as-built support configuration for documentation update. |

## 5.0 Licensing Basis Evaluation

The station CAP was used to document the evaluation of potentially adverse seismic conditions identified in Section 4.0.

### 5.1 Summary of Evaluations

There were no conditions identified during the seismic walkdowns completed to date that challenge the validity of the current plant seismic licensing or design basis.

### 5.2 Plant Modifications

There are no planned or newly installed changes to the plant as a result of implementation of the seismic walkdowns and area walk-bys completed to date.

As identified in Table 4-1, actions planned as a result of seismic walkdown findings include documentation updates, maintenance items, and engineering evaluations to document as-found conditions.

## 6.0 IPEEE Vulnerabilities

On June 28, 1991, the NRC issued Generic Letter (GL) 88-20, Supplement 4 (with NUREG-1407, *Procedural and Submittal Guidance*) requesting each licensee to perform an individual plant examination of external events (IPEEE) to examine the plant-specific relationship of external events to severe accidents, identify any severe accident vulnerabilities, and to report the results to the Commission together with any licensee-determined improvements and corrective actions. The results of the IPEEE Program for MPS Unit 2 were submitted in the Millstone Unit 2 IPEEE Summary Report dated December 1995 (Reference 5), which indicated that MPS Unit 2 had a relatively low risk from external events. Table 7.1-1, Opportunities for Safety Enhancements, of the MPS Unit 2 IPEEE Summary Report provides the equipment outliers identified during walkdown evaluations for the IPEEE review. Table 7.1-1 indicated the items that remained unresolved at the time of the report submittal.

An updated status of the items in the IPEEE Report Table 7.1-1 was provided in a letter dated December 31, 1998 (Reference 7). Table 6-1 provides the current status of the seismic-related items from IPEEE Report Table 7.1-1 that were indicated as OPEN in the update provided in Reference 7.

The MPS Unit 2 configuration management program has maintained the equipment modifications and programmatic changes implemented to eliminate or reduce the seismic vulnerabilities identified during the IPEEE program.

## Table 6-1 Status of IPEEE Outliers

| Item # | Open / Closed | Outlier Description | Status |
|---|---|---|---|
| 8 | Closed | The enclosure expansion anchorage was found to be limiting for RSST Feeder Breaker's 22S3-2-2 enclosure.<br><br>References:<br><br>MP2 IPEEE, Section 3.2.4.13 and Table 3.2-3 | Closed.<br>As a result of a plant modification related to the RSST, breaker 22S3-2-2 enclosure is no longer in service. Therefore, the enclosure anchorage is no longer considered an IPEEE outlier. |
| 9 | Closed | Tank Anchorage was found to be limiting for the Chilled Water Surge Tank, T98.<br><br>Reference:<br><br>MP2 IPEEE, Table 3.2-3 | See letter dated August 13, 2004 (Reference 8) for closure information. |
| 10 | Closed | The block wall adjacent to INV-5 is not considered "Safety Related" and was assumed to be unreinforced.<br><br>References:<br><br>MP2 IPEEE, Section 3.2.4.15 and Table 3.2-3 | Closed based on the determination that component INV-5 is not risk significant. |
| 12 | Closed | The seismic capacity of Millstone Point Unit No. 1 diesel fire pump fuel tank may not be adequate. MP2 relies on MP1 fire suppression system for fire protection.<br><br>Fires generated as a result of earthquakes are common. Fire pumps driven using offsite power cannot be relied upon since most earthquakes will result in loss of offsite power.<br><br>Reference:<br><br>MP2 IPEEE, Section 4.11.3.3 | See letter dated August 13, 2004 (Reference 8) for closure information. |
| 13 | Closed | A long run of fire water header system piping along the Turbine Building's north wall appears to have very low seismic capacity.<br><br>Reference:<br><br>MP2 IPEEE, Section 4.11.3.3 | See letter dated August 13, 2004 (Reference 8) for closure information. |
| 14 | Closed | The block wall construction of the fire pump house (shared by MP1 and MP2) may not provide adequate seismic ruggedness.<br><br>Reference:<br><br>MP2 IPEEE, Section 4.11.3.3 | See letter dated August 13, 2004 (Reference 8) for closure information. |

## 7.0 Peer Review Summary

The Peer Review Team function and required activities are delineated in EPRI 1025286, Section 6, *Peer Review*. The Peer Review Team provided an overview of the following seismic walkdown activities, as defined in EPRI 1025286:

1. Selection of the SSCs included on the SWEL
2. Checklists prepared for the seismic walkdowns and area walk-bys
3. Licensing basis evaluations
4. Decisions for entering the potentially adverse seismic conditions into the CAP process
5. Submittal report

Peer Review activities were performed during the preparation and performance of the seismic walkdowns. The Peer Review Team members were:

- Marc Hotchkiss, Dominion, Peer Review Team Lead
- Leo Nadeau, Bechtel Power

A summary of the results of the Peer Review is provided below:

1. Selection of SSCs

   The Peer Review Team performed a comprehensive review of the SWEL. The SWEL was compared to the requirements of EPRI 1025286, Section 3, *Selection of SSC* utilizing Appendix F, *Peer Review Checklist* and was found to appropriately apply the EPRI 1025286 guidance including:
   - Selection of SWEL 1 SSCs
   - Use of sample selection attributes
   - Adequate representation of the five safety functions
   - Consideration of risk insights
   - Selection of spent fuel pool related items

   All peer review comments were minor and were adequately resolved.

2. Sample of Seismic Walkdown Checklist (SWC) and Area Walkdown Checklist (AWC)

   The Peer Review Team reviewed a sample of walkdown results and concluded that the SWCs and AWCs were completed in accordance with the EPRI 1025286 guidance.

   a. Packages – The Peer Review Team reviewed a sample of the seismic walkdown documentation packages prepared before walkdowns were performed. These walkdown packages were reviewed to ensure the seismic walkdown checklist and related documentation (e.g., Screening Evaluation Work Sheet (SEWS), anchorage details) were included. The packages were determined to be adequate to support the walkdowns.
   b. SWC/AWC – There are 100 SWC documentation packages. 47 SWCs were peer reviewed representing 47% of the total SWCs. This exceeds the EPRI 1025286 requirement for a 10 – 25 % sample. 16 AWCs from a total of 36 were peer reviewed

representing 44% of the total. Overall, the SWC and AWC were determined to be appropriately detailed and complete.

c. Seismic Walkdown Engineers (SWEs) were interviewed by the Peer Review Team Lead to verify that they understood and followed the Guidance in EPRI 1025286, Section 4, *Seismic Walkdowns and Area Walk-Bys*. Results of the interviews indicated that each team understood and followed the EPRI guidance.

All peer review comments were minor and were adequately resolved.

3. Review of Licensing Basis Evaluations

All potentially adverse seismic conditions identified during the walkdowns were entered into the CAP consistent with plant procedure. There were no Licensing Basis Evaluations, as defined in EPRI 1025286, performed that were in addition to the CAP reviews.

4. Review of Conditions Entered into CAP

The threshold level at which field-identified conditions were entered in CAP was considered to be appropriate to ensure that potential licensing basis issues were documented and reviewed by Engineering and the Operations Shift Manager for operability concerns. Appropriate functional organizations (e.g., Operations, Maintenance, and Site Engineering) were routinely consulted and engaged in the evaluation of potentially adverse seismic conditions.

5. Review of Submittal Report

A review of the submittal report was performed by members of the Peer Review Team and it was determined that the objectives and requirements of the 50.54(f) Letter were met.

## 8.0 References


1. NRC Letter, *Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3 and 9.3 of the Near-Term Task Force Review of the Insights from the Fukushima Daiichi Accident*, dated March 12, 2012 (ML12056A046).
2. EPRI Report 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, June 2012.
3. NRC letter, *Endorsement of Electric Power Research Institute (EPRI) Draft Report 1025286, "Seismic Walkdown Guidance,"* dated May 31, 2012 (ML12145A529).
4. Millstone Power Station Unit 2 Final Safety Analysis Report, Revision 28.1.
5. Letter B15481, D. B. Miller Jr. to NRC Document Control Desk, *Generic Letter 88-20, Supplements 4 & 5, Individual Plant Examination of External Events - Summary Report*, dated December 29, 1995.
6. Letter B15469, E. A. DeBarba to NRC Document Control Desk, *USI A-46 Walkdown Summary Report and Proposed Expansion of Licensing Basis for Verification of Equipment Seismic Adequacy*, dated January 22, 1996.
7. Letter B17558, D. B. Amerine to NRC Document Control Desk, *Millstone Unit No. 2 Response to Request for Additional Information Relating to the Individual Plant Examination of External Events (IPEEE)*, dated December 31, 1998.
8. Letter 04-398, L. N. Hartz to NRC Document Control Desk, *Millstone Units 2 and 3 Response to Request for Additional Information License Renewal Applications*, dated August 13, 2004.

# Appendix A

# Personnel Qualifications

**Louis J. DiLuna Jr.**

Summary of Background and Experience:

- Completed 5-day SQUG walkdown training course
- BS Civil Engineering
- MS Structural Engineering
- PE, Massachusetts and New York
- 36 years of experience in seismic evaluation of components and supports

**Marc Hotchkiss**

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical Engineering
- PE, Virginia
- 29 years of commercial nuclear power plant experience including: plant and system engineering; plant modifications; project management; nuclear control room shift operations (SRO); shift technical advisor; and new plant licensing; 3 years of nuclear plant seismic engineering-related experience

**James McKinney**

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical/Structural Engineering
- 36 years of nuclear seismic experience including: preparation and implementation of civil/structural plant modifications; civil/structural calculations; generating pipe stress and support calculations

**Leo Nadeau**

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical Engineering, MS Mechanical Engineering
- 25 years of experience in project management and engineering activities related to nuclear power plant projects including: engineering and construction experience with refueling outages in operating facilities; performing new construction and refurbishment of nuclear power plants; 15 years of seismic engineering experience

**James A. Petrosky**

Summary of Background and Experience:

- Completed 5-day SQUG walkdown training course (2001); Seismic Capability Engineer (2001)
- BS Civil Engineering
- MS Mechanical Engineering
- PE, Connecticut and Rhode Island
- 25 years of experience in nuclear seismic engineering including: preparation and implementation of civil/structural plant modifications; civil/structural calculations; equipment qualification using SQUG methodology

**Sombat Pornprasert**

Summary of Background and Experience:

- Completed 5-day SQUG training course (1994); Completed EPRI Add-On Seismic IPE training course (1994); Completed SQUG NARE training course (1994);
- BS Mechanical Engineering Technology
- 10 years of construction experience in nuclear power plant decommissioning and over 18 years of engineering and design experience within the power generation industry including: review of seismic documentation of components to ensure compliance with plant FSAR, specifications, and industry standards; seismic documentation package preparation for valves, pumps, heat exchangers, and electrical panels; equipment qualification using the SQUG GIP methodology and seismic margin analysis
- SQUG representative for Northeast Utilities (1993-1995)

**William Price**

Summary of Background and Experience:

- Completed 5-day SQUG walkdown training course (2012)
- AS Architectural Engineering
- 31 years of Civil/Structural Engineering/Design Engineering experience at Millstone Nuclear Power station including: 20 years of experience performing design improvements for Millstone Units 1, 2, and 3; 10 years of experience as Engineering Design Supervisor for Civil/Mechanical Engineering Design at Millstone Nuclear Power Station

**Thomas Steahr**

Summary of Background and Experience:

- Completed 5-day SQUG training (2000); Seismic Capability Engineer (2001)
- BS Mechanical Engineering
- 10 years of nuclear seismic engineering experience including: preparation and implementation of civil/structural plant modifications; civil/structural calculations

**Stephen F. Superson**

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Civil Engineering
- 30 years of experience in Structural Engineering including: seismic design and analysis of safety-related components, building steel, and structures; coordination and implementation of nuclear plant modifications; lead engineering direction

# Appendix B

## Seismic Walkdown Equipment List (SWEL) and Area Walk-by List

1. SWEL (Combined SWEL 1 and SWEL 2)
2. Base List 2/SWEL 2
3. Summary Tables
4. Area Walk-by List

## 1. SWEL (Combined SWEL 1 and SWEL 2)

| Seismic Walkdown Equipment List (SWEL) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item # | Class | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | New or Replaced | Safety Functions | Enhanced for IPEEE, A-46 | Area Walkby | Notes |
| 1 | 0 | M22-HV-139A | F112A (BATTERY ROOMS) ROOF EXHAUSTER BACKDRAFT DAMPER | AXV | YD | 14-6 | N | | 1,2,3,4,5 | | 035 | |
| 2 | 0 | M22-HV-204B | "B" CONTROL ROOM A/C UNIT FAN DISCHARGE STOP FIRE DAMPER | ACR | AB | 36-6 | N | | 1,2,3,4,5 | | 013 | |
| 3 | 0 | M22-HV-255B | "B" DIESEL GENERATOR ROOM EXHAUST DAMPER | DGV | AB | 14-6 | Y | | 1,2,3,4,5 | | 001 | |
| 4 | 0 | M22-HV-261 | VITAL SWITCHGEAR VENTILATION SYSTEM RECIRCULATION FIRE DAMPER | ESV | TB | 45 | N | | 1,2,3,4,5 | | 026 | |
| 5 | 0 | M22-HV-265 | VITAL SWITCHGEAR VENTILATION SYSTEM DISCHARGE FIRE DAMPER | ESV | TB | 36-6 | N | | 1,2,3,4,5 | | 030 | |
| 6 | 0 | M22-HV-333 | F52 DISCHARGE TO EAST 480V SWGR RM FIRE DAMPER | AXV | TB | 36-6 | N | | 1,2,3,4,5 | | 031 | |
| 7 | 0 | M2T49D | "B" DIESEL ENGINE STARTING AIR TANK "D" | DGN | AB | 14-6 | Y | | 1,2,3,4,5 | | 001 | 2,3 |
| 8 | 0 | M2T98 | CHILLED WATER SURGE TANK | CWD | TB | 54-6 | Y | | 1,2,3,4,5 | | 032 | 2,3 |
| 9 | 1 | M222E | 480V BUS 22E (B05) MCC Section | ES0 | AB | 36-6 | Y | | 1,2,3,4,5 | Y | 015 | 2,3 |
| 10 | 1 | M2B51 | 480V MOTOR CONTROL CENTER BUS B51 | MCC | AB | 14-6 | Y | | 1,2,3,4,5 | | 009 | 2,3 |
| 11 | 1 | M2B62 | 480V MOTOR CONTROL CENTER BUS B62 | MCC | AB | 38-6 | Y | | 1,2,3,4,5 | | 017 | 2,3 |
| 12 | 2 | M2201A | DC BATTERY BUS 201A | EDC | AB | 14-6 | Y | | 1,2,3,4,5 | | 007 | 2 |
| 13 | 2 | M222E | 480V BUS 22E (B05) | ES0 | AB | 36-6 | Y | | 1,2,3,4,5 | Y | 015 | 2,3 |
| 14 | 3 | M224C | 4.16KV EMERGENCY BUS 24C | ES4 | TB | 31-6 | Y | | 1,2,3,4,5 | | 029 | 2 |
| 15 | 4 | M2UAC3 | REGULATING TRANSFORMER UAC3 | ENV | AB | 14-6 | N | Y | 1,2,3,4,5 | | 007 | 2,3 |
| 16 | 1 | M2B61 | 480V MOTOR CONTROL CENTER BUS B61 | MCC | AB | 14-6 | Y | | 1,2,3,4,5 | Y | 009 | 2,3 |

| Seismic Walkdown Equipment List (SWEL) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item # | Class | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | New or Replaced | Safety Functions | Enhanced for IPEEE, A-46 | Area Walkby | Notes |
| 17 | 5 | M2P11A | "A" RBCCW PUMP ASSEMBLY (MTR HTR BKR LH51-5) | CCR | AB | -25-6 | Y | | 4 | | 010 | 2,3 |
| 18 | 5 | M2P13A | A SPENT FUEL POOL COOLING PUMP ASSEMBLY | SFC | AB | -5 | N | | 4 | | 004 | 2,3,4 |
| 19 | 5 | M2P18A | "A" CHARGING PUMP ASSEMBLY (MTR HTR BKR LH51-8) | CVC | AB | -25-6 | Y | Partial | 1,2,3 | | 011 | 2,3 |
| 20 | 5 | M2P19A | "A" BORIC ACID PUMP ASSEMBLY | BAS | AB | -5 | Y | | 1 | | 002 | 2,3 |
| 21 | 5 | M2P4 | TERRY TURBINE AUXILIARY FEEDWATER PUMP ASSEMBLY | AFW | TB | 1-6 | Y | | 2,3,4 | | 027 | 2,3 |
| 22 | 5 | M2P41A | "A" HIGH PRESSURE SAFETY INJECTION PUMP ASSY (MTR HTR BKR LH51-2) | HPI | AB | -5 | Y | | 1,2,3,4 | | 018 | 2,3 |
| 23 | 5 | M2P9A | "A" AUXILIARY FEEDWATER PUMP ASSEMBLY (MTR HTR BKR LH51-6) | AFW | TB | 1-6 | Y | | 2,3,4 | | 027 | 2,3 |
| 24 | 6 | M2P122A | "A" DC SWITCHGEAR ROOM CHILLER (X169A) CHILL WATER PUMP ASSEMBLY | ESV | TB | 14-6 | Y | | 1,2,3,4,5 | | 028 | 2 |
| 25 | 6 | M2P42A | 'A' LOW PRESSURE SAFETY INJECTION PUMP ASSY (MTR HTR BKR LH51-3) | LPI | AB | -45-6 | Y | | 1,2,3,4 | | 018 | 2,3 |
| 26 | 6 | M2P5A | "A" SERVICE WATER PUMP ASSEMBLY (MTR HTR BKR LH52-7) | SWS | CW | 14-6 | Y | | 1,2,3,4,5 | | 022 | 2,3 |
| 27 | 7 | M22-CH-210X | DILUTION CONTROL VALVE ASSEMBLY | CVC | AB | -5 | N | | 1,2,3 | | 002 | |
| 28 | 7 | M22-CH-512 | VOLUME CONTROL TANK MAKEUP CONTROL VALVE ASSEMBLY | BAS | AB | -5 | N | | 1,2,3 | | 002 | |
| 29 | 7 | M22-CHW-11 | CHILLED WATER SUPPLY HEADER CROSS TIE CONTROL VALVE ASSEMBLY | CWD | TB | 14-6 | Y | | 1,2,3,4,5 | Y | 028 | |
| 30 | 7 | M22-CHW-13 | CHILL WATER RETURN HEADER CROSS TIE CONTROL VALVE ASSEMBLY | CWD | TB | 14-6 | Y | | 1,2,3,4,5 | | 028 | |

| Seismic Walkdown Equipment List (SWEL) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item # | Class | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | New or Replaced | Safety Functions | Enhanced for IPEEE, A-46 | Area Walkby | Notes |
| 31 | 7 | M22-FW-43A | #1 STEAM GENERATOR AUX FEEDWATER REGULATING VALVE ASSEMBLY | FWS | TB | 14-6 | Y | | 2,3,4 | | 028 | |
| 32 | 7 | M22-FW-5B | #2 S/G MAIN FEED SUPPLY AIR-ASSIST CHECK VALVE ASSEMBLY PEN #16 | FWS | EB | 38-6 | Y | | 4,5 | | 025 | |
| 33 | 7 | M22-MS-190B | #2 STEAM GENERATOR ATMOSPHERIC DUMP CONTROL VALVE ASSEMBLY PEN #12 | STG | EB | 38-6 | Y | | 4 | | 025 | |
| 34 | 7 | M22-MS-239 | #2 STEAM GENERATOR SAFETY RELIEF VALVE | STG | EB | 60 | Y | | 4 | | 023 | |
| 35 | 7 | M22-MS-64B | #2 S/G MAIN STEAM ISOLATION VALVE PEN #20 | STG | EB | 38-6 | Y | | 4,5 | | 025 | |
| 36 | 7 | M22-RB-13.1A | "A" SHUTDOWN COOLING HEAT EXCHANGER OUTLET STOP VALVE ASSEMBLY | CCR | AB | -45-6 | Y | | 4 | | 018 | |
| 37 | 7 | M22-RB-4.1B | RBCCW HEAT EXCHANGER 18A HEADER "B" OUTLET VALVE ASSEMBLY | CCR | AB | -25-6 | Y | | 1,2,3,4,5 | | 010 | |
| 38 | 7 | M22-RC-402 | PRESSURIZER POWER OPERATED RELIEF VALVE ASSEMBLY | PZR | CE | 38-6 | Y | | 2,3,4 | | 021 | |
| 39 | 7 | M22-SI-306 | SHUTDOWN COOLING FLOW CONTROL VALVE ASSEMBLY | SCC | AB | -45-6 | Y | | 4 | | 018 | |
| 40 | 7 | M22-SW-231B | B' D/G HEAT EXCHANGER SERVICE WATER BYPASS VALVE ASSEMBLY | SWS | AB | 14-6 | Y | | 1,2,3,4,5 | | 001 | |
| 41 | 7 | M22-SW-3.2A | "B" SERVICE WATER HEADER SUPPLY TO TBCCW STOP VALVE | SWS | TB | 14-6 | Y | | 1,2,3,4,5 | | 028 | |
| 42 | 7 | M22-SW-90A | "A" SERVICE WATER PUMP DISCHARGE STRAINER FLUSH VALVE ASSEMBLY | SWS | CW | 14-6 | Y | | 1,2,3,4,5 | | 022 | |
| 43 | 7 | M22-SW-97A | "B" SERVICE WATER PUMP DISCHARGE TO "A" SERVCE WATER HEADER | SWS | CW | 14-6 | Y | | 1,2,3,4,5 | | 022 | |
| 44 | 8 | M22-CH-501 | VOLUME CONTROL TANK TO CHARGING SYSTEM OUTLET VALVE ASSEMBLY | CVC | AB | -25-6 | N | | 1,2,3 | | 012 | |

| Seismic Walkdown Equipment List (SWEL) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item # | Class | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | New or Replaced | Safety Functions | Enhanced for IPEEE, A-46 | Area Walkby | Notes |
| 45 | 8 | M22-CH-509 | "A" BORIC ACID STORAGE TANK OUTLET GRAVITY FEED VALVE | CVC | AB | -5 | Y | | 1 | | 002 | |
| 46 | 8 | M22-CH-514 | BORIC ACID PUMPS "A"/"B" TO CHARGING PUMP SUCTION VALVE ASSEMBLY | CVC | AB | -5 | Y | | 1 | | 002 | |
| 47 | 8 | 2-MS-464 | TERRY TURBINE AUXILIARY FEEDWATER PUMP STEAM SUPPLY | STG | YD | 40914 | Y | | 2,3,4 | | 027 | |
| 48 | 8 | M22-HV-215A | "b" REFRIGERATION CYCLE CLG COIL (X42A) INLET VALVE ASSEMBLY | ACR | AB | 36-6 | N | | 1,2,3,4,5 | | 013 | |
| 49 | 8 | M22-SI-614 | #1 SAFETY INJECTION TANK OUTLET VALVE ASSEMBLY | LPI | CE | 14-6 | Y | | 1,2,3,4 | | 020 | |
| 50 | 8 | M22-SI-656 | "A" HPSI HEADER STOP VALVE ASSEMBLY | HPI | AB | -45-6 | Y | | 1,2,3,4,5 | | 018 | |
| 51 | 9 | M2F112B | "B" DC BATTERY ROOM EXHAUST FAN ASSEMBLY | AXV | YD | 14-6 | N | | 1,2,3,4,5 | | 035 | |
| 52 | 9 | M2F38B | "B" DIESEL GENERATOR ROOM VENT FAN ASSEMBLY | DGV | AB | 14-6 | Y | | 1,2,3,4,5 | Y | 001 | |
| 53 | 9 | M2F52 | EAST 480 VOLT ROOM SUPPLY FAN ASSEMBLY (MTR HTR BKR LH61-6) | ESV | TB | 56-6 | N | | 1,2,3,4,5 | Y | 033 | 2 |
| 54 | 10 | M2F133 | UPPER 4160 VOLT SWITCHGEAR ROOM COOLING FAN ASSEMBLY | TBV | TB | 56-6 | N | | 1,2,3,4,5 | | 030 | 2,3 |
| 55 | 10 | M2F14C | "C" CTMT AIR RECIRC COOLING UNIT FAN ASSY | CAR | CE | -3 | Y | | 5 | | 36 | 2 |
| 56 | 10 | M2F21B | "B" CONTROL ROOM A/C SYSTEM UNIT FAN ASSEMBLY | ACR | AB | 36-6 | N | | 1,2,3,4,5 | | 013 | 2,3 |
| 57 | 10 | M2F54B | "B" DC ROOM AIR CONDITIONING UNIT FAN ASSEMBLY | DCV | AB | 14-6 | Y | | 1,2,3,4,5 | | 008 | 2,3 |
| 58 | 10 | M2X181A | "A" WEST 480V LOAD CENTER ROOM COOLING COIL | ESV | AB | 36-6 | Y | | 1,2,3,4,5 | | 015 | 2,3 |
| 59 | 11 | M2F1A | "A" WASTE GAS COMPRESSOR ASSEMBLY | GRW | AB | -25-6 | N | | 3 | Y | 012 | 2,3 |
| 60 | 11 | M2F22B | "B" CONTROL ROOM AIR CONDITIONING COMPRESSOR ASSEMBLY | ACR | AB | 36-6 | N | | 1,2,3,4,5 | | 013 | 2 |

| Seismic Walkdown Equipment List (SWEL) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item # | Class | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | New or Replaced | Safety Functions | Enhanced for IPEEE, A-46 | Area Walkby | Notes |
| 61 | 14 | M2C58A | A SERVICE WATER PUMP DISCH STRAINER CONTROL PANEL L1A | SWS | CW | 14-6 | Y | | 4 | | 022 | 1,2,3 |
| 62 | 14 | M2D11 | 125 VOLT DC DISTRIBUTION PANEL 201A-1 (FAC.1) | EDC | AB | 14-6 | N | | 1,2,3,4,5 | Y | 007 | 2,3 |
| 63 | 14 | M2D12 | 125 VOLT DC DISTRIBUTION PANEL 201A-2 (FAC.1) | EDC | AB | 14-6 | N | | 1,2,3,4,5 | Y | 007 | 2,3 |
| 64 | 14 | M2DV10 | 125 VOLT DISTRIBUTION PANEL | EDC | AB | 14-6 | Y | | 1,2,3,4,5 | | 007 | 2,3 |
| 65 | 14 | M2FLP-5 | EAST D.C. SWITCHGEAR ROOM HALON FIRE SYSTEM PANEL | FIR | AB | 14-6 | N | | 1,2,3,4,5 | | 007 | 1,2,3 |
| 66 | 14 | M2VR11 | DISTRIBUTION PANEL | EVI | AB | 14-6 | N | Partial | 1,2,3,4,5 | Y | 007 | 2,3 |
| 67 | 15 | M2DB1-201A | "A" VOLT DC STATION BATTERY | EDC | AB | 14-6 | Y | | 1,2,3,4,5 | Y | 006 | 2,3 |
| 68 | 16 | M2DC1 | "A" BATTERY CHARGER TO BATTERY BUS 201A | EDC | AB | 14-6 | Y | | 1,2,3,4,5 | | 007 | 2,3 |
| 69 | 16 | M2INV1 | INVERTER #1 | EVI | AB | 14-6 | Y | | 1,2,3,4,5 | | 006 | 2,3 |
| 70 | 17 | M2H7B | "B" EMERGENCY DIESEL GENERATOR ASSEMBLY | DGN | AB | 14-6 | Y | | 1,2,3,4,5 | | 001 | 2,3 |
| 71 | 18 | M2C172 | INSTRUMENT RACK | MSC | CE | 14-6 | Y | | 1,2,3,4,5 | | 020 | 2,3 |
| 72 | 18 | M2LT-3001 | RWST LEVEL ESAS CHANNEL A | RSS | YD | 14-6 | Y | | 1,2,3,4,5 | | 034 | 2,3 |
| 73 | 18 | M2LT-3003 | RWST LEVEL CHANNEL C | RSS | YD | 14-6 | Y | | 1,2,3,4,5 | | 034 | 2,3 |
| 74 | 18 | M2LT-5282 | CONDENSATE STORAGE TANK LEVEL XMTR | CST | YD | 14-6 | N | | 2,3,4 | | 035 | 2,3 |
| 75 | 18 | M2PDC-6475 | SERVICE WATER PUMP P5A PRESS DIFF SWITCH | SWS | CW | 14-6 | Y | | 4 | | 022 | 2,3 |
| 76 | 18 | M2PDC-6488 | SERVICE WATER PUMP P5C FILTER PRESSURE DIFF SWITCH | SWS | CW | 14-6 | Y | | 4 | | 022 | 2,3 |
| 77 | 18 | M2PT-8113 | CTMT PRESSURE XMTR, CHANNEL "A" RPS/ESAS | CAR | AB | -5 | Y | | 5 | | 003 | 2,3 |
| 78 | 18 | M2PT-8115 | CTMT PRESSURE XMTR, CHANNEL "C" RPS/ESAS | CAR | AB | -5 | Y | | 5 | | 005 | 2,3 |
| 79 | 18 | M2C126 | RACK C126 FOR BORIC ACID TANK LEVEL | MSC | AB | -5 | N | | 1 | | 002 | 2,3 |

| Seismic Walkdown Equipment List (SWEL) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item # | Class | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | New or Replaced | Safety Functions | Enhanced for IPEEE, A-46 | Area Walkby | Notes |
| 80 | 19 | M2TE-351Y | SHUTDOWN COOLING SAFETY INJECTION PUMP DISCHARGE TEMP RTD | SCC | AB | -25-6 | N | | 4 | | 011 | |
| 81 | 20 | M2ACT-5 | ESAS ACTUATION CABINET '5' (RC02B) | ESA | CB | 36-6 | Y | | 1,2,3,4,5 | Y | 019 | 2,3 |
| 82 | 20 | M2C08R | C08R MAIN CONTROL BOARD | MCB | CB | 36-6 | N | | 1,2,3,4,5 | | 019 | 2 |
| 83 | 20 | M2RC02D4 | ESAS ACTUATION CABINET | ESA | CB | 36-6 | Y | | 1,2,3,4,5 | | 019 | 2,3 |
| 84 | 20 | M2C01X | ESF STATUS LIGHT PANEL | ANN | CB | 36-6 | N | | 1,2,3,4,5 | Y | 019 | 2,3 |
| 85 | 20 | M2F22B-PNL | B CONTROL ROOM A/C COMPRESSOR PANEL | ACR | AB | 36-6 | N | | 1,2,3,4,5 | | 013 | 1,2,3 |
| 86 | 20 | M2C10 | FIRE SHUTDOWN PANEL (SPEC 200) | NSS | TB | 54-6 | N | | 1,2,3,4,5 | | 030 | 2,3 |
| 87 | 20 | M2C25A | CONTROL ROOM VENT CONTROL CABINETS | ACR | CB | 36-6 | N | | 1,2,3,4,5 | Y | 019 | 2 |
| 88 | 20 | M2F22A-PNL | A CONTROL ROOM A/C COMPRESSOR PANEL | ACR | AB | 36-6 | N | Partial | 1,2,3,4,5 | | 013 | 1,2,3 |
| 89 | 20 | M2C70A | FIRE SHUTDOWN BOTTLE UP PANEL | NSS | AB | 36-6 | N | | 1,2,3,4,5 | | 014 | 1,2,3 |
| 90 | 20 | M2C80 | VITAL SWITCHGEAR VENTILATION CONTROL CABINET | ESV | CB | 36-6 | Y | | 1,2,3,4,5 | Y | 019 | 2,3 |
| 91 | 20 | M2RC30A-1 | SPEC-200 CABINET RC-30A-1 | NSS | CB | 36-6 | N | | 1,2,3,4,5 | | 019 | 2,3 |
| 92 | 20 | M2T041 | DIESEL GENERATOR H7B RELAY AND TERMINAL BOX | DGN | AB | 14-6 | Y | | 1,2,3,4,5 | | 001 | 2 |
| 93 | 21 | M2T3 | RBCCW SURGE TANK | CCR | EB | 71 | Y | | 4 | Y | 024 | 2,3 |
| 94 | 21 | M2T40 | CONDENSATE STORAGE TANK | CST | YD | 14-6 | Y | | 2,3,4 | | 035 | 2,3 |
| 95 | 21 | M2T41 | REFUELING WATER STORAGE TANK | RSS | YD | 14-6 | Y | | 1,2,3,4,5 | | 034 | 2,3 |
| 96 | 21 | M2T48B | "B" DIESEL ENGINE FUEL OIL SUPPLY DAY TANK | DFS | AB | 38-6 | Y | | 1,2,3,4,5 | Y | 016 | 2,3 |
| 97 | 21 | M2X169A | "A" DC SWITCHGEAR ROOM CHILLER (VITAL CHILLER) | CWD | TB | 14-6 | Y | | 1,2,3,4,5 | | 028 | 2,3 |
| 98 | 21 | M2X18A | "A" RBCCW HEAT EXCHANGER | CCR | AB | 25-6 | Y | | 4 | | 010 | 2,3 |

| Seismic Walkdown Equipment List (SWEL) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Item #** | **Class** | **ID** | **Equipment Description** | **System** | **Bldg** | **Elev** | **Risk Significant (Y/N)** | **New or Replaced** | **Safety Functions** | **Enhanced for IPEEE, A-46** | **Area Walkby** | **Notes** |
| 99 | 21 | M2X20A | "A" SPENT FUEL POOL COOLING HEAT EXCHANGER | SFC | AB | -5 | N | | 4 | | 004 | 2,3,4 |
| 100 | 21 | M2X23A | "A" SHUTDOWN COOLING HEAT EXCHANGER | SCC | AB | -45-6 | Y | | 4 | | 018 | 2,3 |

Notes:
1. Not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible.
2. Has anchorage
3. Detailed anchorage inspection
4. SWEL 2 item, all other items SWEL 1

Safety Functions

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

## 2. Base List 2 / SWEL 2

| ID | Equipment Description | SWEL 2 |
|---|---|---|
| M2FE-7088 | SPENT FUEL POOL COOLING HEADER FLOW ELEMENT | |
| M2FI-7088A | SFP COOLING WATER FLOW INDICATOR, VALVING AND TUBING | |
| M2FIS-7088 | SFP COOLING WATER FLOW INSTRUMENT, VALVING AND TUBING | |
| M2P13A | "A" SPENT FUEL POOL COOLING PUMP ASSEMBLY | X |
| M2P13B | "B" SPENT FUEL POOL COOLING PUMP ASSEMBLY | |
| M2PI-7044 | SFP COOLING PUMP 13A DICHARGE PRESSURE | |
| M2PI-7045 | SFP COOLING PUMP 18B | |
| M2PI-7436 | SPENT FUEL COOLING PUMP P13A SUCTION PRESSURE INDICATOR | |
| M2PI-7662 | SFP P13B SUCTION PRESSURE | |
| M2TW-7033 | SPENT FUEL POOL HEAT EXCHANGER 'A' OUTLET THERMO WELL | |
| M2TW-7316 | SPENT FUEL POOL HEAT EXCHANGER 'B' OUTLET THERMO WELL | |
| M2TW-7426 | SPENT FUEL POOL INLET THERMO WELL | |
| M2X20A | "A" SPENT FUEL POOL COOLING HEAT EXCHANGER | X |
| M2X20B | "B" SPENT FUEL POOL COOLING HEAT EXCHANGER | |

## 3. Summary Tables: Equipment Classes and Systems

| SWEL Equipment Class Summary | | |
|---|---|---|
| **GIP Equipment Class** | **Class Title** | **Equipment Count** |
| 0 | Miscellaneous | 8 |
| 1 | Motor Control Centers | 4 |
| 2 | Low Voltage Switchgear | 2 |
| 3 | Medium Voltage Switchgear | 1 |
| 4 | Transformers | 1 |
| 5 | Horizontal Pumps | 7 |
| 6 | Vertical Pumps | 3 |
| 7 | Fluid Operated Valves | 17 |
| 8 | Motor Operated Valves, Solenoid Operated Valves | 7 |
| 9 | Fans | 3 |
| 10 | Air Handlers | 5 |
| 11 | Chillers | 2 |
| 12 | Air Compressors | 0 |
| 13 | Motor Generators | 0 |
| 14 | Distribution Panels | 6 |
| 15 | Batteries on Racks | 1 |
| 16 | Battery Chargers and Inverters | 2 |
| 17 | Engine Generators | 1 |
| 18 | Instruments on Racks | 9 |
| 19 | Temperature Sensors | 1 |
| 20 | Instrumentation and Control Panels and Racks | 12 |
| 21 | Tanks and Heat Exchangers (GIP Section 7) | 8 |
| | TOTAL | 100 |

| SWEL System Summary | | |
|---|---|---|
| **Local System** | **System Description** | **Equipment Count** |
| 2301 | Reactor Coolant | 1 |
| 2305 | Spent Fuel Pool Cooling and Purification | 2 |
| 2306 | Safety Injection Tanks | 1 |
| 2307 | Low Pressure Safety Injection | 1 |
| 2308 | High Pressure Safety Injection | 2 |
| 2310 | Shutdown Cooling | 3 |
| 2316 | Main Steam | 4 |
| 2321 | Main Feedwater | 1 |
| 2322 | Auxiliary Feedwater | 3 |
| 2337 | Gaseous Radioactive Waste | 1 |
| 2341 | Fire Protection and Deluge | 1 |
| 2343 | Station Electrical 4160V | 1 |
| 2350 | Refueling Water Storage Tank | 3 |
| 2391 | Instrumentation | 2 |
| 2405 | Emergency Safeguards Actuation | 4 |
| 2414 | Main Control Panels | 5 |
| 2304A | Chemical Volume and Control | 2 |
| 2304C | Boric Acid | 5 |
| 2313A | Containment Air Recirc and Cooling | 1 |
| 2315A | Control Room Air Conditioning | 8 |
| 2315B | Non Radwaste Ventilation | 2 |
| 2315D | Vital Switchgear Emergency Cooling | 8 |
| 2315E | Diesel Rooms Ventilation | 2 |
| 2319B | Condensate Storage and Transfer | 2 |
| 2326A | Service Water | 8 |
| 2330A | Reactor Plant Component Cooling Water | 5 |
| 2330C | Chilled Water | 5 |
| 2344A | Load Centers 480V | 2 |
| 2344B | Motor Control 480V | 3 |
| 2345A | Nonvital Regulated Instrument 120V | 1 |
| 2345B | Vital Regulated Instrument 120V | 1 |
| 2345C | DC 125V | 6 |
| 2346A | Emergency Diesel Generator Mechanical | 3 |
| 2346B | Emergency Diesel Generator Fuel | 1 |
| | TOTAL | 100 |

## 4. Area Walk-by List

| AWC # | MPS Unit 2 Plant Area Description | MPS Unit 2 AWC Count |
|---|---|---|
| MP2-WB-001 | Aux Bldg 14'6" B EDG Room | 6 |
| MP2-WB-002 | Aux Bldg -5' BAST Area | 6 |
| MP2-WB-003 | Aux Bldg -5' East Pen | 1 |
| MP2-WB-004 | Aux Bldg -5' SFP Cooling Area | 2 |
| MP2-WB-005 | Aux Bldg -5' West Pen | 1 |
| MP2-WB-006 | Aux Bldg 14'6" A Battery Room | 2 |
| MP2-WB-007 | Aux Bldg 14'6" East DC Switchgear | 8 |
| MP2-WB-008 | Aux Bldg 14'6" Hallway | 1 |
| MP2-WB-009 | Aux Bldg 14'6" B51 and B61 Rooms | 2 |
| MP2-WB-010 | Aux Bldg -25'6" RBCCW HX Area | 3 |
| MP2-WB-011 | Aux Bldg -25'6" CHS Pump Area | 2 |
| MP2-WB-012 | Aux Bldg -25'6" Degasifier Area | 2 |
| MP2-WB-013 | Aux Bldg 36'6" Control Room H&V Room | 6 |
| MP2-WB-014 | Aux Bldg 36'6" East 480v Switchgear Room | 1 |
| MP2-WB-015 | Aux Bldg 36'6" West 480v Switchgear Room | 3 |
| MP2-WB-016 | Aux Bldg 38'6" DG Day Tank Room (B) | 1 |
| MP2-WB-017 | Aux Bldg 38'6" Main Exhaust Fan Room | 1 |
| MP2-WB-018 | Aux Bldg -45'6" A Safeguards Room | 6 |
| MP2-WB-019 | Control Bldg 36'6" Control Room | 7 |
| MP2-WB-020 | Containment 14'6" | 2 |
| MP2-WB-021 | Containment 38'6" | 1 |
| MP2-WB-022 | Intake Structure 14'6" | 6 |
| MP2-WB-023 | Enclosure Bldg 60' West Pen Room | 1 |
| MP2-WB-024 | Enclosure Bldg 71' East Pen RBCCW Surge | 1 |
| MP2-WB-025 | Enclosure Bldg 68'6" East Pen Room | 3 |
| MP2-WB-026 | Turbine Bldg Cable Vault 45' | 1 |
| MP2-WB-027 | Turbine Bldg AFW Rooms 1'6" | 3 |
| MP2-WB-028 | Turbine Bldg Misc 14'6" | 6 |
| MP2-WB-029 | Turbine Bldg Lower 4.16kv Swgr 31'6" | 1 |
| MP2-WB-030 | Turbine Bldg Upper 4.16kv Swgr 54'6" | 3 |
| MP2-WB-031 | Turbine Bldg East 480v Swgr 36'6" | 1 |
| MP2-WB-032 | Turbine Bldg Misc 54'6" | 1 |
| MP2-WB-033 | Turbine Bldg 6.9kv Swgr 54'6" | 1 |
| MP2-WB-034 | Yard RWST Area | 3 |
| MP2-WB-035 | Yard CST Area | 4 |
| MP2-WB-036 | Containment -3' Elev: F14C Area | 1 |

# Appendix C

# Seismic Walkdown Checklists (SWC)

(190 pages)

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-001**

**AWC # MP2-WB-035** Status Y☒ N☐ U☐

Equipment ID No. M22-HV-139-A Equip. Class 0

Equipment Description *F112A (Battery Room) ROOF EXHAUSTER BACKDRAFT DAMPER*

Location: Bldg. *YD* Floor El. *14'-6"* Room, Area *OUTSIDE NEAR F112*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-001

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☐ N☐ U☐ N/A☒

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Thomas Steahr* Date: *08-06-2012*

Evaluated by: *Stephen F. Superson* Date: *08-06-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-002

**AWC #** MP2-WB-013 Status Y☒ N☐ U☐

Equipment ID No. M22-HV-204B Equip. Class 0

Equipment Description *"B" Control Room A/C Unit Fan Discharge Stop Fire Damper*

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *Control Room H&V Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   *Damper is mounted in-line and does not have any external moving parts. SEWS 2-HV-204B, Rev. 0*
   *Drawing No. 25203-24062 for fire damper installation.*
   *Drawing No. 25203-24003 for damper location.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-002**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None*

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Evaluated by: *Sombat Pornprasert* Date: *08-15-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-15-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-003

**AWC #** MP2-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M22-HV-255B Equip. Class 0

Equipment Description *"B" Diesel Generator Room Exhaust Damper*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *"B" D/G Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   *In-line damper, no anchorage.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-003

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-14-2012*

Evaluated by: *Stephen Superson* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-004

**AWC #** MP2-WB-026 Status Y☒ N☐ U☐

Equipment ID No. M22-HV-261/262 Equip. Class 0

Equipment Description *Vital Switchgear Ventilation System Recirculation Fire Damper*

Location: Bldg. *TB* Floor El. *45'* Room, Area *East and West Cable Vault El. 45'-0*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line damper.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-004

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *William Price* Date: *08-15-2012*

Evaluated by: *Stephen F. Superson* Date: *08-15-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-005

**AWC #** MP2-WB-030 Status Y☒ N☐ U☐

Equipment ID No. M22-HV-265 Equip. Class 0

Equipment Description *Vital Switchgear Ventilation System Discharge Fire Damper*

Location: Bldg. *TB* Floor El. *36'-6"* Room, Area *Upper 4160V Switchgear Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line damper.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-005

**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *William Price* Date: *08-15-2012*

Evaluated by: *Stephen F. Superson* Date: *08-15-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-006

**AWC #** MP2-WB-031 Status Y☒ N☐ U☐

Equipment ID No. M22-HV-333 Equip. Class 0

Equipment Description *F52 Discharge to East 480V SwGR Room Fire Damper*

Location: Bldg. *TB* Floor El. *36'-6"* Room, Area *East 480V Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In line damper.*

## Seismic Walkdown Checklist (SWC)

**SWC # MP2 -WD-SWEL-006**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *William Price* Date: *08-15-2012*

Evaluated by: *Stephen Superson* Date: *08-15-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-007

**AWC #** MP2-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M2T49D Equip. Class 0

Equipment Description *"B" Diesel Engine Starting Air Tank "D"*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *"B" D/G Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS report, T49D (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-007

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-14-2012*

Evaluated by: *Stephen Superson* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-008

**AWC #** MP2-WB-032 Status Y☒ N☐ U☐

Equipment ID No. M2T98 Equip. Class 0

Equipment Description *Chilled Water Surge Tank*

Location: Bldg. *TB* Floor El. *54'-6"* Room, Area *Chill Exp Tank*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS T98 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2 -WD-SWEL-008**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-14-2012*

Evaluated by: *William Price* William Price Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-009

**AWC #** MP2-WB-015 Status Y☒ N☐ U☐

Equipment ID No. M222E-MCC Equip. Class 1

Equipment Description *480V BUS 22E (B05) MCC Section*

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *West 480V SWGR Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS 22E-MCC (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-009

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

MCC CUBICLE DOORS WERE OPENED FOR INSPECTION ON A SAMPLE BASIS – NO DEGRADED INTERNAL CONDITIONS FOUND. J. PETROSKY 10/20/12
T. STEVENS 10/20/12

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

Evaluated by: *William Price* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-010

**AWC #** MP2-WB-009 Status Y☒ N☐ U☐

Equipment ID No. B51 Equip. Class 1

Equipment Description *480V MCC BUS B51(22-1E)*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *B51 Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Weld anchorage consistent with SEWS B51 (Calc. MP2 SEIS.RPT)* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-010

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Cables to seismic Trays are OK.*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *No adverse interactions identified.*

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

MCC CUBICLE DOORS WERE OPENED FOR INSPECTION ON A SAMPLE BASIS – NO DEGRADED INTERNAL CONDITIONS FOUND J. PETROSKY 10/19/12 T. STEAHR 10/19/12

**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James Petrosky* Date: *09-05-2012*

Evaluated by: *Tom Steahr* Date: *09-05-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-011

**AWC #** MP2-WB-017 Status Y☒ N☐ U☐

Equipment ID No. M2B62 Equip. Class 14

Equipment Description *480 Volt MCC BUS B62 (22-2F)*

Location: Bldg. *AB* Floor El. *34'-6"* Room, Area *CR HVAC Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS B62 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-011

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

MCC CUBICLE DOORS WERE OPENED FOR INSPECTION ON A SAMPLE BASIS - NO DEGRADED CONDITIONS FOUND.

J. PETRUSKY 10/19/12
T STEHLIK 10/19/12

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-012

**AWC #** MP2-WB-007 Status Y☒ N☐ U☐

Equipment ID No. M2201A Equip. Class 2

Equipment Description *DC Battery Bus 201A*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *East DC Switchgear*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS D01 (201A) Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-012

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Internals inspection of battery bus cubicles DO102, DO103, and DO107 – verified anchorage, adjacent cabinets bolted together, and internals condition, .*

Evaluated by: *James Petrosky* Date: *10-16-2012*

Evaluated by: *Thomas Steahr* Date: *10-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-013

**AWC #** MP2-WB-015 Status Y☒ N☐ U☐

Equipment ID No. M222E Equip. Class 2

Equipment Description *480V BUS 22E (B05)*

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *West 480V SWGR Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS 22E (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-013

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

SWITCHGEAR CUBICLE DOORS WERE OPENED FOR INSPECTION ON A SAMPLE BASIS - NO DEGRADED INTERNAL CONDITIONS FOUND.

J PETROSKY 10/19/12

T. STEHNA 10/19/12

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-10-2012*

Evaluated by: *William Price* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-014

**AWC #** MP2-WB-029 Status Y☒ N☐ U☐

Equipment ID No. M224C Equip. Class 3

Equipment Description *4.16 kV Emergency Bus 24C*

Location: Bldg. *TB* Floor El. *31'-6"* Room, Area *East DC Switchgear*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference: SEWS 24C (Calc MP2-SEIS.RPT Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-014

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*Internals inspection of cabinet A302 of bus 24C with breaker removed: -- verified anchorage, adjacent cabinets bolted together, and internals condition,*

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Evaluated by: *James Petrosky* Date: *10-16-2012*

Evaluated by: *Thomas Steahr* Date: *10-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-015

**AWC #** MP2-WB-007 Status Y☒ N☐ U☐

Equipment ID No. M2UAC3 Equip. Class 4

Equipment Description *Regulating Transformer UAC3*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *DC Equipment Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Cabinet was replaced per Design Change DCR M2-02009. Base Anchorage justified per Calculation No. 02-ENG-03148C2 Rev. 2.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-015

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-016

**AWC #** MP2-WB-009 Status Y☒ N☐ U☐

Equipment ID No. B61 Equip. Class 1

Equipment Description *480V MCC Bus B61(22-1F)*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *B61 Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Welded anchorage consistent with SEWS B61 (Calc. MP2 SEIS.RPT)*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-016

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Cables to seismic trays are OK.*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *No adverse interactions identified.*

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

MCC CUBICLE DOORS WERE OPENED FOR INSPECTION ON A SAMPLE BASIS – NO DEGRADED INTERNAL CONDITIONS FOUND J. PETROSKY 10/19/12 T. STEAHR 10/19/12

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *09-05-2012*

Evaluated by: *Tom Steahr* Date: *09-05-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-017

**AWC #** MP2-WB-010 Status Y☒ N☐ U☐

Equipment ID No. M2P11A Equip. Class 5

Equipment Description *"A" RBCCW Pump Assembly*

Location: Bldg. *AB* Floor El. *-25'-6"* Room, Area *RBCCW Pump/ Heat Exchanger Area*

Manufacturer, Model, Etc. (optional but recommended) *I-R 200 HP*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   *Small (less than ¼") cracks on SEWS sheets 4-10 which have no adverse effect on anchorage.*

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Anchorage consistent with SEWS sheets 5-10.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-017

**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

*References: SEWS P11A (Rev. 0) SH. 1-10*
*Drawing 25203-27019 Rev. 1B*
*Drawing 25203-29009 SH. 1-4*

Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-018

**AWC #** MP2-WB-004 Status Y☒ N☐ U☐

Equipment ID No. M2P13A Equip. Class 5

Equipment Description *"A" SFP Pump Assembly*

Location: Bldg. *AB* Floor El. *-5'-6"* Room, Area *SFP Pump Area*

Manufacturer, Model, Etc. (optional but recommended) *Gould 3196 "MT"*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Anchorage bolt configuration and size consistent with VTM No. 25203-308-003 using layout and hole size.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-018

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Overhead lighting fixtures are hung by ~1" diameter conduit from ceiling, light and fixtures have no significant weight and have no adverse interaction with pump.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *Ladders stored near tool crib door are secured per OA8 and will have no adverse interaction with pump.*

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*References: VTM No. 25203-308-003*
*Drawing 25203-29010 SH. 3*

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Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-019

**AWC #** MP2-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M2P18A Equip. Class 5

Equipment Description *"A" Charging Pump Assembly (MTR HTR BKR LH51-8)*

Location: Bldg. *AB* Floor El. *-25'-6"* Room, Area *Charging Pump Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS ID P18A (rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-019**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

---

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Thomas Steahr* Thomas C Steahr Date: *08-09-2012*

Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-020

**AWC #** MP2-WB-002 Status Y☒ N☐ U☐

Equipment ID No. M2P19A Equip. Class 5

Equipment Description *"A" Boric Acid Pump Assembly*

Location: Bldg. *AB* Floor El. *-5'* Room, Area *BA Storage Tank Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS ID P19A Rev. 0.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-020

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Thomas Steahr* Date: *08-09-2012*

Evaluated by: *Stephen Superson* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-021

**AWC #** MP2-WB-027 Status Y☒ N☐ U☐

Equipment ID No. M2P4 Equip. Class 5

Equipment Description *Terry Turbine Aux Feedwater Pump Assembly*

Location: Bldg. *TB* Floor El. *1'-6"* Room, Area *Terry Turbine Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing #25203-11063 and SEWS for ID #P4 Rev. 0.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-021

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* Date: *08-06-2012*

Evaluated by: *William Price* Date: *08-06-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-022

**AWC #** MP2-WB-018 Status Y☒ N☐ U☐

Equipment ID No. M2P41A Equip. Class 5

Equipment Description *"A" High Pressure Safety Injection Pump Assembly (Mtr Htr Bkr LH51-2)*

Location: Bldg. *AB* Floor El. *-45'* Room, Area *"A" Safeguards Room*

Manufacturer, Model, Etc. (optional but recommended) *Allis Chalmers 400 HP Type RG*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *SEWSP41A (Rev.0) uses a conservative anchor bolt configuration for evaluation; all bolting was inspected and found to be acceptable.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-022

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light fixtures supported by conduit, has no adverse effect on the pump. Duct above the pump is well supported and will have no adverse interaction with the pump*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*SEWS P41A (Rev. 0) sheets 1-11*
*Dwg. 25203-27020*
*Dwg. 25203-11085*

Evaluated by: *James Petrosky* Date: *08-09-2012*

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-023

**AWC #** MP2-WB-027 Status Y☒ N☐ U☐

Equipment ID No. M2P9A Equip. Class 5

Equipment Description *"A" Aux Feedwater Pump Assembly (MTR HTR BKR LH51-6)*

Location: Bldg. *TB* Floor El. *1'-6"* Room, Area *Elec. Aux. Feed Pump Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference drawing # 25203-11063 and the Screening Evaluation WorkSheet (SEWS) for ID #P9A Rev. 1* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-023

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *William Price* Date: *08-06-2012*

Evaluated by: *James McKinney* Date: *08-06-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-024

**AWC #** MP2-WB-028 Status Y☒ N☐ U☐

Equipment ID No. M2P122A Equip. Class 6

Equipment Description *"A" DC Switchgear Room Chiller (X169A) Chill Water Pump Assembly*

Location: Bldg. *TB* Floor El. *14'-6"* Room, Area *Chillers Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-024

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *Jim McKinney* James Mc Kinney Date: *08-09-2012*

Evaluated by: *William Price* William Price Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-025

**AWC #** MP2-WB-018 Status Y☒ N☐ U☐

Equipment ID No. M2P42A Equip. Class 6

Equipment Description *"A" Low Pressure Safety Injection Pump Assembly (Mtr Htr Bkr LH51-3)*

Location: Bldg. *AB* Floor El. *-45'-6"* Room, Area *"A" Safeguards Room*

Manufacturer, Model, Etc. (optional but recommended) *Ingersoll Rand 400 HP*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *SEWS P42A (Rev.0) refers to P42B (Rev. 0)for anchor Bolt evaluation, which very conservatively considers the 4 main support columns only and not the lateral bracing. All bolting inspected and found to be acceptable.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-025**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light fixtures supported by conduit have no adverse effect on the pump.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *Tool box stored near the pump is restrained by pump support and will have no adverse interaction with the pump.*

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*SEWS P42A (Rev. 0) sheets 1-5*
*SEWS P42B (Rev. 0) sheets 1-8*
*Dwg. 25203-27020*
*Dwg. 25203-11085*

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Evaluated by: *James Petrosky* Date: *08-09-2012*

Evaluated by: *Jack Diluna* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-026

**AWC #** MP2-WB-022 Status Y☒ N☐ U☐

Equipment ID No. M2P5A Equip. Class 6

Equipment Description *'A' Service Water Pump*

Location: Bldg. *CW* Floor El. *14'-6"* Room, Area *SW Pump / Intake*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *See SEWS P5A (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-026

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas Steahr* Thom a. Stea Date: *08-07-2012*

Evaluated by: *Stephen Superson* Steph F. Sup Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-027

**AWC #** MP2-WB-002 Status Y☒ N☐ U☐

Equipment ID No. M22-CH-210X Equip. Class 7

Equipment Description *Dilution Control Valve Assembly*

Location: Bldg. *AB* Floor El. *-5'* Room, Area *BA Storage Tank Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-027

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Reference SEWS ID 2-CH-210X Rev. 0.*

Evaluated by: *Thomas Steahr* Date: *08-09-2012*

Evaluated by: *Stephen Superson* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-028

**AWC #** MP2-WB-002 Status Y☒ N☐ U☐

Equipment ID No. M22-CH-512 Equip. Class 7

Equipment Description *Volume Control Tank Makeup Control Valve Assembly*

Location: Bldg. *AB* Floor El. *-5'* Room, Area *Boric Acid Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-028

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Manufactured by BETTS. Valve stem is vertically oriented, (not 15° off vertical).*

Evaluated by: *Thomas Steahr* Date: *08-09-2012*

Evaluated by: *Stephen Superson* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-029

**AWC #** MP2-WB-028 Status Y☒ N☐ U☐

Equipment ID No. M22-CHW-11 Equip. Class 7

Equipment Description *Chilled Water Supply Header Cross Tie Control Valve Assembly*

Location: Bldg. *TB* Floor El. *14'-6"* Room, Area *Chillers Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *Valve operator has U-bolt support below hand wheel, no drawings in package. 4 Bolt Baseplate and Tube steel structure is significantly stiff therefore adequate.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-029

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *Jim McKinney* Date: *08-09-2012*

Evaluated by: *William Price* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-030

**AWC #** MP2-WB-028 Status Y☒ N☐ U☐

Equipment ID No. M22-CHW-13 Equip. Class 7

Equipment Description *Chilled Water Return Header Cross Tie Control Valve Assembly*

Location: Bldg. *TB* Floor El. *14'-6"* Room, Area *TBCCW Pump &HX*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-030

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James Mc Kinney Date: *08-09-2012*

Evaluated by: *William Price* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-031

**AWC #** MP2-WB-028 Status Y☒ N☐ U☐

Equipment ID No. M22-FWA-43A Equip. Class 7

Equipment Description *#1 Steam Generator Aux Feedwater Regulating Valve Assembly*

Location: Bldg. *TB* Floor El. *14'-6"* Room, Area *Aux Feed Valve Station*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-031

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James Mc Kinney Date: *08-09-2012*

Evaluated by: *William Price* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-032

**AWC #** MP2-WB-025 Status Y☒ N☐ U☐

Equipment ID No. M22-FW-5B Equip. Class 7

Equipment Description *#2 S/G Main Feed Supply Air-Assist Check Valve Assembly Pen #16*

Location: Bldg. *EB* Floor El. *38'-6"* Room, Area *West Pipe Penetration Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   *In-line valve. Drawings No. 25203-29046 SH 1, Rev.7 and drawing no. 25203-20150 SH 514, Rev. 14*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-032

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Detail clearance is larger than the clearance noted in SEWS 2-FW5B, Rev. 0.*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-033

**AWC #** MP2-WB-025 Status Y☒ N☐ U☐

Equipment ID No. M22-MS-190B Equip. Class 7

Equipment Description *#2 S/G Main ATOMSPHERIC Dump Control Valve Assembly Pen 2*

Location: Bldg. *EB* Floor El. *38'-6"* Room, Area *West Pipe Penetration Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   *In-line valve Drawing No.25203-29087 Sht.1, Rev. 14. SOV externally mounted on containment wall on rigid support.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2 -WD-SWEL-033**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-034

**AWC #** MP2-WB-023 Status Y☒ N☐ U☐

Equipment ID No. 2-MS-239 Equip. Class 7

Equipment Description *"#2 Steam Generator Safety Relief Valve*

Location: Bldg. *EB* Floor El. *60'* Room, Area *West Penetration Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   *In-line valve drawing No. 25203-29059-00012A (Rev. 3).*
   *Iso. Drawing 25203-20150-00503 (Rev. 20).*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2 -WD-SWEL-034**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-035

**AWC #** MP2-WB-025 Status Y☒ N☐ U☐

Equipment ID No. M22-MS-64B Equip. Class 7

Equipment Description *#2 S/G Main Isolation Valve Pen #20*

Location: Bldg. *EB* Floor El. *38'-6"* Room, Area *West Pipe Penetration Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   *In-line valve. Drawing No. 25203-29052 SH1, Rev. 13.*
   *ISO Drawing No. 25203-20150 SH 501, Rev. 18*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-035

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-036**

**AWC # MP2-WB-018** Status Y☒ N☐ U☐

Equipment ID No. M22-RB-13.1A Equip. Class 7

Equipment Description *"A" Shutdown Cooling Heat Exchanger Outlet Stop Valve Assembly*

Location: Bldg. *AB* Floor El. *-45'-6"* Room, Area *"A" Safeguards Room*

Manufacturer, Model, Etc. (optional but recommended) *18" 150 lb. Allis-Chalmers wafer valve*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line component (valve)*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-036

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
*The shake space between tubing on the operator and adjacent item is approximately 2" minimum, which is evaluated as acceptable.*

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**Comments** (Additional pages may be added as necessary)

*References: Sews 2-RB-13.1A (rev. 0) sheets 1-3*
*DWG. 25203-20150 sheet 25*
*DWG 25203-29054 sheet 13*

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Evaluated by: *James Petrosky* Date: *08-09-2012*

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-037

**AWC #** MP2-WB-010 Status Y☒ N☐ U☐

Equipment ID No. M22-RB-4.1B Equip. Class 7

Equipment Description *RBCCW Heat Exchanger 18A Header B Outlet Valve*

Location: Bldg. *AB* Floor El. *-25'-6"* Room, Area *RBCCW HX*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line valve.*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *N/A.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-037

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light fixture ~2 feet from valve actuator has no significant weight, and there is an intervening support element, thus no adverse seismic interaction. Small bore airline in overhead is adequately supported and will have no adverse interaction.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*References: SEWS 2RB-4.1B (Rev. 0) Sheets 1-4.*

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Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-038

**AWC #** MP2-WB-021 Status Y☒ N☐ U☐

Equipment ID No. M22-RC-402 Equip. Class 7

Equipment Description *Pressurizer Power Operated Relief Valve Assembly*

Location: Bldg. *CE* Floor El. *38'-6"* Room, Area *Top of Pressurizer*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line valve, no anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-038

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*No adverse conditions on interactions in vicinity of 2-RC-402 or 2-RC-404 in pressurizer cubicle.*

Evaluated by: *James McKinney* James Mc Kinney Date: *08-16-2012*

Evaluated by: *James Petrosky* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-039

**AWC #** MP2-WB-018 Status Y☒ N☐ U☐

Equipment ID No. M22-SI-306 Equip. Class 7

Equipment Description *Shutdown Cooling Flow Control Valve Assembly*

Location: Bldg. *AB* Floor El. *-45'-6"* Room, Area *"A" Safeguards Room*

Manufacturer, Model, Etc. (optional but recommended) *Fisher w/ Bettis Robotarm, 10"*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line component (valve).*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-039

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light Fixtures supported by conduit has no adverse effect on the valve.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
    *Shake space between this valve and SI-657 is approximately 1"- 2" minimum. Lines are well supported and the shake space is acceptable thus no adverse seismic interaction.*

**Comments** (Additional pages may be added as necessary)

*SEWS 2-SI-306 (Rev. 0) sheets 1 to 4*
*Dwg. 25203-29053 sht. 18*

Evaluated by: *James Petrosky* Date: *08-09-2012*

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-040

**AWC #** MP2-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M22-SW-231B Equip. Class 7

Equipment Description *"B" D/G Heat Exchanger Service Water Bypass Valve Assembly*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *"B" D/G Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *In-line valve, no anchorage.* Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-040

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *William Price* Date: *08-14-2012*

Evaluated by: *Stephen Superson* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-041

**AWC #** MP2-WB-028 Status Y☒ N☐ U☐

Equipment ID No. M22-SW-3.2A Equip. Class 7

Equipment Description *"B" Service Water Header Supply to TBCCW Stop Valve*

Location: Bldg. *TB* Floor El. *14'-6"* Room, Area *TBCCW HX Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-041

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Security cage roof has several sections which appear to be held in place by a single cage member.*

   *CR 484417 The supervisor walked down this area with the initiator (a qualified seismic engineer) and another qualified seismic engineer. While the supports for the top of the fenced enclosure could certainly use enhancement, they are not, nor are they intended to be, safety grade components. However, they are considered seismic 2 over 1, in that they need to be able to prevent the fencing from falling during a seismic event and impacting the safety related equipment below. In examining the entire arrangement and additional protection provided by other members of this structure, all parties concluded that there would be no impact on safety related equipment during a seismic event. This is an enhancement.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Refer to CR 484417.*

Evaluated by: *James McKinney* James Mc Kinney Date: *08-09-2012*

Evaluated by: *William Price* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-042

**AWC #** MP2-WB-022 Status Y☒ N☐ U☐

Equipment ID No. M22-SW-90A Equip. Class 7

Equipment Description *'A' Service Water Pump Discharge Strainer Flush Valve*

Location: Bldg. *CW* Floor El. *14'-6"* Room, Area *Intake*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-042

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☐ N☐ U☐ N/A☒

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*SEWS 2-SW-90A (rev. 0) indicates a clearance of 2.75" between the actuator and adjacent pipe. The actual clearance is 0.625" which is still considered acceptable.*

Evaluated by: *Thomas Steahr* Thomas P. Steahr Date: *08-07-2012*

Evaluated by: *Stephen Superson* Stephen K. Superson Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-043

**AWC #** MP2-WB-022 Status Y☒ N☐ U☐

Equipment ID No. M22-SW-97A Equip. Class 7

Equipment Description *Service Water Pump Header X-Tie Control Valve*

Location: Bldg. *CW* Floor El. *14'* Room, Area *SW Pump*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-043

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Valve shown in SEWS 2SW-97A (Rev. 0) has been replaced in accordance with DCN No. DM2-00-0343-08*

Evaluated by: *Thomas Steahr* Date: *08-07-2012*

Evaluated by: *Stephen Superson* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-044

**AWC #** MP2-WB-012 Status Y☒ N☐ U☐

Equipment ID No. M22-CH-501 Equip. Class 8

Equipment Description *Volume Control Tank To Charging System Outlet Valve Assembly*

Location: Bldg. *AB* Floor El. *-25'6"* Room, Area *Degasifier room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-044

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*Reference SEWS 2-CH-501 (Rev. 0).*

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Evaluated by: *Thomas Steahr* Thomas A. Steahr Date: *08-09-2012*

Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-045

**AWC #** MP2-WB-002 Status Y☒ N☐ U☐

Equipment ID No. M22-CH-509 Equip. Class 8

Equipment Description *"A" Boric Acid Storage Tank Outlet Gravity Feed Valve*

Location: Bldg. *AB* Floor El. *-5'* Room, Area *BAST Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-045**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*Reference SEWS ID 2-CH-509 Rev. 0.*

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Evaluated by: *Thomas Steahr* Date: *08-09-2012*

Evaluated by: *Stephen Superson* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-046

**AWC #** MP2-WB-002 Status Y☒ N☐ U☐

Equipment ID No. M22-CH-514 Equip. Class 8

Equipment Description *Boric Acid Pumps "A"/"B" to Charging Pump Suction Valve Assembly*

Location: Bldg. *AB* Floor El. *-5'* Room, Area *BAST Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-046**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*Reference SEWS ID 2-CH-514 Rev. 0.*

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Evaluated by: *Thomas Steahr* Thomas A. Steahr Date: *08-09-2012*

Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-047

**AWC #** MP2-WB-027 Status Y☒ N☐ U☐

Equipment ID No. M22-MS-464 (SV-4188 Equip. Class 8

Equipment Description *Terry Turbine Aux Feed Pump Steam Supply*

Location: Bldg. *TB* Floor El. *1'-6"* Room, Area *TDAFW Pump Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line MOV.*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *Non-anchored, in-line component.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-047

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Flex conduits attached.*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *No interactions identified*

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*GIP ID SV-4188*

Evaluated by: *James Petrosky* Date: *09-05-2012*

Evaluated by: *Tom Steahr* Date: *09-05-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-048

**AWC #** MP2-WB-013 Status Y☒ N☐ U☐

Equipment ID No. M22HV-215A Equip. Class 8

Equipment Description *"B" Refrigeration Cycle Clg Coil (X42B) Inlet Valve Assembly*

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *Control Room H&V Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒
   *SOV is mounted in-line on 5/8" piping. Reference ISO Drawing 25203-20135 SH 13, Rev. 1*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-048

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**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

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**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | Y☒ N☐ U☐ |

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**Comments** (Additional pages may be added as necessary)

*None*

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Evaluated by: *Sombat Pornprasert* Date: *08-15-2012*

Evaluated by: *Thomas. A Steahr* Date: *08-15-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-049

**AWC #** MP2-WB-020 Status Y☒ N☐ U☐

Equipment ID No. M22-SI-614 Equip. Class 8

Equipment Description *#1 Safety Injection Tank Outlet Valve Assembly*

Location: Bldg. *CE* Floor El. *14'-6"* Room, Area *NorthEast Corner*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line valve, no anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-049

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*No interactions or adverse conditions.*

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Evaluated by: *James McKinney* James McKinney Date: *08-16-2012*

Evaluated by: *James Petrosky* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-050

**AWC #** MP2-WB-018 Status Y☒ N☐ U☐

Equipment ID No. M22-SI-656 Equip. Class 8

Equipment Description *"A" HPSI Header Stop Valve Assembly*

Location: Bldg. *AB* Floor El. *-45'-6"* Room, Area *"A" Safeguards Room*

Manufacturer, Model, Etc. (optional but recommended) *6" Velan*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *SEWS2-SI-656 (Rev. 0) did not credit support attached to operator (No. 507004). Anchorage of support shows no adverse conditions.* Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-050

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light fixtures supported by conduit have no adverse effect on valve.*
   *Cable trays in overhead have no adverse effect on valve.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*SEWS 2-SI-656 (Rev. 0) sheets 1-3*

Evaluated by: *James Petrosky* Date: *08-09-2012*

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-051

**AWC #** MP2-WB-035 Status Y☒ N☐ U☐

Equipment ID No. M2F112B Equip. Class 9

Equipment Description *"B" DC Battery Room Exhaust Fan Assembly*

Location: Bldg. *YD* Floor El. *14'-6"* Room, Area *Outside Between U1 and U2*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-051

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Fan is an in-line component. No anchor evaluation required. Fan support structure is cantilevered from Aux. building. See Sews F112B Rev.0*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-052

**AWC #** MP2-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M2F38B Equip. Class 9

Equipment Description *"B" D/G Room Vent Fan Assembly*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *"B" D/G Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-052

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Reference SEWS F38B (Rev. 0).*

Evaluated by: *William Price* Date: *08-14-2012*

Evaluated by: *Stephen Superson* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-053

**AWC #** MP2-WB-033 Status Y☒ N☐ U☐

Equipment ID No. M2F52 Equip. Class 9

Equipment Description *East 480 Volt Room Supply Fan Assembly (MTR HTR BKR LH61-6)*

Location: Bldg. *TB* Floor El. *56'-6"* Room, Area *6.9kv Switchgear Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-053

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Initiated CR 484940 for drawing update. Drawing No. 25203-51093 does not match fan F52 support configuration. SEWS F52, Rev. 0 is consistent with actual field conditions, therefore acceptable as indicated above.*

Evaluated by: *William Price* Date: *08-15-2012*

Evaluated by: *Stephen F. Superson* Date: *08-15-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-054

**AWC #** MP2-WB-030 Status Y☒ N☐ U☐

Equipment ID No. M2F133 Equip. Class 10

Equipment Description *Upper 4160 volt Switchgear Room Cooling Fan Assembly*

Location: Bldg. *TB* Floor El. *56'-6"* Room, Area *Upper 4160v Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS F133 (Rev. 0)* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-054

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None*

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Evaluated by: *William Price* Date: *08-15-12*

Evaluated by: *Stephen F. Superson* Date: *08-15-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-055

**AWC #** MP2-WB-036 Status Y☒ N☐ U☐

Equipment ID No. M2F14 C Equip. Class 10

Equipment Description *CTMT Air Recirc Cooling Unit Fan Assembly*

Location: Bldg. *CE* Floor El. *-3'-6"* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐
   *See comments.*

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   *See comments.*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   *See comments.*

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *See comments.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *See comments.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-055

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Anchorage of fan motor to concrete slab not visible (see reference Drawing No. 25203-29123, SH 1A). However, flanged connections to ductwork was visible and in good condition. Associated air cooler and structural steel mounting was in good condition.*

Evaluated by: *James McKinney* James McKinney Date: *08-16-2012*

Evaluated by: *James Petrosky* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-056

**AWC #** MP2-WB-013 Status Y☒ N☐ U☐

Equipment ID No. M22F21B Equip. Class 10

Equipment Description *"B" Control Room A/C System Fan Assembly*

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *Control Room H&V Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Drawing No. 25203-51091, Rev. 0 for base pad.*
   *Drawing No. 25203-27015, Rev. 25 for location.*
   *SEWS F21B, Rev. 0*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-056

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Sombat Pornprasert* Date: *08-15-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-15-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-057

**AWC #** MP2-WB-008 Status Y☒ N☐ U☐

Equipment ID No. M2F54B Equip. Class 10

Equipment Description *"B" DC Room Air Conditioning Unit Fan Assembly*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *Hallway Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *SEWS F54B, Rev. 0*
   *Drawing No. 25203-24007*
   *Drawing No. 25203-28017*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-057

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Thomas A. Steahr* Thomas A. Steahr NTTF 8-14-12 Date: *08-14-2012*

Evaluated by: *Sombat Pornprasert* Sombat Pornprasert Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-058

**AWC #** MP2-WB-015 Status Y☒ N☐ U☐

Equipment ID No. M2X181A Equip. Class 10

Equipment Description *"A" West 480V Load Center Room Cooling Coil*

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *West 480V Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☒ U☐ N/A☐
   *Surface corrosion on one of the four foundation legs, previously identified and elevated as not affecting design function. Reference CR47969, Baseplate Corrosion on Northwest Baseplate.*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Reference SEWS X181A (Rev. 0).*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2 -WD-SWEL-058**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-10-2012*

Evaluated by: *William Price* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-059

**AWC #** MP2-WB-012 Status Y☒ N☐ U☐

Equipment ID No. M2F1A Equip. Class 11

Equipment Description *"A" Waste Gas Compressor Assembly*

Location: Bldg. *AB* Floor El. *-25'6"* Room, Area *WG Compressor room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS F1A (rev. 0)* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-059

**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Thomas A. Steahr* Date: *08-09-2012*

Evaluated by: *Stephen F. Superson* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-060

**AWC #** MP2-WB-013 Status Y☒ N☐ U☐

Equipment ID No. M22F22B Equip. Class 11

Equipment Description *"B" Control Room A/C System Compressor Assembly*

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *Control Room H&V Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Drawing No. 25203-24003 for location.*
   *Drawing No. 25203-11113 Rev. 4 for slab.*
   *Drawing No. 25203-11919 SH 764 for pad and bolt design.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-060

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Plan Drawing No. 25203-11113, Rev. 4 references Drawing No. 25203-11919 SH 764, which shows (4) ¾"Wej-its. This is consistent with as-installed configuration and existing SEWS F22B, Rev. 0 (References SEWS F22A, Rev. 0)*

Evaluated by: *Sombat Pornprasert* Date: *08-15-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-15-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-062

**AWC #** MP2-WB-007 Status Y☒ N☐ U☐

Equipment ID No. M2D11 Equip. Class 14

Equipment Description *125 Volt DC Distribution Panel 201A-1 (FAC 1)*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *East DC SWGR Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Calculation 96-ENG-1502M2 and SEWS D11 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-062

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-063

**AWC #** MP2-WB-007 Status Y☒ N☐ U☐

Equipment ID No. M2D12 Equip. Class 14

Equipment Description *125 Volt DC Distribution Panel 201A-2 (FAC 1)*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *East DC SWGR Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Calculation 96-ENG-1502M2 and SEWS D12 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-063

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-064

**AWC #** MP2-WB-007 Status Y☒ N☐ U☐

Equipment ID No. M2DV10 Equip. Class 14

Equipment Description *125 Volt DC Distribution Panel*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *East DC SWGR Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS DV20 (Rev. 0). And Drawing 25203-34308-00014 (Rev. 2).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-064

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Stph F. Sup Date: *08-17-2012*

Evaluated by: *William Price* Will Date: *08-17-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-066

**AWC #** MP2-WB-007 Status Y☒ N☐ U☐

Equipment ID No. M2VR11 Equip. Class 14

Equipment Description *Distribution Panel*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *East DC SWGR Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Calculation 96-ENG-1502M2 and SEWS VR11 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-066

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-067

**AWC #** MP2-WB-006 Status Y☒ N☐ U☐

Equipment ID No. M2DB1-201A Equip. Class 15

Equipment Description *"A" Volt DC Station Battery*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *"A" DC Battery Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS DB1 (Rev. 0) and DCN DM2-S-0628-96.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-067**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Lights swivel, therefore no seismic concerns.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

Evaluated by: *William Price* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-068

**AWC #** MP2-WB-007 Status Y☒ N☐ U☐

Equipment ID No. M2DC1 Equip. Class 16

Equipment Description *"A" Battery Charger to Battery Bus 201A*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *East DC SWGR Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Calculation 88-049-452D2 and SEWS DC1 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-068

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-069

**AWC #** MP2-WB-006 Status Y☒ N☐ U☐

Equipment ID No. M2INV1 Equip. Class 16

Equipment Description *Inverter #1*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *"A" Battery Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Calculation 89-031-102D2 and SEWS VIP1 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-069

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

EQUIVALENT SISTER SSEL COMPONENT M2 INV 3 WAS INSPECTED INTERNALLY DUE TO OPERATIONAL ACCESSIBILITY – NO DEGRADED INTERNAL CONDITIONS FOUND

J. PETRUSKY 10/17/12

T. STEARNS 10/17/12

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-070

**AWC #** MP2-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M2H7B Equip. Class 17

Equipment Description *"B" Emergency Diesel Generator Assembly*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *"B" D/G Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS H7B (Rev. 0) and Drawing 25203-11105 (Rev. 10).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-070

**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-14-2012*

Evaluated by: *Steve Superson* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-71

**AWC #** MP2-WB-020 Status Y☒ N☐ U☐

Equipment ID No. M2C172 Equip. Class 18

Equipment Description *Instrument Rack*

Location: Bldg. *CE* Floor El. *14'-6"* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS C172 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-71

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Anchorage and frame very robust relative to mass of attached instrumentation.*

Evaluated by: *James McKinney* James McKinney Date: *08-16-2012*

Evaluated by: *James Petrosky* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-072

**AWC #** MP2-WB-034 Status Y☒ N☐ U☐

Equipment ID No. M2LT-3001 Equip. Class 18

Equipment Description *RWST LEVEL ESAS CHANNEL A*

Location: Bldg. *YD* Floor El. *14'-6"* Room, Area *NORTH SIDE OF RWST*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *See SEWS LT-3001 (Rev. 1).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-072**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? *See SEWS LT-3001 (Rev. 1).* Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Thomas Steahr* Thomas A. Steahr Date: *08-06-2012*

Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-06-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-073

**AWC #** MP2-WB-034 Status Y☒ N☐ U☐

Equipment ID No. M2LT-3003 Equip. Class 18

Equipment Description *RWST LEVEL CHANNEL C*

Location: Bldg. *YD* Floor El. *14'-6"* Room, Area *NORTH EAST SIDE OF RWST*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *See SEWS LT-3003 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-073

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas Steahr* Date: *08-06-2012*

Evaluated by: *Stephen Superson* Date: *08-06-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-074

**AWC #** MP2-WB-035 Status Y☒ N☐ U☐

Equipment ID No. M2LT-5282 Equip. Class 18

Equipment Description *Condensate Storage Tank Level XMTR*

Location: Bldg. *YD* Floor El. *14'-6"* Room, Area *IN CST SHACK*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *See SEWS LT-5282 (Rev. 1) and Drawing No. 25203-34308-00014.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-074

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Reference SEWS LT-5282 (Rev. 1)*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Thomas A. Steahr* Date: *08-07-21012*

Evaluated by: *Stephen F. Superson* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-075

**AWC #** MP2-WB-022 Status Y☒ N☐ U☐

Equipment ID No. M2PDC-6475 Equip. Class 18

Equipment Description *SW Strainer A Diff Pressure Controller*

Location: Bldg. *CW* Floor El. *14'* Room, Area *SW Pump / Intake*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   *Anchor Bolts & Baseplate coated with black epoxy.*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *See SEWS PDC-6475 (Rev. 0).*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-075

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas A. Steahr* Date: *08-07-21012*

Evaluated by: *Stephen F. Superson* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-076

**AWC #** MP2-WB-022 Status Y☒ N☐ U☐

Equipment ID No. M2PDC-6488 Equip. Class 18

Equipment Description *SW Strainer C Diff Pressure Controller*

Location: Bldg. *CW* Floor El. *14'* Room, Area *SW Pump / Intake*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   *Anchor Bolts & Baseplate coated with black epoxy.*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *See SEWS PDC-6488 (Rev. 0).*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-076**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas A. Steahr* Date: *08-07-21012*

Evaluated by: *Stephen F. Superson* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-077

**AWC #** MP2-WB-003 Status Y☒ N☐ U☐

Equipment ID No. M2PT-8113 Equip. Class 18

Equipment Description *CTMT Pressure Xmtr, Channel "A" RPS/ESAS*

Location: Bldg. *AB* Floor El. *-5* Room, Area *E Penet CTMT Wall-E*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Component replaced and support configuration changed since SEWS PT-8113, Rev. 0 was completed. The modification was done under DCR no. M2-99016, Rev. 0.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-077

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-078

**AWC #** MP2-WB-005 Status Y☒ N☐ U☐

Equipment ID No. M2PT-8115 Equip. Class 18

Equipment Description *CTMT Pressure Xmtr, Channel "C" RPS/ESAS*

Location: Bldg. *AB* Floor El. *-5* Room, Area *W Penet CTMT Wall-E*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Component replaced and support configuration changed since SEWS PT-8115, Rev. 0 was completed. The modification was done under DCR No. M2-99016, Rev. 0.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-078

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-079

**AWC #** MP2-WB-002 Status Y☒ N☐ U☐

Equipment ID No. C126 Equip. Class 18

Equipment Description *Rack C126 for Boric Acid Tank Level*

Location: Bldg. *AB* Floor El. *-5'* Room, Area *BAST Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Consistent with SEWS evaluation. (SEWS C126 in Calc. MP2SEIS.RPT)* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-079

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   *Non-seismic piping in overhead, but adequately restrained.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Rigid conduit connections, but supported with U-bolt clamps and unistrut as evaluated in SEWS.*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Rack is designated as non-safety related seismic in MEL and on A46 SSEL.*

Evaluated by: *James Petrosky* Date: *09-05-2012*

Evaluated by: *Tom Steahr* Date: *09-05-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-080

**AWC #** MP2-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M2TE-351Y Equip. Class 19

Equipment Description *Shutdown Cooling Safety Injection Pump Discharge Temp RTD*

Location: Bldg. *AB* Floor El. *-25'-6"* Room, Area *"B" Charging Pump Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-080

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Reference SEWS TE-351Y (Rev. 0).*

Evaluated by: *Thomas Steahr* Date: *08-09-2012*

Evaluated by: *Stephen Superson* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-081

**AWC #** MP2-WB-019 Status Y☒ N☐ U☐

Equipment ID No. M2ACT-5 / RC02B Equip. Class 20

Equipment Description *ESAS Actuation Cabinet 5*

Location: Bldg. *CB* Floor El. *36'-6"* Room, Area *Control Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS RC02B (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-081

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-16-2012*

Evaluated by: *William Price* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-082

**AWC #** MP2-WB-019 Status Y☒ N☐ U☐

Equipment ID No. M2C08R Equip. Class 20

Equipment Description *C08R main control board*

Location: Bldg. *CB* Floor El. *36'-6"* Room, Area *Control Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *This walkdown does not credit a detailed anchorage inspection because access to C08R was limited to what could be inspected from the access door. Verification of Anchor welds consistent with SEWS C08R (MP2-SEIS.RPT), Calculation No. MP2CRANC and drawing No. 25203-29097 SH. 38 were confirmed.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-082

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*C08R was selected because anchorage was visible, not covered with fire foam in floor, as is the case with other Main Control Board panels.*

Evaluated by: *James Petrosky* Date: *09-11-2012*

Evaluated by: *Tom Steahr* Date: *09-11-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-083

**AWC #** MP2-WB-019 Status Y☒ N☐ U☐

Equipment ID No. M2RC02D4 Equip. Class 20

Equipment Description *ESAS Actuation Cabinet*

Location: Bldg. *CB* Floor El. *36'-6"* Room, Area *Control Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Consistent with SEWS RC02D4 (MP2-SEIS.RPT) which referenced SEWS RC02A1 for welded anchorage detail.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-083

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *Cabinets modifiec by MMOD M2-96569, anjacent cabinets bolted together to prevent seismic interaction. Implementation of MMOD resolved outlier issue from A-46 walkdowns.*

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James Petrosky* Date: *09-11-2012*

Evaluated by: *Tom Steahr* Date: *09-11-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-084

**AWC #** MP2-WB-019 Status Y☒ N☐ U☐

Equipment ID No. M2C01X Equip. Class 20

Equipment Description *ESF status light panel*

Location: Bldg. *CB* Floor El. *36'-6"* Room, Area *Control Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS C01X (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-084

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-16-2012*

Evaluated by: *William Price* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-086

**AWC #** MP2-WB-030 Status Y☒ N☐ U☐

Equipment ID No. M2C10 Equip. Class

Equipment Description *Fire Shutdown Panel (Spec 200)*

Location: Bldg. *TB* Floor El. *54'-6"* Room, Area *4160V SWGR (Upper)*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS C10 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-086**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Stephen Superson* Date: *08-17-2012*

Evaluated by: *William Price* Date: *08-17-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-087

**AWC #** MP2-WB-019 Status Y☒ N☐ U☐

Equipment ID No. M2C25A Equip. Class 20

Equipment Description *Control Room Vent Control Cabinets*

Location: Bldg. *CB* Floor El. *36'-6"* Room, Area *Control Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *Detailed anchorage verification not performed, however validation of visible attributes of anchorage was completed. Visual inspection performed through inspection holes in metal skirt provided in DCN DM2-00-1372-96.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-087

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Verified that cabinets C25A, C25B, C80 and C26 bolted together per MMOD M2-96569 to selve seismic interaction outlier identified in SEWS.*

Evaluated by: *James Petrosky* Date: *09-11-2012*

Evaluated by: *Tom Steahr* Date: *09-11-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-090

**AWC #** MP2-WB-019 Status Y☒ N☐ U☐

Equipment ID No. M2C80 Equip. Class 20

Equipment Description *Control room vent control cabinets*

Location: Bldg. *CB* Floor El. *36'-6"* Room, Area *Control Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS C80 (rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-090

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Stephen K. Superson Date: *08-16-2012*

Evaluated by: *William Price* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-091

**AWC #** MP2-WB-019 Status Y☒ N☐ U☐

Equipment ID No. M2RC30A-1 Equip. Class 20

Equipment Description *Spec-200 Cabinet RC-30A-1*

Location: Bldg. *CB* Floor El. *36'-6"* Room, Area *Behind C01R*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS RC30A-1 (Rev. 0).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-091

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Date: *08-17-2012*

Evaluated by: *William Price* Date: *08-17-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP-WD-SWEL-092

**AWC #** MP2-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M2T041 Equip. Class 20

Equipment Description *Diesel Generator H7B Relay and Terminal Box*

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *"B" D/G Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP-WD-SWEL-092**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

EQUIVALENT OPPOSITE TRAIN SSEL COMPONENT M2T040 WAS INSPECTED INTERNALLY DUE TO OPERATIONAL ACCESSIBILITY – NO DEGRADED INTERNAL CONDITIONS FOUND.

J. PETRESKY 10/18/12
T. STEVENS 10/18/12

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**Comments** (Additional pages may be added as necessary)

*Reference SEWS T041 (Rev. 0).*

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Evaluated by: *William Price* Date: *08-14-2012*

Evaluated by: *Stephen Superson* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-093

**AWC #** MP2-WB-024 Status Y☒ N☐ U☐

Equipment ID No. M2T3 Equip. Class 21

Equipment Description *RBCCW Surge Tank*

Location: Bldg. *EB* Floor El. *71'* Room, Area *RBCCW Surge Tank*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Reference SEWS-T3Rev. 0*
   *Drawing No. 25203-11134, Rev. 1*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2 -WD-SWEL-093

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Sombat Pornpraset* Date: *08-14-2012*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-094

**AWC #** MP2-WB-035 Status Y☒ N☐ U☐

Equipment ID No. M2T40 Equip. Class 21

Equipment Description *Condensate Storage TANK*

Location: Bldg. *YD* Floor El. *14'-6"* Room, Area *CST and HX AREA*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐
   *See SEWS T40 (Rev. 0).*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *No anchorage drawing available.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-094

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☐ N☐ U☐ N/A☒

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*3 of 18 lower anchor bolt chairs show minor light surface corrosion.*

*9 of 18 upper anchor chairs accessible for inspection without scaffolding. Upper chairs coated with black epoxy on lower portion of chair and anchor bolts.*

Evaluated by: *Thomas Steahr* Date: *08-07-2012*

Evaluated by: *Stephen Superson* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-095

**AWC #** MP2-WB-034 Status Y☒ N☐ U☐

Equipment ID No. M2T41 Equip. Class 21

Equipment Description *REFUELING WATER STORAGE TANK*

Location: Bldg. *YD* Floor El. *14'-6"* Room, Area *RWST and HX AREA*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☒ U☐ N/A☐
   *Five anchors exhibited a 10-15% reduction in cross-sectional area due to active corrosion. CR484025 issued to track correction of corroded anchor bolts. Given the small reduction of area and the large number of anchor bolts (96) versus number of bolts of concern (5), the tank anchorage is considered acceptable. In addition, prior CR-08-08209 had been issued to disposition previously identified bolting corrosion*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Reference SEWS T41 (Rev. 0)*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-095

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☐ N☐ U☐ N/A☒

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *Thomas Steahr* Date: *08-06-2012*

Evaluated by: *Stephen F. Superson* Date: *08-06-2012*

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-096**

**AWC # MP2-WB-016** Status Y☒ N☐ U☐

Equipment ID No. M2T48B Equip. Class 21

Equipment Description *"B" Diesel Engine Fuel Oil Supply Tank*

Location: Bldg. *AB* Floor El. *38'-6"* Room, Area *DG Day Tank*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference SEWS for T48B (Rev. 0)* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-096**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*Minor cracks in concrete slabs, will not impact the seismic adequacy of the tank.*

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Evaluated by: *William Price* Date: *08-13-2012*

Evaluated by: *Stephen F. Superson* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-097

**AWC #** MP2-WB-028 Status Y☒ N☐ U☐

Equipment ID No. M2X169A Equip. Class 21

Equipment Description *"A" DC Switchgear Room Chiller (Vital Chiller) Condenser*

Location: Bldg. *TB* Floor El. *14'-6"* Room, Area *Chillers Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *In accordance with 25023-29577 and Calculation 82-209-329GD.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-097**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *Jim McKinney* James Mc Kinney Date: *08-09-2012*

Evaluated by: *William Price* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-098

**AWC #** MP2-WB-010 Status Y☒ N☐ U☐

Equipment ID No. M2X18A Equip. Class *21*

Equipment Description *'A' RBCCW Heat Exchanger*

Location: Bldg. *AB* Floor El. *-25'-6"* Room, Area *RBCCW HX*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Anchorage is consistent with SEWS M2X18A sheets 1-6.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP2-WD-SWEL-098**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Instrument air line in overhead is small bore, adequately supported, does not create potentially adverse interactions.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *Ladders and equipment box next to heat exchanger are restrained per OA8. Temporary green tagged scaffold in place is adequately braced and there is no adverse interaction.*

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-099

**AWC #** MP2-WB-004 Status Y☒ N☐ U☐

Equipment ID No. M2X20A Equip. Class *21*

Equipment Description *'A' Spent Fuel Pool Cooling Heat Exchanger*

Location: Bldg. *AB* Floor El. *-5'-6"* Room, Area *SFP HX Area*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Anchorage is consistent with SEWS sheets 1-9.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-099

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Overhead lighting fixtures are hung by ~1" diameter conduit from ceiling, light and fixtures have no significant weight and have no adverse interaction with heat exchanger.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *Ladders stored near tool crib door are secured per OA8 and will have no adverse interaction with heat exchanger.*

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*References: SEWS ID X20A (Rev. 1) Sheets 1-9*
*Drawing 25203-27018*

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Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-100

**AWC #** MP2-WB-018 Status Y☒ N☐ U☐

Equipment ID No. M22X23A Equip. Class 21

Equipment Description *"A" Shutdown Cooling Heat Exchanger*

Location: Bldg. *AB* Floor El. *-45'-6"* Room, Area *"A" Safeguards Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   *Very mild surface corrosion noted which does not adversely affect the function of the anchorage.*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Heat exchanger is supported by pads at one end with 1" diameter anchor bolts. The other end of tank is on rollers. The anchorage is addressed on SEWS X23A Rev. 0 and Calculation MP20R Section 5.3. Anchorage was inspected and is consistent.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP2-WD-SWEL-100

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light fixtures supported by conduit have no adverse affect on the heat exchanger.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Calculation Vectra MP202 Rev. 0 Section 5.3*
*SEWS X23A Rev. 0 SH1-3*
*Drawing 25203-27020*
*Drawing 25203-11085*

Evaluated by: *James Petrosky* Date: *08-09-2012*

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

# Appendix D

# Area Walk-by Checklists (AWC)

(72 pages)

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-001

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *"B" EDG Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC # MP2-WB-001**

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-14-2012*

Evaluated by: *Stephen Superson* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-002

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *-5'* Room, Area *BAST AREA*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-002

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Tom Steahr* Date: *08-09-2012*

Evaluated by: *Stephen Superson* Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-003

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *-5'* Room, Area *East PEN*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-003

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC # MP2-WB-004**

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *-5'* Room, Area *SFP Cooling Area*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Overhead lighting fixtures are hung by approximately 1" diameter conduit from ceiling. Lights and fixtures have no significant weight and have no adverse interaction with equipment in the area*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-004

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Ladders stored near tool crib door (across from SFP electrical cabinet) secured in two places per Procedure OA-8.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐
   *Station air lines in overhead are small bore (2" and smaller), well supported and do not present an adverse interaction with equipment in the area.*

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *L.Jack DiLuna* Date: *08-07-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-005

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *-5'* Room, Area *WEST PEN*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-005

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-006

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *A Battery Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-006

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-007

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *East DC Switchgear*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-007

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-008

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *Hallway*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-008

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC # MP2-WB-009**

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *14'-6"* Room, Area *B51 and B61Rooms*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐
   *Seismic Cable Trays.*

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *No adverse interactions.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-009

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Although Physically separate, two rooms for MCC B51 and MCC B61 (Aux Bldg. 14'6") were included in this area walkby.*

Evaluated by: *James Petrosky* Date: *09-05-2012*

Evaluated by: *Tom Steahr* Date: *09-05-2012*

## Area Walk-By Checklist (AWC)

**AWC # MP2-WB-010**

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *-25'-6"* Room, Area *RBCCW HX Area*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Overhead Lighting Fixtures are hung by conduit or chain from ceiling, lights and fixtures have no significant weight and have no adverse interaction with equipment in the area.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-010

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

   *Area adjacent to RBCCW Pump C is used for storage of scaffold materials. It was noted that some materials are loosely placed on the floor and not restrained per Procedure OA 8. No adverse seismic interaction with the equipment was noted. In other areas ladders and storage boxes are restrained per OA 8. Noted yellow tagged scaffold #5178 over Pump C, scaffold is adequately braced and will not adversely impact any equipment.*

   *Feedback was provided to laborer craft, who responded that all scaffold material would be restrained or removed.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *L.Jack DiLuna* Date: *08-07-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-011

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *-25'-6"* Room, Area *CHS Pump Area*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-011

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area walk-by was conducted at the "A" charging pump assembly.*

Evaluated by: *Thomas Steahr* Thomas O. Steahr Date: *08-09-2012*

Evaluated by: *Stephen F. Superson* Stephen F. Superson Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC # MP2-WB-012**

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *-25'-6"* Room, Area *Degasifier Area*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-012

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area walk-by was conducted at the "A' waste gas compressor assembly.*

Evaluated by: *Thomas Steahr* Date: *08-09-2012*

Evaluated by: *Stephen F. Superson* Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-013

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *Control Room H&V Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-013

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-15-2012*

Evaluated by: *Thomas Steahr* Date: *08-15-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-014

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *East 480v Switchgear Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-014

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Date: *08-17-2012*

Evaluated by: *William Price* Date: *08-17-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-015

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *36'-6"* Room, Area *West 480v Switchgear Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-015

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Expansion joint/fire barrier reviewed, reference Tech. Eval. No. FP-EV-99-0002 Rev. 2 Attachment 2 Page 6,22.*

NOTE: A SUPPLEMENTAL AREA WALKBY CONFIRMED THE PRESENCE OF NON-SR BLOCK WALL 7.8 IN THE WEST 480V SWITCHGEAR ROOM ADJACENT TO INV-5. INV-5 IS NON-SAFETY AND NON RISK SIGNIFICANT. ALL BLOCK WALLS IN THE ROOM WHICH ARE IN THE VICINITY OF SR EQUIPMENT ARE SAFETY RELATED (REF: 25203-59031 REV 1 CEN 104I REV 6 ATT 7) J. PETROSKY 11-5-12

T. STEHLIK 11-5-12

Evaluated by: *William Price* Date: *08-10-2012*

Evaluated by: *Stephen Superson* Date: *08-10-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-016

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *38'-6"* Room, Area *DG DAY Tank Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-016

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Small cracks in concrete floor, not structurally significant (MP2-WD-SWEL-096). .*

Evaluated by: *William Price* Date: *08-13-2012*

Evaluated by: *Stephen F. Superson* Date: *08-13-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-017

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *38'-6"* Room, Area *Main Exhaust Fan Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-017

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Date: *08-17-2012*

Evaluated by: *William Price* Date: *08-17-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-018

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *-45'-6"* Room, Area *"A" Safeguards Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Light fixtures in the room are generally supported from the ceiling by conduit and no potential adverse interactions with equipment were noted.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC # MP2-WB-018**

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *I scaffold was noted in the room which was green-tagged and adequately braced to avoid any adverse seismic interaction. Housekeeping in room was very good. Minor water intrusion in one area which was not adversely effecting components.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *Jim Petrosky* Date: *08-09-2012*

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-019

Status Y☒ N☐ U☐

Location: Bldg. *CB* Floor El. *36'-6"* Room, Area *Control Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-019

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Housekeeping was good, no interactions identified.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Walkdown in outer perimeter of Control Room(Reactor Protection NI Area, HVAC cabinet, SPEC 200 cabinets, ESAS cabinets, Rear of Main Control Boards).*

Evaluated by: *James Petrosky* Date: *09-11-2012*

Evaluated by: *Tom Steahr* Date: *09-11-12*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-020

Status Y☒ N☐ U☐

Location: Bldg. *CE* Floor El. *14'-6"* Room, Area _____

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-020

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Walk-by conducted in annulus CTMT 14'-6" in area near 2-SI-614 (NE side) and C172 (West side) no adverse conditions or interactions found.*

Evaluated by: *James McKinney* James McKinney Date: *08-16-2012*

Evaluated by: *James Petrosky* Date: *08-16-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-021

Status Y☒ N☐ U☐

Location: Bldg. *CE* Floor El. *38'-6"* Room, Area *Pressurizer cubicle*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-021

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Walk-down was performed from entry platform on east side of pressurizer blockhouse. No interactions or adverse conditions were found.*

Evaluated by: *James McKinney* James Mc Kinney Date: *08-16-2012*

Evaluated by: *James Petrosky* Date: *08-16-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-022

Status Y☒ N☐ U☐

Location: Bldg. *CW* Floor El. *14'6"* Room, Area *Intake Structure*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-022

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☐ N☒ U☐ N/A☐
   *Service Water Pump motor protection tank (for flood protection) not restrained to prevent tipping in accordance with procedure OA-8 requirements – CR 484290 written to document issue. No additional interactions noted.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

Comments (Additional pages may be added as necessary)

*None*

Evaluated by: *Thomas Steahr* Date: *8/7/12*

Evaluated by: *Stephen Superson* Date: *8/7/12*

## Area Walk-By Checklist (AWC)

**AWC # MP2-WB-023**

Status Y☒ N☐ U☐

Location: Bldg. *EB* Floor El. *60'* Room, Area *WEST PEN ROOM*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-023

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-024

Status Y☒ N☐ U☐

Location: Bldg. *EB* Floor El. *71'* Room, Area *East PEN RBCCW Surge*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-024

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-025

Status Y☒ N☐ U☐

Location: Bldg. *EB* Floor El. *38-6"'* Room, Area *WEST PEN ROOM*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-025

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-14-2012*

Evaluated by: *Thomas Steahr* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-026

Status Y☒ N☐ U☐

Location: Bldg. *TB* Floor El. *45'* Room, Area *East & West Cable Vault*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-026

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-15-2012*

Evaluated by: *Stephen Superson* Date: *08-15-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-027

Status Y☒ N☐ U☐

Location: Bldg. *TB* Floor El. *1'-6"* Room, Area *AFW Rooms*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-027

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

   *During the area walk-by, an 8" floor drain header and a 4" floor drain lateral were noted in the overhead of the AFW rooms. All of this overhead floor drain piping contains Victaulic couplings. These floor drains are normally empty, but could be filled in a flooding condition occurred in the area above. The structural integrity (seismic interaction) of this floor drain piping has been previously qualified in DCN DM2-00-1888-98, Technical Evaluation M2-EV-970111, Rev. 0, DCN DM2-5-0661-96 and Technical Evaluation M2-EV-970040, Rev. 0. Based on these previous evaluations, this area is considered acceptable from potential flooding perspective.*

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *William Price* Date: *08-06-2012*

Evaluated by: *James McKinney* Date: *08-06-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-028

Status Y☒ N☐ U☐

Location: Bldg. *TB* Floor El. *14'-6"* Room, Area *Misc.*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-028

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐
   *Fire protection line at Column E-19 is not laterally supported and could impact the column in a seismic event. However, the vital chilled water pumps nearby are resistant to spray and would not be rendered inoperable if they were to be sprayed by a fire suppression leak. In addition, the column that the suppression system may impact is fire coated. This coating would provide some cushion to mitigate any impact. Refer to CR484379.*

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *William Price* Date: *08-09-2012*

Evaluated by: *James McKinney* Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-029

Status Y☒ N☐ U☐

Location: Bldg. *TB* Floor El. *31'6"* Room, Area *Lower 4160V SWGR Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-029

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*No seismic design or interaction issues found. The detailed seismic inspection of SWEL-014, "4.16kV Bus 24C" was deferred due to plant operational needs and requirement for safety tagging to conduct internal cabinet inspection.*

Evaluated by: *Thomas Steahr* Date: *9/6/12*

Evaluated by: *James Petrosky* Date: *9/6/12*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-030

Status Y☒ N☐ U☐

Location: Bldg. *TB* Floor El. *54'-6"* Room, Area *Upper 4.16kv Swgr.*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-030

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area walk-by conducted at upper 4160V switchgear room cooling fan assembly M2F133.*

Evaluated by: *William Price* Date: *08-15-2012*

Evaluated by: *Stephen Superson* Date: *08-15-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-031

Status Y☒ N☐ U☐

Location: Bldg. *TB* Floor El. *36'-6"* Room, Area *East 480v Swgr.*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-031

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *William Price* Date: *08-15-2012*

Evaluated by: *Stephen Superson* Date: *08-15-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-032

Status Y☒ N☐ U☐

Location: Bldg. *TB* Floor El. *54'-6"* Room, Area *MISC*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-032

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area Walk-By conducted at the Chilled Water Surge Tank, M2T98.*

Evaluated by: *Stephen Superson* Date: *08-14-2012*

Evaluated by: *William Price* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-033

Status Y☒ N☐ U☐

Location: Bldg. *TB* Floor El. *54'-6"* Room, Area *6.9kV SWGR Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-033

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area Walk-By conducted at the East 4160 SWGR Room Supply Fan, M2F52.*

Evaluated by: *Stephen Superson* Date: *08-14-2012*

Evaluated by: *William Price* Date: *08-15-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-034

Status Y☒ N☐ U☐

Location: Bldg. *YARD* Floor El. *14'-6"* Room, Area *RWST Area*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Lightpost located about 8' from tank. Post is considered seismically acceptable.*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-034

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☐ N☐ U☐ N/A☒

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☐ N☐ U☐ N/A☒

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas A. Steahr* Date: *08-07-2012*

Evaluated by: *Stephan F. Superson* Date: *08-07-2012*

## Area Walk-By Checklist (AWC)

**AWC # MP2-WB-035**

Status Y☒ N☐ U☐

Location: Bldg. *Yard* Floor El. *14'-6"* Room, Area *CST Area*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *East side of tank contains supports from RSST/NSST cable trays. Supports are seismically analyzed.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☐ N☐ U☐ N/A☒

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-035

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☐ N☐ U☐ N/A☒

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas A. Steahr* Date: *08-07-2012*

Evaluated by: *Stephen F. Superson* Date: *08-07-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-036

Status Y☒ N☐ U☐

Location: Bldg. *CE* Floor El. *-3'-6"* Room, Area *F14C area*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP2-WB-036

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area surrounding F14C in the -3' containment annulus was uncluttered and free of interactions.*

Evaluated by: *James McKinney* James McKinney Date: *08-16-2012*

Evaluated by: *James Petrosky* Date: *08-16-2012*

# Dominion Nuclear Connecticut, Inc.
# Millstone Power Station Unit 3

## Seismic Walkdown Summary Report

## Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic

November, 2012

# Executive Summary

On March 12, 2012, the U.S. Nuclear Regulatory Commission (NRC) staff issued requests for information pursuant to 10 CFR 50.54(f) related to the Near Term Task Force (NTTF) recommendations. Enclosure 3 of the NRCs 50.54(f) letter requested utilities to provide information related to NTTF Recommendation 2.3: Seismic, as amended by the Staff Requirements Memoranda (SRM) associated with SECY-11-0124 and SECY-11-0137. The nuclear power industry and the NRC cooperatively developed guidelines and procedures to perform the seismic walkdowns. The resulting EPRI Report No. 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic* (EPRI 1025286) provides guidance and procedures for performing the seismic walkdowns.

Dominion followed the EPRI 1025286 guidance in developing the Seismic Walkdown Equipment List (SWEL), performing the Millstone Power Station (MPS) Unit 3 seismic walkdowns, and developing the submittal report. Seismic walkdowns of accessible items have been completed. Some items included on the SWEL were not sufficiently accessible to complete the walkdown inspection. Walkdowns for these items are planned to be completed by the end of the next scheduled refueling outage (Spring 2013). A revised Summary Report will be issued following completion of the seismic walkdowns.

By completing and documenting the requested seismic walkdowns for MPS Unit 3, Dominion has met the objectives of the NRC request for information related to NTTF Recommendation 2.3: Seismic. Potentially adverse conditions identified during the completed seismic walkdowns and area walk-bys were submitted as Condition Reports (CRs) in the MPS Unit 3 corrective action program (CAP). To date, no significant issues that challenged the MPS Unit 3 seismic licensing or design basis have been identified as a result of the walkdowns.

# Millstone Power Station Unit 3
# Seismic Walkdown Summary Report

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# Background

Following the accident at the Fukushima Daiichi nuclear power plant resulting from the March 11, 2011, Great Tohoku Earthquake and subsequent tsunami, the Nuclear Regulatory Commission (NRC) established the Near Term Task Force (NTTF) in response to Commission direction. The NTTF was tasked with conducting a review of NRC regulations and processes and determining if the NRC should make additional improvements.

A set of recommendations made by the task force was included in a report provided to the Commission. Although the NRC concluded that continued plant operation did not pose an imminent risk to public health and safety, the Commission directed the NRC staff (in the Staff Requirements Memorandum (SRM) to SECY-11-0093) to determine those recommendations that should be implemented without unnecessary delay. In SECY-11-0124, the NRC staff identified the NTTF recommendations that should be implemented without delay, including the development of information requests to be made under 10 CFR 50.54(f).

The NRC issued the requests for information pursuant to 10 CFR 50.54(f) on March 12, 2012 related to the following NTTF recommendations (Reference 1):

- Recommendation 2.1: Seismic
- Recommendation 2.1: Flooding
- Recommendation 2.3: Seismic
- Recommendation 2.3: Flooding
- Recommendation 9.3: Emergency Preparedness

Enclosure 3 of the NRC's 50.54(f) letter addressed providing information related to NTTF Recommendation 2.3: Seismic, as amended by the SRMs associated with SECY-11-0124 and SECY-11-0137. Enclosure 3 requested that licensees:

1. Develop a methodology and acceptance criteria for seismic walkdowns to be endorsed by the NRC staff,
2. Perform seismic walkdowns using the NRC-endorsed walkdown methodology,
3. Identify and address degraded, nonconforming, or unanalyzed conditions through a corrective action program, and
4. Verify the adequacy of licensee monitoring and maintenance procedures.

The nuclear power industry and the NRC agreed to cooperate in the development of guidelines and procedures to perform the seismic walkdowns. The resulting EPRI Report No. 1025286, *Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic* (EPRI 1025286) (Reference 2) provides guidance and procedures for performing the seismic walkdowns. The guidance addresses selection of personnel, selection of a sample of structures, systems, and components (SSCs) that represent a diversity of component types and ensures inclusion of components from critical systems and functions as described in the NRCs 50.54(f) letter, conduct of the walkdowns, evaluations against the plant seismic licensing basis, and reporting requirements. EPRI 1025286 also includes checklists to be used by the seismic walkdown engineers for seismic evaluations.

The guidance contained in the EPRI 1025286 was developed to meet NRC's objectives, and in a letter dated May 31, 2012 (Reference 3), the NRC confirmed that the EPRI 1025286 guidance directs licensees to perform walkdowns in a manner that will address Requested Information Items 1.a through 1.g in the 50.54(f) letter. The NRC staff also confirmed that Section 8, "Submittal Report," of the EPRI 1025286 guidance outlines the appropriate information to be submitted in response to Requested Information Items 2.a through 2.f. of Enclosure 3 of the 50.54(f) letter.

Dominion used the EPRI 1025286 guidance in developing and performing the seismic walkdowns at Millstone Power Station (MPS) Unit 3 in response to the NRC's 50.54(f) letter. In addition, Dominion followed the EPRI 1025286 Section 8 guidance for the development of this report.

## 1.0 Seismic Licensing Basis Summary

The seismic licensing basis for MPS Unit 3 is documented in the MPS Unit 3 FSAR, Chapter 3, Design of Structures, Components, Equipment, and Systems (Reference 4). Seismic Category I equipment has been classified in accordance with Regulatory Guide 1.29, Rev. 3, Seismic Design Classification.

The FSAR describes the safe shutdown earthquake (SSE) loads and their application to structures and components. The SSE is defined as the maximum vibratory ground motion at the plant site that can reasonably be predicted from geologic and seismic evidence. The operating basis earthquake (OBE) is that earthquake which, considering the local geology and seismology, can be reasonably expected to occur during the plant life. A SSE of 0.17g and a 1/2 SSE value of 0.09g in the horizontal direction and two-thirds of these values in the vertical direction, input at the bedrock surface, have been used as the design bases for seismic loading. In accordance with 10 CFR 100, Appendix A, the operating basis earthquake is taken to be at least one half of the SSE, or 0.09g.

The design for the SSE is intended to assure that the integrity of the reactor coolant pressure boundary is not compromised, that the capability to shut down the reactor and maintain it in a safe condition is not compromised, and that the capability to prevent or mitigate the consequences of accidents which could result in potential offsite exposures comparable to the guideline exposures of 10 CFR 100 is not compromised. For the OBE loading condition, the reactor coolant system is designed to be capable of continued safe operation.

Safety Class 1 and 2 equipment are designed to withstand the forces of the OBE and SSE. For normal conditions plus OBE loadings, the resulting stresses are limited to allowable working stresses as defined in the ASME B&PV Code, Section III, Appendix XVII, for normal and upset conditions. For normal conditions plus SSE loadings, the stresses are limited to within the allowable values given by Subarticle NA 2110 for critical parts of the equipment which are required to maintain the capability of the equipment to perform its safety function. Permanent deformation is allowed for the loading combination which includes the SSE to the extent that there is no loss of any safety function.

Equipment and components that use seismic testing as qualification basis conform to applicable industry standards, such as IEEE 344-1975. Qualification of Class 1E electrical equipment conforms to IEEE 344-1975. The FSAR sections most applicable to equipment qualification are:

- 3.7N3, Seismic Subsystem Analyses (NSSS Vendor supplied equipment)
- 3.7B3, Seismic Subsystem Analyses (non-NSSS Vendor supplied equipment)
- 3.10, Seismic Qualification of Seismic Category 1 Instrumentation and Electrical Equipment

Nuclear steam supply system (NSSS) vendor qualification methods approved by the NRC are discussed further in FSAR Section 5.4.1. Seismic adequacy of non-NSSS Seismic Category 1 equipment is documented using Static Analysis, Dynamic Testing, and Testing including combinations of methods. The EPRI STERI process (Seismic Technical Evaluation of Replacement Items TR-104871) may be used to demonstrate that seismically rugged or insensitive replacement items exhibit seismic performance equivalent to original items.

## 2.0 Personnel Qualifications Summary

A summary of the requirements, as outlined in the EPRI 1025286 (Reference 2), for the different seismic walkdown activities is provided as follows.

### 2.1 Equipment Selection

Personnel responsible for equipment selection should have knowledge of plant operations, plant documentation, and associated SSCs. They should have the capability to select a broad distribution of SSCs for the Seismic Walkdown Equipment List (SWEL). The Equipment Selection Personnel should also have knowledge of the IPEEE program.

Equipment Selection Personnel: James A. Petrosky, supported by licensed plant operators, and design and system engineering personnel.

### 2.2 Seismic Walkdowns

The seismic walkdown engineers (SWEs) should have a degree in mechanical or civil/structural engineering, or equivalent; and experience in seismic engineering as it applies to nuclear power plants. In addition, the SWEs must successfully complete one of the following two training courses: NTTF 2.3 Seismic Walkdown Training Course or SQUG Walkdown Training Course.

SWEs: William Price, Louis J. DiLuna Jr., James A. Petrosky, James McKinney, Stephen F. Superson, Sombat Pornprasert, and Thomas Steahr.

### 2.3 Licensing Basis Evaluations

All potentially adverse seismic conditions were documented and evaluated within the corrective action program (CAP); no licensing basis evaluations of potentially adverse seismic conditions were performed outside of the corrective action program defined by plant procedures.

### 2.4 IPEEE Review

Reviewers should have adequate engineering experience to review and understand the results of the IPEEE program.

IPEEE Reviewer: James A. Petrosky

### 2.5 Peer Review

The peer review team should consist of a minimum of two individuals, one of whom has seismic engineering experience as it applies to nuclear power plants.

Peer Reviewers: Marc Hotchkiss and Leo Nadeau.

Appendix A provides the qualifications of the personnel involved in performing the seismic walkdown activities at MPS Unit 3.

# 3.0 SSC Selection

## 3.1 Purpose

This section describes the process used to develop the seismic walkdown equipment list (SWEL), and documents the resulting SWEL and Area Walk-By list, in response to NRC's 10 CFR 50.54(f) letter dated March 12, 2012 (Reference 1). The SWEL was developed using the guidance provided in EPRI 1025286 (Reference 2) and defines the scope of the seismic walkdowns.

## 3.2 Methodology

EPRI 1025286, Section 3, *Selection of SSCs*, describes the process used to identify items to be included on a SWEL. In general, the SWEL is comprised of two groups of items. The first is a sample of Seismic Category I components that support achieving safe shutdown and the other is a sample of components associated with the spent fuel pool. These lists are designated as SWEL 1 and SWEL 2, respectively. SWEL 1 and SWEL 2 are combined to form the SWEL, which defines the overall scope of equipment used as input to the seismic walkdowns. Additional information regarding the process used to develop the SWEL is provided below.

SWEL 1 Development

Selection of SWEL 1 components was performed by screening the MPS Unit 3 Seismic Category I equipment in a manner consistent with the equipment selection approach described in EPRI 1025286. The MPS Unit 3 Technical Requirements Manual (TRM) Section 7.6 (Reference 5), MPS Unit 3 Safety Functional Requirements Manual (SFRM) Section 4.3 (Reference 6), and MPS Unit 3 Master Equipment List Database were used to identify the frontline and support systems supporting Safety Grade Cold Shutdown (described in FSAR Section 5.4.7.2.3.5, Reference 4). MPS Unit 3 is licensed as a Safety Grade Cold Shutdown (SGCS) plant. The Seismic Category I frontline and support systems are those that support the following five safety functions:

- Reactor reactivity control
- Reactor coolant pressure control
- Reactor coolant inventory control
- Decay heat removal
- Containment function

Seismic Category I equipment within the frontline and support systems that support the above listed safety functions were identified. This list is termed Base List 1 in EPRI 1025286.

The SWEL 1 list was determined by applying the following five sample selection attributes, as applicable, defined in EPRI 1025286, to Base List 1. The required sample size for SWEL 1 was at between 90 and 120 items. The method of application for each attribute is summarized below:

1. A variety of types of systems. Sample items were selected to represent a broad range of frontline and support systems.
2. Major new and replacement equipment (since the completion of IPEEE/USI A-46 evaluations). This attribute is not applicable because no previous seismic walkdowns

or evaluations were performed at MPS Unit 3 in response to USI A-46 or IPEEE requirements.

3. A variety of types of equipment. At least one item from each of the classes of equipment listed in EPRI 1025286, Appendix B, *Classes of Equipment* was included on SWEL 1 to provide a sample selection of a variety of equipment types. Where there was no seismic category I items for a specific class of equipment, no items in that equipment class were selected for SWEL 1.
4. A variety of environments. Sample items were selected from different locations in the plant to include various environments (hot, cold, dry, wet) and inside and outside installations.
5. Equipment enhanced due to vulnerabilities identified during the IPEEE program. The MPS Unit 3 IPEEE documentation was reviewed to determine equipment that had been modified or otherwise enhanced to reduce IPEEE vulnerabilities.

For each item on SWEL 1, the applicable supported safety function(s) are identified as a confirmation that the five safety functions are adequately represented. In addition, risk significant items on the SWEL 1 list are identified as confirmation that risk insights are adequately considered in the development of SWEL 1.

SWEL 2 Development

SWEL 2 was developed based on a review of systems associated with the spent fuel pool (SFP) that are Seismic Category I or components whose failure could result in a rapid drain-down of the water level in the SFP to less than ten feet above the fuel.

For Seismic Category I systems associated with the SFP, a sample of components was identified using selection criteria similar to that described for SWEL 1.

Any components whose failure could result in rapid drain-down of the SFP were to be identified and evaluated for addition to SWEL 2. Identified components that met the criteria for inclusion in the seismic walkdowns were to be added to SWEL 2. If no component failures were identified that could result in rapid drain-down of the SFP, no components were added to SWEL 2, and the basis for this conclusion was described.

SWEL

The SWEL was developed by combining the items on SWEL 1 and SWEL 2.

The items on the SWEL were reviewed to determine the population of items with anchorage, and at least 50% of those items were selected for configuration verification of the installed anchorage during the associated seismic walkdown.

The SWEL serves as the input to the seismic walkdowns conducted in accordance with EPRI 1025286 Section 4, *Seismic Walkdowns and Area Walk-Bys.* A walk-by area is defined as the room containing SWEL item(s), or in the case of a large open space, the area within a 35 foot radius around a SWEL item. Walk-by areas are defined to ensure that all items on the SWEL are included within a walk-by area.

### 3.3 Results

The methodology described in Section 3.2 was applied to develop the SWEL and the Area Walk-by list. The results of the implementations of this methodology are provided below.

The SWEL was developed by personnel meeting the qualifications for equipment selection personnel described in Section 2.1. Qualifications of personnel involved in the development of the SWEL are identified in Appendix A.

SWEL 1

The methodology described in Section 3.2 was utilized to develop SWEL 1. Seismic Category I equipment within the frontline and support systems that support the five safety functions listed in Section 3.2 were identified and are listed in Appendix B.1. This list is termed Base List 1 in EPRI 1025286.

The five sample selection attributes, described in Section 3.2, were then applied to Base List 1. The results are summarized for each attribute below:

1. A variety of types of systems. Sample items were selected to represent a broad range of frontline and support systems. The number of selected items associated with each of the represented systems is provided in Appendix B.2 in the SWEL System Summary Table.
2. Major new and replacement equipment (since the completion of IPEEE/USI A-46 evaluations). This attribute is not applicable because no previous seismic walkdowns or evaluations were performed at MPS Unit 3 in response to USI A-46 or IPEEE requirements.
3. A variety of types of equipment. At least one item from each of the classes of equipment listed in EPRI 1025286, Appendix B: *Classes of Equipment* was included in SWEL 1 to provide a sample selection of a variety of equipment types. The number of items from each of the equipment classes is identified in Appendix B.2 in the SWEL Equipment Classes Summary Table. As described in Section 3.2, where there was no seismic category I equipment on Base List 1 for a specific class of equipment, no items in that equipment class were selected for SWEL 1. There were no items for equipment classes 12 and 13 on Base List 1, and the equipment class 19 items (temperature sensors) are inspected as part of other component assemblies. Therefore, no equipment from these three equipment classes was included in SWEL 1.
4. A variety of environments. Sample items were selected from different locations in the plant to include various environments (hot, cold, dry, wet). The installed location is identified on the SWEL in Appendix B.2 for each item, which provides an indication of the operating environment for the item.
5. Equipment enhanced due to vulnerabilities identified during the IPEEE program. Based on a review of IPEEE documentation (References 7 and 8), no equipment enhancements were required due to IPEEE seismic vulnerabilities.

The resulting sample of equipment for the SWEL 1 list was 98 items, which are provided in Appendix B.2. For each item on the list, the applicable supported safety function(s), listed below, were indicated.

- Reactor reactivity control
- Reactor coolant pressure control
- Reactor coolant inventory control
- Decay heat removal
- Containment function

SWEL 2

SWEL 2 was developed based on a review of systems associated with the spent fuel pool (SFP) that are Seismic Category I or components whose failure could result in a rapid drain-down of the water in the SFP to less than ten feet above the top of the fuel. The review was supported by a licensed operator and knowledgeable system engineers.

The following Seismic Category I system associated with the SFP was identified:

- Spent Fuel Pool Cooling and Purification System

Base List 2, resulting from applying EPRI 1025286 Figure 1-2 screening criteria 1 and 2 to the Spent Fuel Pool Cooling and Purification System equipment list, is provided in Appendix B.2. The following components have been identified as the SWEL 2 list using the walkdown item sample selection criteria consistent with the guidance in EPRI 1025286:

- M33SFC*P1A Spent Fuel Pool Cooling Pump A
- M33SFC*E1A Spent Fuel Pool Heat Exchanger A

Rapid Drain-down

The Spent Fuel Pool Cooling and Purification system piping penetrates the SFP liner at an elevation just below the normal operating level of 49' 10". The piping configuration precludes SFP drain down by the use of piping anti-siphon features at elevations 45', 48', and 50'8". The top of the fuel assemblies is at 25' 9" elevation. FSAR Section 9.1 states that the MPS Unit 3 SFP configuration of piping elevations and anti-siphoning devices prevents siphoning of fuel pool water.

Therefore, there are no components that could, upon failure, result in rapid drain-down of the SFP water level to below ten feet above the top of the fuel and no components have been added to SWEL 2 for this criterion.

SWEL

The SWEL was developed by combining the items on SWEL 1 and SWEL 2. The SWEL is provided in Appendix B.2. All items on the list are from SWEL 1 except those items indicated by footnote as originating from SWEL 2.

The items on the SWEL were reviewed to identify those that included anchorage (i.e., items that were not line-mounted equipment, such as valves). 63 items of the 68 items that included anchorage (92%) were selected for confirmation that the as-installed equipment anchorage is consistent with plant documentation of the anchorage design. The anchorage items selected for confirmation are indicated by a note on the SWEL.

In addition, risk significant items on SWEL 1 were identified. This information was reviewed by the PRA subject matter expert as confirmation that risk insights were adequately considered in the development of the SWEL. As a result, 62 of the 100 items on the SWEL were identified as being risk significant.

This list is the input to the seismic walkdowns conducted in accordance with EPRI 1025286, Section 4 *Seismic Walkdowns and Area Walk-Bys.* Walk-by areas were identified to include all of the items on the SWEL and are listed in Appendix B.3.

### 3.4 Inaccessible Items

In the process of selecting SSCs to be included on the SWEL, items that were accessible and have visible anchorage were selected wherever possible. However, there were 24 items included on the SWEL that were not sufficiently accessible to complete the walkdown inspection. These items are listed in Table 3-1 below and indicated by a footnote on the SWEL (Appendix B.2). The walkdowns for these items are planned to be completed by the end of the next scheduled refueling outage (Spring 2013).

**Table 3-1: Deferred Walkdown Items**

| ID Number | Description | Location | Inspection Completion Schedule |
|---|---|---|---|
| M332Y | 480 VOLT LOAD CENTER 32Y | Auxiliary Building | Spring 2013 RFO |
| M33CHS*RV8121 | SEAL RETURN LINE INLET CONTAINMENT RELIEF | Containment | Spring 2013 RFO |
| M33RCS*PCV455A | POWER OPERATED RELIEF VALVE | Containment | Spring 2013 RFO |
| M33CHS*MV8112 | SEAL WATER RETURN CTMT ISOL | Containment | Spring 2013 RFO |
| M33SIL*MV8808A | SI ACCUMULATOR TANK 1 OUTLET ISOL | Containment | Spring 2013 RFO |
| M332-1R[1] | 480V AC MOTOR CONTROL CENTER | Auxiliary Building | Spring 2013 RFO |
| M332-1U[1] | 480V MCC 32-1U (EMERG) EMERGENCY GENERATOR | 'B' Diesel Generator Room | Spring 2013 RFO |
| M332-2R[1] | 480 VOLT MCC 32-2R(EMERG) ROD CONTROL | Auxiliary Building | Spring 2013 RFO |
| M332-1W[1] | 480 VOLT MCC 32-1W(EMERG) AUX BLDG. | Auxiliary Building | Spring 2013 RFO |
| M332-4T[1] | 480V MCC | ESF Building | Spring 2013 RFO |
| M332-5T[1] | 480 VOLT MCC 32-5T(EMERG) CIRC WATER PUMP HOUSE | Circulating Water Pump House | Spring 2013 RFO |
| M332-2U[1] | 480 VOLT MCC32-2U | Auxiliary Building | Spring 2013 RFO |
| M33BYS*PNL2[1] | BATTERY BUS 2 (301B-1) | Control Building | Spring 2013 RFO |
| M33BYS*PNL1[1] | BATTERY BUS 1 (301A-1) | Control Building | Spring 2013 RFO |
| M33VBA*XRC-2[1] | VIAC-2 ALTERNATE SOURCE TRANSFORMER | Control Building | Spring 2013 RFO |
| M33LAC*EXL2P[1] | 3LAC*PNL3C2P LIGHTING TRANSFORMER | Control Building | Spring 2013 RFO |
| M33SCV*XD5P[1] | AC DIST PANEL TRANSFORMER AUXILIARY | Auxiliary Building | Spring 2013 RFO |
| M33SCV*XD1O[1] | 240V/120V STEP DOWN XFMR ORANGE | Control Building | Spring 2013 RFO |
| M33CES*PNLTSB[1] | B TRAIN TRANSFER SWITCH PANEL | Control Building | Spring 2013 RFO |
| M33BYS*CHGR-1[1] | BATTERY CHARGER 1 (301A-1) | Control Building | Spring 2013 RFO |
| M33BYS*CHGR-3[1] | BATTERY CHARGER 3 (301A-2) | Control Building | Spring 2013 RFO |
| M33VBA*INV1[1] | INVERTER 1 | Control Building | Spring 2013 RFO |
| M33VBA*INV3[1] | INVERTER 3 | Control Building | Spring 2013 RFO |
| M33CHS*ZT190B[1] | CHG HDR FLOW CNTRL VLV 3CHS*HCV190B ELEC CNTR MOD | Auxiliary Building | Spring 2013 RFO |

[1] Walkdown inspection complete with the exception of access to electrical cabinet internally mounted items.

## 4.0 Seismic Walkdowns and Area Walk-Bys

The seismic walkdowns and area walk-bys were performed consistent with the guidance provided in the EPRI 1025286 (Reference 2).

A site-specific procedure was developed to implement the EPRI 1025286 seismic walkdown guidance for conducting and documenting the seismic walkdowns. A walkdown package was prepared for each component listed on the SWEL and for each area walk-by to be performed. Each package included a seismic walkdown checklist (SWC) or an area walk-by checklist (AWC) and the drawing(s) showing equipment location, plant documentation showing the anchorage details for each SWEL item requiring anchorage configuration verification. A hardcopy of the package was available for the SWEs during performance of the equipment walkdown or area walk-by.

The seismic walkdowns and area walk-bys were performed by walkdown teams, which consisted of at least two (2) qualified SWEs.

For the seismic walkdowns, the SWEs focused on the following adverse seismic conditions associated with each item of equipment as described in the EPRI 1025286 guidance:

- adverse anchorage conditions,
- adverse seismic spatial interactions, and
- other adverse seismic conditions

The purpose of the area walk-bys was to identify potentially adverse seismic conditions associated with other SSCs located in the vicinity of the SWEL items. For the area walk-bys, SWEs focused on the following potentially adverse seismic conditions as described in the EPRI 1025286 guidance:

- anchorage conditions (if visible without opening equipment),
- significantly degraded equipment in the area,
- condition of cable/conduit raceways, including condition of supports or fill conditions, and HVAC ducting,
- potential adverse seismic interactions including those that could cause flooding, spray, or a fire in the area, and
- housekeeping items that could cause adverse seismic interactions.

During the walkdown or walk-by, the walkdown teams discussed conditions and/or any findings in the field, reached agreement on the results of the walkdown, and documented results of the seismic walkdowns and area walk-bys on the checklists. The results of the completed seismic walkdowns are documented on SWCs, which are included as Appendix C. The results of the completed area walk-bys are documented on AWCs, which are included as Appendix D.

The SWEL includes 100 items to be walked down and 32 area walk-bys are defined. Of these, 76 walkdowns and 29 area walk-bys have been completed. The remaining items, 24 walkdowns and 3 area walk-bys, have been deferred because the component or area was not sufficiently accessible to complete the walkdown inspection and walkdown checklists are not included in this report for those items. The schedule for performance of these deferred seismic walkdowns is described in Section 3.4.

Table 4-1 lists potentially adverse seismic conditions identified during the completed seismic walkdowns and area walk-bys. The items listed in Table 4-1 were submitted as Condition Reports (CRs) in the plant corrective action program (CAP). Table 4-1 summarizes the potentially adverse seismic conditions, describes how the condition has been addressed, and provides the current status of the resolution. A low threshold was used to identify and document potential adverse conditions. In addition to items listed in Table 4-1, non-seismic related potentially adverse conditions such as various housekeeping and material condition items, were identified by the walkdown teams and addressed through the CAP.

No significant issues that challenged the MPS Unit 3 seismic licensing or design basis were identified as a result of the walkdowns completed to date. As indicated in Table 4-1, no planned or newly installed changes to the plant are required to resolve the items identified during the walkdowns.

**Table 4-1: Potentially Adverse Seismic Conditions**

| SWC / AWC | Equipment ID | CAP | Description | Resolution | Status |
|---|---|---|---|---|---|
| MP3-WD-SWEL-007[1] | MCC M332-5T | CR484055 | Door on spare bucket 5E of 480V MCC M332-5T was found unlatched and slightly open. | Determined to be a minor maintenance-housekeeping issue that did not adversely impact the seismic qualification of the MCC. | Work Order initiated to repair door. |
| MP3-WB-027 | MSVB | CR484067 | Four 480V temporary electric heaters (permit 14294-12-FP) stored in the 49'6" elevation of the Main Steam Valve Building (MSVB) are attached to grating with lanyards, but should be restrained to prevent tipping IAW Seismic Housekeeping Procedure. | This is a seismic housekeeping issue and not an equipment seismic qualification or operability issue. | The Four 480V temporary electric heaters have been properly secured in accordance with the Seismic Housekeeping Procedure - CLOSED. |
| MP3-WB-022 | 'A' RHR Room | CR484235 | Seismic housekeeping issues were identified: A significant quantity of metal jacketed insulation sections have been removed from piping and stacked on the floor throughout the room. The insulation sections and some miscellaneous tooling were not stored in a manner consistent with the Seismic Housekeeping Procedure. | This is a seismic housekeeping issue and not an equipment seismic qualification or operability issue. | Materials have been removed or properly stored in accordance with the Seismic Housekeeping Procedure – CLOSED. |
| MP3-WD-SWEL-050 | M33CHS*MV8116 | CR484242 | Moderate corrosion found on pipe support downstream of M33CHS*MV8116 (Charging Header Isolation Valve). Several supports within 35 feet located in a "housekeeping water collection trough" also show minimal to moderate corrosion at the floor plate to support member interfaces. The lower portion of the tube steel support is welded to an embedded floor plate. The weld interface to floor plate shows moderate signs of corrosion. | Based on field observation of the welds, there is sufficient effective throat and weld length, therefore the support is functional and not an operability concern. The environment is not severe and rapid degradation is not expected. | Work Order initiated to clean and recoat the corroded supports. |

**Table 4-1: Potentially Adverse Seismic Conditions**

| SWC / AWC | Equipment ID | CAP | Description | Resolution | Status |
|---|---|---|---|---|---|
| MP3-WB-022 | 3SIL*MV8812A | CR484243 | Identified corrosion of the lower pipe clamp of PSR016, a vertical strut adjacent to 3SIL*MV8812A supporting pipe 3-SIL-012-4-2 in the 4' 'A' RHR Room of the MP3 ESF Building. | Sufficient bolting material remains to provide structural integrity of the pipe clamp. However, the bolt should be replaced in a timely manner because the rate of degradation is not known. The bolt is showing surface corrosion with visual evidence of wastage of < 1/8 " throughout the bolts length. Although not impacting it's structural integrity the wet environment requires near term replacement. | Work Order initiated to replace the corroded bolting. |
| MP3-WD-SWEL-098 | 3CCE*TK1 | CR484958 | Observed that the limiting seismic interaction distance between 3CCE*TK1 and Pipe Support CP-372500-H001 (for the 3CCE*TK1 Fill Line) was approximately 1/8 inch, which is less than the standard seismic interaction acceptance criteria. | Engineering walkdowns and evaluation of engineering documents has determined that the interaction is acceptable based upon the following:<br>-Seismic II over I criteria are not directly applicable because both components are safety related, engineered and analyzed components<br>-Pipe Support CP372500-H001 is welded to Service Water Support 3SWP-2-PSR023 which is very robust and designed to deflect less than 1/16" inch.<br>-3CCE*TK1 is a 5 ft diameter rigid tank, anchored to floor in a manner which minimizes deflection (25212-29022 SH10). The tank has been selected as a location for seismic instrumentation (FSAR 3.7.4) due to its stiffness and representation of floor response.<br>- Because deflections are limited by design, it is not credible that impact loads generated from postulated seismic interactions could result in equipment damage or loss of function. | Corrective action has been completed to document the acceptable as-found separation distance between the tank and pipe support - CLOSED |

[1]The seismic walkdown for this item is not complete (see Table 3-1) and the final seismic walkdown checklist is not included in the report.

# 5.0 Licensing Basis Evaluation

The station CAP was used to document the evaluation of potentially adverse seismic conditions identified in Section 4.0.

## 5.1 Summary of Evaluations

There were no conditions identified during the seismic walkdowns completed to date that challenge the validity of the current plant seismic licensing or design basis.

## 5.2 Plant Modifications

There are no planned or newly installed changes to the plant as a result of implementation of the seismic walkdowns and area walk-bys completed to date.

As identified in Table 4-1, actions planned as a result of seismic walkdown findings include documentation updates, maintenance items, and engineering evaluations to document as-found conditions.

## 6.0 IPEEE Vulnerabilities

On June 28, 1991, the NRC issued Generic Letter (GL) 88-20, Supplement 4 (with NUREG-1407, *Procedural and Submittal Guidance*) requesting each licensee to perform an individual plant examination of external events (IPEEE) to identify plant-specific severe accident vulnerabilities and to report the results to the Commission together with any licensee-determined improvements and corrective actions. The MPS Unit 3 response to GL 88-20, Supplement 4, was submitted to NRC in a letter dated December 23, 1991 (Reference 7). The Reference 7 letter referenced the Individual Plant Examination (IPE) Summary Report submittal dated August 31, 1990 (Reference 8) to fulfill the intent of GL 88-20, Supplement 4. The IPE was based on the updated MPS Unit 3 Probabilistic Safety Study, which was initially performed at initial plant operation. MPS Unit 3, which began commercial operation in 1986, was determined to be a high seismic margin plant.

Although not identified as IPEEE vulnerabilities or outliers, the IPE Report (Reference 8), Table 6-2, Addressment of Significant PRA Findings, provides the seismic-related findings along with a description of how the items were addressed. The seismic related items are complete as indicated in Table 6-2 of the IPE Report.

NRC letter dated May 26, 1998 (Reference 9) provides the NRC staff's evaluation of the Millstone Unit 3 IPEEE submittal and concludes that the intent of GL 88-20 Supplement 4 was met.

## 7.0 Peer Review Summary

The Peer Review Team function and required activities are delineated in EPRI 1025286, Section 6, *Peer Review*. The Peer Review Team provided an overview of the following seismic walkdown activities, as defined in EPRI 1025286:

1. Selection of the SSCs included on the SWEL
2. Checklists prepared for the seismic walkdowns and area walk-bys
3. Licensing basis evaluations
4. Decisions for entering the potentially adverse seismic conditions into the CAP process
5. Submittal report

Peer Review activities were performed during the preparation and performance of the seismic walkdowns. The Peer Review Team members were:

- Marc Hotchkiss, Dominion, Peer Review Team Lead
- Leo Nadeau, Bechtel Power

A summary of the results of the Peer Review is provided below:

1. Selection of SSCs
   The Peer Review Team performed a comprehensive review of the SWEL. The SWEL was compared to the requirements of EPRI 1025286, Section 3, *Selection of SSC* utilizing Appendix F, *Peer Review Checklist* and was found to appropriately apply the EPRI 1025286 guidance including:
   - Selection of SWEL 1 SSCs
   - Use of sample selection attributes
   - Adequate representation of the five safety functions
   - Consideration of risk insights
   - Selection of spent fuel pool related items

   All peer review comments were minor and were adequately resolved.

2. Sample of Seismic Walkdown Checklist (SWC) and Area Walkdown Checklist (AWC)

   The Peer Review Team reviewed a sample of walkdown results and concluded that the SWCs and AWCs were completed in accordance with the EPRI 1025286 guidance.

   a. Packages – The Peer Review Team reviewed a sample of the seismic walkdown documentation packages prepared before walkdowns were performed. These walkdown packages were reviewed to ensure the seismic walkdown checklist and related documentation (e.g., walkdown checklist, anchorage details drawings, etc.) were included. The packages were determined to be adequate to support the walkdowns.
   b. SWC/AWC – There are 100 SWCs. 33 SWCs were peer reviewed representing 33% of the total, which exceeds the EPRI 1025286 requirement for a 10 – 25 % sample. 17 AWCs from a total of 32 were peer reviewed representing 53% of the

total. Overall, the SWC and AWC were determined to be appropriately detailed and complete.

c. Seismic Walkdown Engineers (SWEs) were interviewed by the Peer Review Team Lead to verify that they understood and followed the Guidance in EPRI 1025286, Section 4, *Seismic Walkdowns and Area Walk-Bys*. Results of the interviews indicated that each team understood and followed the EPRI guidance.

All peer review comments were minor and were adequately resolved.

3. Review of Licensing Basis Evaluations
All potentially adverse seismic conditions identified during the walkdowns were entered into the CAP consistent with plant procedure. There were no Licensing Basis Evaluations, as defined in EPRI 1025286, performed that were in addition to the CAP reviews.

4. Review of Conditions Entered into CAP
The threshold level at which field-identified conditions were entered in CAP was considered to be appropriate to ensure that potential licensing basis issues were documented and reviewed by Engineering and the Operations Shift Manager for operability concerns. Appropriate functional organizations (e.g., Operations, Maintenance, and Site Engineering) were routinely consulted and engaged in the evaluation of potentially adverse seismic conditions.

5. Review of Submittal Report
A review of the submittal report was performed by members of the Peer Review Team and it was determined that the objectives and requirements of the 50.54(f) Letter were met.

## 8.0 References


1. NRC Letter, *Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3 and 9.3 of the Near-Term Task Force Review of the Insights from the Fukushima Daiichi Accident*, dated March 12, 2012 (ML12056A046).
2. EPRI 1025286, Seismic Walkdown Guidance for Resolution of Fukushima Near-Term Task Force Recommendation 2.3: Seismic, June 2012.
3. NRC letter, *Endorsement of Electric Power Research Institute (EPRI) Draft Report 1025286, "Seismic Walkdown Guidance,"* dated May 31, 2012 (ML12145A529).
4. Millstone Power Station Unit 3 Final Safety Analysis Report, Revision 21.3.
5. Millstone Power Station Unit 3 Technical Requirement Manual, through Change No. 174.
6. Millstone Power Station Unit 3 Safety Functional Requirements Manual, Revision 6.
7. Letter A09683, J. F. Opeka to NRC Document Control Desk, *Response to Generic Letter 88-20, Supplement 4; Revised Response to Generic Letter 88-20, Supplement 1, Individual Plant Examination (IPE) for Sever Accident Vulnerabilities*, dated December 23, 1991
8. Letter B13596, E. J. Mroczka to NRC Document Control Desk, *Response to Generic Letter 88-20, Individual Plant Examination for Sever Accident Vulnerabilities Summary Report Submittal*, dated August 31, 1990
9. Letter A13809, J. W. Andersen, NRC to M. L. Bowling, Jr., *Millstone Nuclear Power Station, Unit No. 3 - Individual Plant Examination of External Events (TAC No. M83643),* dated May 26, 1998

# Appendix A

# Personnel Qualifications

**Louis J. DiLuna Jr.**

Summary of Background and Experience:

- Completed 5-day SQUG walkdown training course
- BS Civil Engineering
- MS Structural Engineering
- PE, Massachusetts and New York
- 36 years of experience in seismic evaluation of components and supports

**Marc Hotchkiss**

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical Engineering
- PE, Virginia
- 29 years of commercial nuclear power plant experience including: plant and system engineering; plant modifications; project management; nuclear control room shift operations (SRO); shift technical advisor; and new plant licensing; 3 years of nuclear plant seismic engineering-related experience

**James McKinney**

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical/Structural Engineering
- 36 years of nuclear seismic experience including: preparation and implementation of civil/structural plant modifications; civil/structural calculations; generating pipe stress and support calculations

**Leo Nadeau**

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical Engineering, MS Mechanical Engineering
- 25 years of experience in project management and engineering activities related to nuclear power plant projects including: engineering and construction experience with refueling outages in operating facilities; performing new construction and refurbishment of nuclear power plants; 15 years of seismic engineering experience

**James A. Petrosky**

Summary of Background and Experience:

- Completed 5-day SQUG walkdown training course (2001); Seismic Capability Engineer (2001)
- BS Civil Engineering
- MS Mechanical Engineering
- PE, Connecticut and Rhode Island
- 25 years of experience in nuclear seismic engineering including: preparation and implementation of civil/structural plant modifications; civil/structural calculations; equipment qualification using SQUG methodology

**Sombat Pornprasert**

Summary of Background and Experience:

- Completed 5-day SQUG training course (1994); Completed EPRI Add-On Seismic IPE training course (1994); Completed SQUG NARE training course (1994);
- BS Mechanical Engineering Technology
- 10 years of construction experience in nuclear power plant decommissioning and over 18 years of engineering and design experience within the power generation industry including: review of seismic documentation of components to ensure compliance with plant FSAR, specifications, and industry standards; seismic documentation package preparation for valves, pumps, heat exchangers, and electrical panels; equipment qualification using the SQUG GIP methodology and seismic margin analysis
- SQUG representative for Northeast Utilities (1993-1995)

**William Price**

Summary of Background and Experience:

- Completed 5-day SQUG walkdown training course (2012)
- AS Architectural Engineering
- 31 years of Civil/Structural Engineering/Design Engineering experience at Millstone Nuclear Power station including: 20 years of experience performing design improvements for Millstone Units 1, 2, and 3; 10 years of experience as Engineering Design Supervisor for Civil/Mechanical Engineering Design at Millstone Nuclear Power Station

**Thomas Steahr**

Summary of Background and Experience:

- Completed 5-day SQUG training (2000); Seismic Capability Engineer (2001)
- BS Mechanical Engineering
- 10 years of nuclear seismic engineering experience including: preparation and implementation of civil/structural plant modifications; civil/structural calculations

**Stephen F. Superson**

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Civil Engineering
- 30 years of experience in Structural Engineering including: seismic design and analysis of safety-related components, building steel, and structures; coordination and implementation of nuclear plant modifications; lead engineering direction

# Appendix B.1

# Base List 1

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1 | M33HVQ*ACUS1A | ESF SELF-CONTAINED AIR CONDITIONING UNIT | 3314D | ESG | ACS | ES | ABOVE "A" SIH PUMP | 0036 | 06 |
| 2 | M33HVQ*ACUS1B | ESF SELF-CONTAINED AIR CONDITIONING UNIT | 3314D | ESG | ACS | ES | NORTH CUBICLE | 0036 | |
| 3 | M33HVQ*ACUS2A | ESF SELF-CONTAINED AIR CONDITIONING UNIT | 3314D | ESG | ACS | ES | ABOVE MTR DR.FW/PMP | 0036 | |
| 4 | M33HVQ*ACUS2B | ESF SELF-CONTAINED AIR CONDITIONING UNIT | 3314D | ESG | ACS | ES | SOUTH CUB | 0036 | |
| 5 | M33HVR*ACU1A | EAST MCC ROD CONTROL AND CABLE VAULT AIR CONDITION UNIT | 3314A | RBV | ACU | AB | | 0066 | |
| 6 | M33HVR*ACU1B | WEST MCC ROD CONTROL AND CABLE VAULT AIR CONDITIONING UNIT | 3314A | RBV | ACU | AB | | 0066 | |
| 7 | M33HVC*ACU1A | CONTROL ROOM A/C UNIT SPLY | 3314F | ACC | ACU | CB | | 0064 | |
| 8 | M33HVC*ACU1B | CONTROL ROOM A/C UNIT SPLY | 3314F | ACC | ACU | CB | | 0078 | |
| 9 | M33HVC*ACU2A | AC UNIT INSTRUMENT RACK & COMPUTER ROOM | 3314F | ACC | ACU | CB | | 0064 | |
| 10 | M33HVC*ACU2B | AC UNIT INSTRUMENT RACK & COMPUTER ROOM | 3314F | ACC | ACU | CB | | 0078 | |
| 11 | M33HVC*ACU3A | EAST SWGR ROOM BACKUP AIR CONDITIONING UNIT | 3314F | ACC | ACU | CB | ABOVE BATT.ROOM#5 | 0004 | |
| 12 | M33HVC*ACU3B | WEST SWGR ROOM BACKUP AIR CONDITIONING UNIT | 3314F | ACC | ACU | CB | | 0004 | |
| 13 | M33HVC*ACU4A | EAST SWGR ROOM A/C UNIT | 3314F | ACC | ACU | CB | | 0004 | |
| 14 | M33HVC*ACU4B | WEST SWGR ROOM A/C UNIT | 3314F | ACC | ACU | CB | | 0004 | |
| 15 | M33SIL*AV8877A | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | AOV | CS | ABOVE AIR CLNG ASS C | -007 | |
| 16 | M33SIL*AV8877B | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | AOV | CS | ABOVE AIR CLNG ASS B | -007 | |
| 17 | M33SIL*AV8877C | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | AOV | CS | ABOVE AIR CLNG ASS A | -007 | |
| 18 | M33SIL*AV8877D | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | AOV | CS | ABOVE AIR FLTR FAN A | -007 | |
| 19 | M33SIL*AV8879A | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | AOV | CS | ABOVE AIR CLNG ASS C | -007 | |
| 20 | M33SIL*AV8879B | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | AOV | CS | ABOVE AIR CLNG ASS B | -007 | |
| 21 | M33SIL*AV8879C | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | AOV | CS | ABOVE AIR CLNG ASS A | -007 | |
| 22 | M33SIL*AV8879D | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | AOV | CS | ABOVE AIR FLTR FAN A | -007 | |
| 23 | M33SIL*AV8889B | LPSI TEST VALVE | 3301 | LPI | AOV | CS | ANNULUS | 0003 | 08 |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 24 | M33SIH*CV8823 | TEST LINE ISOL SI TO COLD LEG INJ | 3308 | HPI | AOV | CS | | 0019 | 06 |
| 25 | M33SIH*CV8824 | TEST LINE ISOL SI TO 1/3 HOT LEG | 3308 | HPI | AOV | CS | | 0019 | 06 |
| 26 | M33SIH*CV8843 | TEST LINE ISOL CHARGING PUMP HDR CK | 3308 | HPI | AOV | CS | ANNULUS | 0008 | 08 |
| 27 | M33SIH*CV8881 | TEST LINE ISOL SI TO 2/4 HOT LEG | 3308 | HPI | AOV | CS | | 0005 | |
| 28 | M333L-3FWA*AOV23A | S/G AUXILIARY FEEDWATER ALTERNATE VLV SUCTION CLOSED LIMIT SWITCH | 3322 | AFW | AOV | ES | (A) AUX FW PUMP | 0022 | |
| 29 | M333L-3FWA*AOV23B | S/G AUXILIARY FEEDWATER ALTERNATE VLV SUCTION CLOSED LIMIT SWITCH | 3322 | AFW | AOV | ES | (A) AUX FW PUMP | 0024 | 09 |
| 30 | M333L-3FWA*AOV61A | S/G AUXILIARY FEEDWATER PUMP A SUCTION ISOL VLV CLOSED LIMIT SWT | 3322 | AFW | AOV | ES | FWA P1A ROOM | 0022 | |
| 31 | M333L-3FWA*AOV61B | S/G AUXILIARY FEEDWATER PUMP A SUCTION ISOL VLV CLOSED LIMIT SWT | 3322 | AFW | AOV | ES | FWA P1A ROOM | 0024 | 10 |
| 32 | M333U-3FWA*AOV23A | S/G AUXILIARY FEEDWATER ALTERNATE VLV SUCTION OPEN LIMIT SWITCH | 3322 | AFW | AOV | ES | (A) AUX FW PUMP | 0022 | 02 |
| 33 | M333U-3FWA*AOV23B | S/G AUXILIARY FEEDWATER ALTERNATE VLV SUCTION OPEN LIMIT SWITCH | 3322 | AFW | AOV | ES | (A) AUX FW PUMP | 0027 | 08 |
| 34 | M333U-3FWA*AOV61A | S/G AUXILIARY FEEDWATER PUMP A SUCTION ISOL VLV OPEN LIMIT SWT | 3322 | AFW | AOV | ES | FWA P1A ROOM | 0022 | |
| 35 | M333U-3FWA*AOV61B | S/G AUXILIARY FEEDWATER PUMP A SUCTION ISOL VLV OPEN LIMIT SWT | 3322 | AFW | AOV | ES | FWA P1A ROOM | 0025 | 02 |
| 36 | M33FWA*AOV23A | SGAFW ALTERNATE SUCTION VALVE (A MOTOR DRIVEN) | 3322 | AFW | AOV | ES | (A) AUX FW PUMP | 0027 | |
| 37 | M33FWA*AOV23B | SGAFW ALTERNATE SUCTION VALVE (B MOTOR DRIVEN) | 3322 | AFW | AOV | ES | B AUXILIARY FW PUMP | 0027 | |
| 38 | M33FWA*AOV25 | DEMIN WTR STORAGE TK HEATING CIRC LINE ISOL | 3322 | AFW | AOV | YD | DWST TANK | 0026 | |
| 39 | M33FWA*AOV26 | DEMIN WTR STORAGE TK HEATING CIRC LINE ISOL | 3322 | AFW | AOV | YD | DWST TANK | 0026 | |
| 40 | M33FWA*AOV61A | SGAFW PUMP (A) NORMAL SUCTION ISOLATION VALVE | 3322 | AFW | AOV | ES | FWA P1A ROOM | 0024 | 06 |
| 41 | M33FWA*AOV61B | SGAFW PUMP (B) NORMAL SUCTION ISOLATION VALVE | 3322 | AFW | AOV | ES | FWA P1B ROOM | 0026 | |
| 42 | M33FWA*AOV62A | A TRAIN DISCHARGE CROSS CONN | 3322 | AFW | AOV | ES | A AUX FEEDWATER PUMP | | |
| 43 | M33FWA*AOV62B | B TRAIN DISCHARGE CROSS-CONN | 3322 | AFW | AOV | ES | B AUX FEEDWATER PUMP | | |
| 44 | M33FWA*HCV37 | STEAM GENERATOR AUXILIARY FEEDWATER ALTERNATE SUCTION | 3322 | AFW | AOV | ES | | 0021 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 45 | M33MSS*AOV65 | TDAFWP TURB EXH SILENCER DRAIN | 3322 | STG | AOV | ES | | 0021 | |
| 46 | M33SWP*AOV39A | SERVICE WATER A DIESEL GENERATOR HEAT EXCHANGE OUTLET | 3326 | SWS | AOV | DG | A DIESEL | 0036 | |
| 47 | M33SWP*AOV39B | SERVICE WATER B DIESEL GENERATOR HEAT EXCHANGE OUTLET | 3326 | SWS | AOV | DG | B DIESEL | 0036 | |
| 48 | M33CHS*AOV64 | FAILED FUEL DET WATER ISOLATION | 3304A | CVC | AOV | AB | OUTSIDE SEAL WTR RM | 0009 | 06 |
| 49 | M33CHS*AOV68 | FAILED FUEL DET INLET ISOLATION | 3304A | CVC | AOV | AB | OUTSIDE SEAL WTR RM | 0005 | 06 |
| 50 | M33CHS*AOV71 | VOL CONT TK | 3304A | CVC | AOV | AB | | 0043 | |
| 51 | M33CHS*AV8141A | RCP A SEAL LEAKOFF ISOLATION | 3304A | CVC | AOV | CS | "A" CUBICLE | 0007 | |
| 52 | M33CHS*AV8141B | RCP B SEAL LEAKOFF ISOLATION | 3304A | CVC | AOV | CS | "B" CUBICLE | 0018 | |
| 53 | M33CHS*AV8141C | RCP C SEAL LEAKOFF ISOLATION | 3304A | CVC | AOV | CS | "C" CUBICLE | 0003 | 08 |
| 54 | M33CHS*AV8141D | RCP D SEAL LEAKOFF ISOLATION | 3304A | CVC | AOV | CS | D CUBICLE | 0020 | |
| 55 | M33CHS*CV8152 | LETDOWN HEADER CTMT ISOLATION | 3304A | CVC | AOV | AB | PIPE PEN# Z-24 MEZZ | 0018 | |
| 56 | M33CHS*FCV121 | CHARGING FLOW CONTROL VALVE | 3304A | CVC | AOV | AB | | 0004 | 06 |
| 57 | M33CHS*FV99 | VCT SWIRL CONTROLLER | 3304A | CVC | AOV | AB | VCT TOP OF TANK | 0057 | |
| 58 | M33CHS*HCV123 | EXCESS LETDOWN FLOW CONTROLLER | 3304A | CVC | AOV | CS | EXCESS LTDN HX | -008 | |
| 59 | M33CHS*HCV128 | LETDOWN FROM RHR FLOW CONTROLLER | 3304A | CVC | AOV | AB | LTDN MOD HX | 0004 | 06 |
| 60 | M33CHS*HCV182 | RCP SEAL WATER FLOW CONTROLLER | 3304A | CVC | AOV | AB | "C" CHRGNG PMP CUB. | 0024 | 06 |
| 61 | M33CHS*HCV184 | LOOP FILL HEADER FLOW CONTROLLER | 3304A | CVC | AOV | AB | VALVE MEZZ NEAR STRS | 0012 | |
| 62 | M33CHS*LCV112A | VCT HIGH LEVEL DUMP | 3304A | CVC | AOV | AB | PLATFORM ABOVE VCT | 0060 | |
| 63 | M33CHS*PCV131 | LETDOWN PRESSURE CONTROL VALVE | 3304A | CVC | AOV | AB | | 0004 | 06 |
| 64 | M33CHS*FCV110A | BORIC ACID SUPPLY TO BLENDER ISOLATION | 3304C | CVC | AOV | AB | A CHARGING PMP CUB | 0030 | |
| 65 | M33CHS*FCV111A | PRIMARY WATER SUPPLY TO BLENDER | 3304C | CVC | AOV | AB | BORIC ACID PMP A RM | 0047 | 06 |
| 66 | M33SIL*AV8889D | LPSI TEST VALVE | 3307A | LPI | AOV | CS | ANNULUS | 0003 | 08 |
| 67 | M33RHS*FCV618 | RESIDUAL HEAT REMOVAL A HEAT TOTAL FLOW CNTL | 3307B | RHR | AOV | ES | BTWN RHS PIT & EIA | 0021 | 06 |
| 68 | M33RHS*FCV619 | RESIDUAL HEAT REMOVAL B HX TOTAL FLOW CNTL | 3307B | RHR | AOV | ES | | 0021 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 69 | M33RHS*HCV606 | RES HX E1A FLOW CONT | 3307B | RHR | AOV | ES | RHS CUBE A | 0004 | |
| 70 | M33RHS*HCV607 | RESIDUAL HEAT REMOVAL HX E1B FLOW CNTL | 3307B | RHR | AOV | ES | RHS 'B' CUBICLE | 0004 | |
| 71 | M33HVC*AOV20 | CNTL RM VENT EXHAUST AIR ISOL | 3314F | ACC | AOV | CB | | 0064 | |
| 72 | M33HVC*AOV21 | CNTL RM VENT EXHAUST AIR ISOL | 3314F | ACC | AOV | CB | | 0064 | |
| 73 | M33HVC*AOV22 | CNTRL ROOM VENTILATION OUT ISOL VLV | 3314F | ACC | AOV | CB | MEZZANINE | 0064 | |
| 74 | M33HVC*AOV23 | CNTRL ROOM VENTILATION OUT ISOL VLV | 3314F | ACC | AOV | CB | MEZZANINE | 0064 | |
| 75 | M33HVC*AOV25 | CNTRL ROOM VENTILATION INLET ISOL VV | 3314F | ACC | AOV | CB | ABOVE MANUAL DOOR | 0064 | |
| 76 | M33HVC*AOV26 | CONTROL ROOM VENTILATION INLET ISOLATION VALVE | 3314F | ACC | AOV | CB | ABOVE TORNADO DOOR | 0064 | |
| 77 | M33DTM*AOV29A | MSI TRAIN A STEAM HEADER DRAIN (1SG) | 3316A | DTM | AOV | MS | S/W CUBE | 0063 | |
| 78 | M33DTM*AOV29B | MSI TRAIN A STEAM HEADER DRAIN (2SG) | 3316A | DTM | AOV | MS | S/E CUBE | 0063 | |
| 79 | M33DTM*AOV29C | MSI TRAIN A STEAM HEADER DRAIN (3SG) | 3316A | DTM | AOV | MS | N/E CUBE | 0063 | |
| 80 | M33DTM*AOV29D | MSI TRAIN A STEAM HEADER DRAIN (4SG) | 3316A | DTM | AOV | MS | N/E CUBE | 0063 | |
| 81 | M33DTM*AOV61A | MSI TRAIN B STEAM HEADER DRAIN (1SG) | 3316A | DTM | AOV | MS | S/E CUBE | 0063 | |
| 82 | M33DTM*AOV61B | MSI TRAIN B STEAM HEADER DRAIN (2SG) | 3316A | DTM | AOV | MS | S/E CUBE | 0063 | |
| 83 | M33DTM*AOV61C | MSI TRAIN B STEAM HEADER DRAIN (3SG) | 3316A | DTM | AOV | MS | N/E CUBE | 0063 | |
| 84 | M33DTM*AOV61D | MSI TRAIN B STEAM HEADER DRAIN (4SG) | 3316A | DTM | AOV | MS | N/E CUBE | 0063 | |
| 85 | M33DTM*AOV63A | MSI TRAIN A STEAM HEADER DRAIN (1TT) | 3316A | DTM | AOV | ES | CUBICLE SW OF TT | 0024 | |
| 86 | M33DTM*AOV63B | MSI TRAIN A STEAM HEADER DRAIN (2TT) | 3316A | DTM | AOV | ES | CUBICLE SW OF TT | 0022 | |
| 87 | M33DTM*AOV63D | CTMT ISOL A SG STM HDR DRAIN (4TT) | 3316A | DTM | AOV | ES | CUBICLE SW OF TT | 0024 | |
| 88 | M33DTM*AOV64A | MSI TRAIN B STEAM HEADER DRAIN (1TT) | 3316A | DTM | AOV | ES | SW CORNER OF TT ROOM | 0023 | |
| 89 | M33DTM*AOV64B | MSI TRAIN B STEAM HEADER DRAIN (2TT) | 3316A | DTM | AOV | ES | SW CORNER OF ROOM | 0012 | |
| 90 | M33DTM*AOV64D | MSI TRAIN B STEAM HEADER DRAIN (4TT) | 3316A | DTM | AOV | ES | W SIDE ABOVE PLTFRM | 0012 | |
| 91 | M33MSS*AOV31A | TERRY TURBINE STEAM ISOLATION FROM A S/G | 3316A | STG | AOV | ES | CUBE SOUTH OF TERRY | 0025 | |
| 92 | M33MSS*AOV31B | TERRY TURBINE STEAM ISOLATION FROM B S/G | 3316A | STG | AOV | ES | CUBE SOUTH OF TERRY | 0025 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 93 | M33MSS*AOV31D | TERRY TURBINE STEAM ISOLATION FROM D S/G | 3316A | STG | AOV | ES | CUBE SOUTH OF TERRY | 0025 | |
| 94 | M33MSS*HV28A | STEAM GENERATOR 1 MSIV BYPASS VALVE | 3316A | STG | AOV | MS | | 0073 | 06 |
| 95 | M33MSS*HV28B | STEAM GENERATOR 2 MSIV BYPASS VALVE | 3316A | STG | AOV | MS | | 0073 | 06 |
| 96 | M33MSS*HV28C | STEAM GENERATOR 3 MSIV BYPASS VALVE | 3316A | STG | AOV | MS | | 0073 | 06 |
| 97 | M33MSS*HV28D | STEAM GENERATOR 4 MSIV BYPASS VALVE | 3316A | STG | AOV | MS | | 0073 | 06 |
| 98 | M33MSS*PV20C | MAIN STEAM PRESSURE RELIEVING CONTROL | 3316A | STG | AOV | MS | LOCATED ON B MS LINE | 0068 | |
| 99 | M33CCP*AOV10A | TR A NON-SAFETY HEADER SUPPLY ISOL | 3330A | CCR | AOV | AB | UNDER CCP PP'S | 0004 | |
| 100 | M33CCP*AOV10B | TR B NON-SAFETY HEADER SUPPLY ISOL | 3330A | CCR | AOV | AB | UNDER CCP PP'S | 0004 | 06 |
| 101 | M33CCP*AOV178A | RPCCW RETURN 1 RCP THERMAL BARRIER | 3330A | CCR | AOV | CS | CUBICLE A | 0026 | |
| 102 | M33CCP*AOV178B | RPCCW RETURN 2 RCP THERMAL BARRIER | 3330A | CCR | AOV | CS | B PUMP MEZZANINE | 0026 | |
| 103 | M33CCP*AOV178C | RPCCW RETURN 3 RCP THERMAL BARRIER | 3330A | CCR | AOV | CS | CUBICLE C | 0026 | 06 |
| 104 | M33CCP*AOV178D | RPCCW RETURN 4 RCP THERMAL BARRIER | 3330A | CCR | AOV | CS | D PUMP MEZZANINE | 0026 | |
| 105 | M33CCP*AOV179A | TR A RPCCW SUPPLY HEADER DIV | 3330A | CCR | AOV | CS | IN PASSAGEWAY | 0021 | 06 |
| 106 | M33CCP*AOV179B | TR B RPCCW SUPPLY HEADER DIV | 3330A | CCR | AOV | CS | IN PASSAGEWAY | 0021 | 06 |
| 107 | M33CCP*AOV180A | TR A RPCCW RETURN HEADER DIV | 3330A | CCR | AOV | CS | IN PASSAGEWAY | 0006 | 06 |
| 108 | M33CCP*AOV180B | TR B RPCCW RETURN HEADER DIV | 3330A | CCR | AOV | CS | IN PASSAGEWAY | 0006 | 06 |
| 109 | M33CCP*AOV194A | TR A RPCCW NON-SAFETY HEADER RETURN ISOL | 3330A | CCR | AOV | AB | MEZZANINE,UNDER PUMP | 0004 | 06 |
| 110 | M33CCP*AOV194B | TR B RPCCW NON-SAFETY HEADER RETURN ISOL | 3330A | CCR | AOV | AB | MEZZANINE,UNDER PUMP | 0004 | 06 |
| 111 | M33CCP*AOV197A | TR A RPCCW NON-SAFETY HEADER SUPPLY ISOL | 3330A | CCR | AOV | AB | MEZZANINE, UNDER PP | 0004 | 06 |
| 112 | M33CCP*AOV197B | TR B RPCCW NON-SAFETY HEADER SUPPLY ISOL | 3330A | CCR | AOV | AB | MEZZANINE,UNDER PUMP | 0004 | 06 |
| 113 | M33CCP*AOV19A | TR A RPCCW NON-SAFETY HEADER RETURN ISOL | 3330A | CCR | AOV | AB | UNDER CCP PP'S | 0004 | 06 |
| 114 | M33CCP*AOV19B | TR B RPCCW NON-SAFETY HEADER RETURN ISOL | 3330A | CCR | AOV | AB | UNDER CCP PP'S | 0004 | 06 |
| 115 | M33CCP*AOV31C | TR A RE31 SAMPLE ISOL | 3330A | CCR | AOV | AB | NEXT TO CHILLER UNIT | 0043 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 116 | M33CCP*AOV31D | TR B RE31 SAMPLE ISOL | 3330A | CCR | AOV | AB | NEXT OT CHR UNIT | 0043 | 06 |
| 117 | M33CCP*TV172 | LETDOWN HEAT EXCHANGER OUTLET TEMPERATURE CONTROL VALVE | 3330A | CCR | AOV | AB | OUT BRNMTR RM W WALL | 0004 | |
| 118 | M33CCP*TV32A | RPCCW HEAT EXCHANGER A OUTLET TCV | 3330A | CCR | AOV | AB | | 0024 | 06 |
| 119 | M33CCP*TV32B | RPCCW HEAT EXCHANGER B OUTLET TCV | 3330A | CCR | AOV | AB | | 0024 | 06 |
| 120 | M33CCP*TV32C | COMP COOLING HEAT EXCHANGER OUTLET TEMPERATURE CONTROL VALVES (2) | 3330A | CCR | AOV | AB | | 0024 | 06 |
| 121 | M33CCE*AOV26A | 'A' CHARGING PUMP COOLING PUMP SUCTION XCONN | 3330D | CCE | AOV | AB | CHRG PP CLG PP RM | 0024 | 06 |
| 122 | M33CCE*AOV26B | B CHARGING PUMP COOLING PUMP SUCTION XCONN | 3330D | CCE | AOV | AB | CHG PP CLG ROOM | 0024 | 06 |
| 123 | M33CCE*AOV30A | 'A' CHARGING PUMP COOLING PUMP DISCHARGE TRANSFER CONNECTION | 3330D | CCE | AOV | AB | CHG PP CLG PP RM | 0024 | 06 |
| 124 | M33CCE*AOV30B | 'B' CHARGING PUMP COOLING PUMP DISCHARGE TRANSFER CONNECTION | 3330D | CCE | AOV | AB | CHG PP CLG PP ROOM | 0025 | 06 |
| 125 | M33CCE*TV37A | 'A'CHARGING PUMP COOLING TEMPERATURE CONTROL VALVE | 3330D | CCE | AOV | AB | CHG PP CLN PP ROOM | 0024 | 06 |
| 126 | M33CCE*TV37B | B CHARGING PUMP COOLING TEMPERATURE CONTROL VALVE | 3330D | CCE | AOV | AB | CHG PP CLR TEMP CONT | 0024 | 06 |
| 127 | M3301A-1 | BATTERY 1 (301A-1) | 3345C | EDC | BTY | CB | BATTERY | 0004 | |
| 128 | M3301A-2 | BATTERY 3 (301A-2) | 3345C | EDC | BTY | CB | BATTERY | 0004 | |
| 129 | M3301B-1 | BATTERY 2 (301B-1) | 3345C | EDC | BTY | CB | BATTERY | 0004 | |
| 130 | M3301B-2 | BATTERY 4 (301B-2) | 3345C | EDC | BTY | CB | BATTERY | 0004 | |
| 131 | M33BYS*CHGR-1 | BATTERY CHARGER 1 (301A-1) | 3345C | EDC | CHG | CB | EAST SWGR ROOM | 0004 | |
| 132 | M33BYS*CHGR-2 | BATTERY CHARGER 2 (301B-1) | 3345C | EDC | CHG | CB | WEST SWGR ROOM | 0004 | |
| 133 | M33BYS*CHGR-3 | BATTERY CHARGER 3 (301A-2) | 3345C | EDC | CHG | CB | EAST SWITCHGEAR | 0004 | |
| 134 | M33BYS*CHGR-4 | BATTERY CHARGER 4 (301B-2) | 3345C | EDC | CHG | CB | WEST SWGR ROOM | 0004 | |
| 135 | M33BYS*CHGR-5 | BATTERY CHARGER 5 (301C-1) | 3345C | EDC | CHG | CB | EAST SWGR ROOM | 0004 | |
| 136 | M33BYS*CHGR-7 | BATTERY CHARGER 7 (301A-3) | 3345C | EDC | CHG | CB | EAST SWGR ROOM | 0004 | |
| 137 | M33BYS*CHGR-8 | BATTERY CHARGER 8 (3-1B-3) | 3345C | EDC | CHG | CB | WEST SWGR ROOM | 0004 | |
| 138 | M33HVK*CHL1A | CONTROL BLDG WATER CHILLER | 3314F | CBW | CHL | CB | | 0064 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 139 | M33HVK*CHL1B | CONTROL BLDG WATER CHILLER | 3314F | CBW | CHL | CB | | 0064 | |
| 140 | M33EGS*EGA | EMERGENCY DIESEL GENERATOR (A) | 3346A | DGN | EAG | DG | D/G 'A' | 0024 | |
| 141 | M33EGS*EGB | EMERGENCY DIESEL GENERATOR (B) | 3346A | DGN | EAG | DG | D/G 'B' | 0024 | |
| 142 | M33HVR*FN13A | CHARGING PUMP EXHAUST FAN | 3314A | RBV | FAN | AB | | 0066 | |
| 143 | M33HVR*FN13B | CHARGING PUMP EXHAUST FAN | 3314A | RBV | FAN | AB | | 0066 | |
| 144 | M33HVR*FN14A | CHRG & CMPNT COOLING PUMP SUPPLY FAN | 3314A | RBV | FAN | AB | | 0074 | |
| 145 | M33HVR*FN14B | AUXILIARY BUILDING CHARGING PUMP SUPPLY FAN | 3314A | RBV | FAN | AB | | 0066 | |
| 146 | M33HVR*FN6A | AUXILIARY BUILDING FILTER EXCHANGE FAN | 3314A | RBV | FAN | AB | | 0076 | |
| 147 | M33HVR*FN6B | AUXILIARY BUILDING FILTER EXCHANGE FAN | 3314A | RBV | FAN | AB | | 0066 | |
| 148 | M33HVR*MIS13A | CHARGING PMP CUBE EXHST FAN FLEX CONNECTION MISSLE BARRIER | 3314A | RBV | FAN | AB | | 0066 | |
| 149 | M33HVR*MIS13B | CHARGING PMP CUBE EXHST FAN FLEX CONNECTION MISSLE BARRIER | 3314A | RBV | FAN | AB | | 0066 | |
| 150 | M33HVR*MIS14A | CHARGING PMP & COMP CLG PMP AREA FLEX CONNECT MISSILE BARRIER | 3314A | RBV | FAN | AB | | 0074 | |
| 151 | M33HVR*MIS14B | CHARGING PMP & COMP CLG PMP AREA FLEX CONNECT MISSILE BARRIER | 3314A | RBV | FAN | AB | | 0074 | |
| 152 | M33HVR*FN10A | FUEL BUILDING EXHAUST FAN | 3314C | RBV | FAN | AB | | | |
| 153 | M33HVR*FN10A1 | FUEL BLDG EXHAUST FAN | 3314C | RBV | FAN | AB | | | |
| 154 | M33HVR*FN10A2 | FUEL BLDG EXHAUST FAN | 3314C | RBV | FAN | AB | | | |
| 155 | M33HVR*FN10B | FUEL BLDG EXHAUST FAN | 3314C | RBV | FAN | AB | | | |
| 156 | M33HVR*FN10B1 | FUEL BLDG EXHAUST FAN | 3314C | RBV | FAN | FB | | | |
| 157 | M33HVR*FN10B2 | FUEL BLDG EXHAUST FAN | 3314C | RBV | FAN | AB | | | |
| 158 | M33HVQ*FN5A | AUXILIARY FD PUMP AREA EMERGENCY SUPPLY FAN | 3314D | ESG | FAN | ES | SOUTH CUB EASTWALL | 0036 | |
| 159 | M33HVQ*FN5B | AUXILIARY FD PUMP AREA EMERGENCY SUPPLY FAN | 3314D | ESG | FAN | ES | STH.CUB. FLOOR LVL | 0036 | |
| 160 | M33HVQ*FN6A | AUXILIARY FD PUMP AREA EMERGENCY EXHAUST FAN | 3314D | ESG | FAN | ES | STH.CUB. OVRHD ESTWL | 0036 | |
| 161 | M33HVQ*FN6B | AUXILIARY FD PUMP AREA EMERGENCY EXHAUST FAN | 3314D | ESG | FAN | ES | STH.CUB. OVHD EASTWL | 0036 | |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 162 | M33HVC*FN1A | CONTROL ROOM EMERGENCY AIR SUPPLY FAN | 3314F | ACC | FAN | CB | | 0064 | |
| 163 | M33HVC*FN1B | CONTROL ROOM EMERGENCY AIR SUPPLY FAN | 3314F | ACC | FAN | CB | | 0064 | |
| 164 | M33HVC*FN2A | CHILLER EQUIPMENT ROOM SUPPLY VENT FAN | 3314F | ACC | FAN | CB | | 0064 | |
| 165 | M33HVC*FN2B | CHILLER EQUIPMENT ROOM SUPPLY FAN | 3314F | ACC | FAN | CB | | 0064 | |
| 166 | M33HVC*FN3A | EAST SWGR AND BATTERY ROOMS 1, 3 & 5 SUPPLY FAN | 3314F | ACC | FAN | CB | | 0004 | |
| 167 | M33HVC*FN3A1 | E SWGR RM EXH FAN 1 | 3314F | ACC | FAN | CB | | 0000 | 00 |
| 168 | M33HVC*FN3A2 | E SWGR RM EXH FAN 2 | 3314F | ACC | FAN | CB | | 0000 | 00 |
| 169 | M33HVC*FN3B | WEST SWITCHGEAR AND BATTERY ROOMS 2 & 4 SPLY FAN | 3314F | ACC | FAN | CB | | 0004 | |
| 170 | M33HVC*FN3B1 | WEST SWGR ROOM EXH FN 1 | 3314F | ACC | FAN | CB | | 0000 | 00 |
| 171 | M33HVC*FN3B2 | WEST SWGR ROOM EXH FN 2 | 3314F | ACC | FAN | CB | | 0000 | 00 |
| 172 | M33HVC*FN7A | CNTRL BLG EQUIP RM EXHST FAN | 3314F | ACC | FAN | CB | | 0064 | |
| 173 | M33HVC*FN7B | CNTRL BLG EQUIP RM EXHST FAN | 3314F | ACC | FAN | CB | | 0064 | |
| 174 | M33HVC*FN9A | BAT ROOM (1) VENTILATION EXHAUST FAN | 3314F | ACC | FAN | CB | | 0004 | |
| 175 | M33HVC*FN9B | BAT ROOM (2) VENTILATION EXHAUST FAN | 3314F | ACC | FAN | CB | | 0004 | |
| 176 | M33HVC*FN9C | BAT ROOM (3) VENTILATION EXHAUST FAN | 3314F | ACC | FAN | CB | | 0004 | |
| 177 | M33HVC*FN9D | BAT ROOM (4) VENTILATION EXHAUST FAN | 3314F | ACC | FAN | CB | | 0004 | |
| 178 | M33HVC*FN9E | BAT ROOM (5) VENTILATION EXHAUST FAN | 3314F | ACC | FAN | CB | | 0004 | |
| 179 | M33HVP*FN1A | EMERGENCY GENERATOR BUILDING SUPPLY FAN | 3314H | DGV | FAN | DG | | 0044 | |
| 180 | M33HVP*FN1B | EMERGENCY GENERATOR BUILDING SUPPLY FAN | 3314H | DGV | FAN | DG | | 0044 | |
| 181 | M33HVP*FN1C | EMERGENCY GENERATOR BUILDING SUPPLY FAN | 3314H | DGV | FAN | DG | | 0044 | |
| 182 | M33HVP*FN1D | EMERGENCY GENERATOR BUILDING SUPPLY FAN | 3314H | DGV | FAN | DG | | 0044 | |
| 183 | M33SFC*E1A | SPENT FUEL POOL COOLER | 3305 | SFC | HXR | FB | | | |
| 184 | M33SFC*E1B | SPENT FUEL POOL COOLER | 3305 | SFC | HXR | FB | | | |
| 185 | M33SIH*E2A | SI PUMP LUBRICATION OIL COOLER | 3308 | HPI | HXR | ES | | 0024 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 186 | M33SIH*E2B | SI PUMP LUBRICATION OIL COOLER | 3308 | HPI | HXR | ES | | 0024 | |
| 187 | M33FWL*E2A | "A" MDAFP LUBE OIL COOLER | 3322 | FWL | HXR | ES | | 0021 | |
| 188 | M33FWL*E2B | "B" MDAFP LUBE OIL COOLER | 3322 | FWL | HXR | ES | | 0021 | |
| 189 | M33FWL*E3 | TDAFP LUBE OIL COOLER | 3322 | FWL | HXR | ES | | 0021 | |
| 190 | M33CHS*E1 | REGENERATIVE HEAT EXCHANGER | 3304A | CVC | HXR | CS | | 0003 | |
| 191 | M33CHS*E2 | LETDOWN HEAT EXCHANGER | 3304A | CVC | HXR | AB | | 0024 | |
| 192 | M33CHS*E3 | EXCESS LETDOWN HEAT EXCHANGER | 3304A | CVC | HXR | CS | | 0003 | |
| 193 | M33CHS*E4 | SEAL WATER HEAT EXCHANGER | 3304A | CVC | HXR | AB | | 0024 | |
| 194 | M33CHS*E9A | CHARGING PUMP LO COOLER | 3304A | CVC | HXR | AB | | 0024 | |
| 195 | M33CHS*E9B | CHARGING PUMP LO COOLER | 3304A | CVC | HXR | AB | | 0024 | |
| 196 | M33CHS*E9C | CHARGING PUMP LO COOLER | 3304A | CVC | HXR | AB | | 0024 | |
| 197 | M33RHS*E1A | RESIDUAL HEAT EXCHANGER | 3307B | RHR | HXR | ES | A RHR CUBICLE | 0004 | 06 |
| 198 | M33RHS*E1B | RESIDUAL HEAT EXCHANGER | 3307B | RHR | HXR | ES | B RHR CUBICLE | 0004 | 06 |
| 199 | M33RHS*E2A | RHR PUMP SEAL COOLER | 3307B | RHR | HXR | ES | | 0004 | |
| 200 | M33RHS*E2B | RHR PUMP SEAL COOLER | 3307B | RHR | HXR | ES | | 0004 | |
| 201 | M33HVK*E1A | HEAT EXCHANGER FOR CONTROL BUILDING WATER CHILLER | 3314F | CBW | HXR | CB | | 0064 | |
| 202 | M33HVK*E1B | HEAT EXCHANGER FOR CONTROL BUILDING WATER CHILLER. | 3314F | CBW | HXR | CB | | | |
| 203 | M33CCP*E1A | RPCCW HEAT EXCHANGER A | 3330A | CCR | HXR | AB | | 0024 | |
| 204 | M33CCP*E1B | RPCCW HEAT EXCHANGER B | 3330A | CCR | HXR | AB | | 0024 | |
| 205 | M33CCP*E1C | RPCCW HEAT EXCHANGER C | 3330A | CCR | HXR | AB | | 0024 | |
| 206 | M33CCE*E1A | A CHARGING PUMP COOLER | 3330D | CCE | HXR | AB | | 0024 | 06 |
| 207 | M33CCE*E1B | B CHARGING PUMP COOLER | 3330D | CCE | HXR | AB | | 0024 | 06 |
| 208 | M33EGS*E1A | ENGINE AIR COOLER WATER HEAT EXCHANGER | 3346A | DGN | HXR | DG | DG-A | 0024 | 06 |
| 209 | M33EGS*E1B | ENGINE AIR COOLER WATER HEAT EXCAHNGER | 3346A | DGN | HXR | DG | DG-B | 0024 | 06 |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 210 | M33EGS*E2A | JACKET WATER COOLER | 3346A | DGN | HXR | DG | | 0024 | |
| 211 | M33EGS*E2B | JACKET WATER COOLER | 3346A | DGN | HXR | DG | | 0024 | |
| 212 | M33EGS*E3A | LUBE OIL HEAT EXCHANGER | 3346A | DGN | HXR | DG | D/G 'A' | 0024 | |
| 213 | M33EGS*E3B | LUBE OIL HEAT EXCHANGER | 3346A | DGN | HXR | DG | D/G 'B' | 0024 | |
| 214 | M33EGS*E4A | GOVERNOR LUBE OIL COOLER | 3346A | DGN | HXR | DG | | 0024 | |
| 215 | M33EGS*E4B | GOVERNOR LUBE OIL COOLER | 3346A | DGN | HXR | DG | | 0024 | |
| 216 | M33VBA*INV1 | INVERTER 1 | 3345B | EDC | IVT | CB | EAST SWITCHGEAR RM | 0004 | 06 |
| 217 | M33VBA*INV2 | VIAC-2 INVERTER | 3345B | EDC | IVT | CB | WEST SWITCHGEAR ROOM | 0004 | |
| 218 | M33VBA*INV3 | INVERTER 3 | 3345B | EDC | IVT | CB | EAST SWGR ROOM | 0004 | |
| 219 | M33VBA*INV4 | VIAC-4 INVERTER | 3345B | EDC | IVT | CB | WEST SWITCHGEAR ROOM | 0004 | |
| 220 | M3G-3RHS*FCV610 | FLOW CONTROL VALVE INDICATING LIGHT | 3307B | RHR | LCT | | | | |
| 221 | M3G-3RHS*FCV611 | FLOW CONTROL VALVE INDICATING LIGHT | 3307B | RHR | LCT | | | | |
| 222 | M3R-3RHS*FCV610 | FLOW CONTROL VALVE INDICATING LIGHT | 3307B | RHR | LCT | | | | |
| 223 | M3R-3RHS*FCV611 | FLOW CONTROL VALVE INDICATING LIGHT | 3307B | RHR | LCT | | | | |
| 224 | M332R | 480 VOLT LOAD CENTER BUS 32R | 3344A | ES0 | LCT | AB | EAST MCC ROD CONTROL | 0024 | 06 |
| 225 | M332S | 480 VOLT LOAD CENTER 32S | 3344A | ES0 | LCT | AB | EAST MCC ROD CONTROL | 0024 | 06 |
| 226 | M332T | 480 VOLT LOAD CENTER BUS 32T(3EJS*US-1A) | 3344A | ES0 | LCT | CB | EAST SWITCHGEAR RM. | 0004 | 06 |
| 227 | M332U | 480 VOLT LOAD CENTER BUS 32U (3EJS*US-1B) | 3344A | ES0 | LCT | CB | WEST SWITCHGEAR ROOM | 0004 | 06 |
| 228 | M332V | 480 VOLT LOAD CENTER BUS 32V | 3344A | ES0 | LCT | AB | WEST MCC ROD CONTROL | 0024 | 06 |
| 229 | M332W | LOAD CENTER 32W | 3344A | ES0 | LCT | AB | WEST MCC ROD CONTROL | 0024 | 06 |
| 230 | M332X | 480 VOLT LOAD CENTER 32X | 3344A | ES0 | LCT | AB | WEST MCC ROD CONTROL | 0024 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 231 | M332Y | 480 VOLT LOAD CENTER 32Y | 3344A | ES0 | LCT | AB | EAST MCC ROD CONTROL | 0024 | 06 |
| 232 | M332-1R | 480V AC MOTOR CONTROL CENTER | 3344B | ELC | MCC | AB | | 0024 | |
| 233 | M332-1T | 480V MCC 32-1T (EMERG) EMERGENCY GENERATOR | 3344B | ELC | MCC | DG | | 0024 | |
| 234 | M332-1U | 480V MCC 32-1U(EMERG) DIESEL GENERATOR BLDG | 3344B | ELC | MCC | DG | | 0024 | |
| 235 | M332-1W | 480 VOLT MCC 32-1W(EMERG) AUX BLDG | 3344B | ELC | MCC | AB | | 0024 | |
| 236 | M332-2R | 480 VOLT MCC 32-2R(EMERG) ROD CONTROL | 3344B | ELC | MCC | AB | | 0024 | |
| 237 | M332-2RA | 480V MCC 32-2RA (EMER) RX COOLANT ISOL VLVS STARTERS | 3344B | ELC | MCC | AB | | 0024 | |
| 238 | M332-2T | 480 VOLT MCC 32-2T(EMERG) CONTROL BLDG. | 3344B | ES0 | MCC | CB | | 0004 | 06 |
| 239 | M332-2U | 480V MCC 32-2U (EMERGENCY) CONTROL BLDG | 3344B | ELC | MCC | CB | | 0004 | 06 |
| 240 | M332-2W | 480V MCC 32-2W(EMERG) ROD CONTROL | 3344B | ELC | MCC | AB | | 0024 | |
| 241 | M332-3U | 480 VOLT MCC (EMERG) | 3344B | ELC | MCC | ES | | 0036 | 06 |
| 242 | M332-4T | 480V MCC | 3344B | ELC | MCC | ES | | 0036 | |
| 243 | M332-4U | VITAL MOTOR CONTROL CENTER | 3344B | ELC | MCC | ES | SOUTH | 0036 | |
| 244 | M332-5T | 480 VOLT MCC 32-5T(EMERG) CIRC WATER PUMP HOUSE | 3344B | ELC | MCC | CW | | 0014 | |
| 245 | M332-5U | 480 VOLT MCC 32-5U(EMERG) CIRC WATER PUMPHOUSE | 3344B | ELC | MCC | CW | | 0014 | |
| 246 | M33EHS*MCC2B1 | 480 VOLT MCC 3EHS*MCC2B1 (EMERG) AUX BUILDING | 3344B | ELC | MCC | AB | | 0045 | 06 |
| 247 | M33EHS*MCC2B2 | 480 VOLT MCC 3EHS*MCC2B2 (EMERG) AUX BUILDING | 3344B | ELC | MCC | AB | | 0045 | 06 |
| 248 | M33EHS*MCC3A1 | 480 VOLT MCC 3EHS*MCC3A1 ((BUS 32-1R(F3J)) | 3344B | ELC | MCC | AB | MCC/ROD CONTROL | 0024 | 06 |
| 249 | M33EHS*MCC3B1 | 480 VOLT MCC 3EHS*MCC3B1 ((BUS 32-1W(F3J)) | 3344B | ELC | MCC | AB | MCC/ROD CONTROL | 0024 | 06 |
| 250 | M33HVR*MOD140A | AUX BLDG FLT SYS VLV | 3314A | RBV | MOD | AB | | 0089 | |
| 251 | M33HVR*MOD140B | AUX BLDG FLT SYS VLV, INLET TO FN6B | 3314A | RBV | MOD | AB | | 0066 | 06 |
| 252 | M33HVR*MOD28A | 3HVR*FN6A OUTLET DAMPER | 3314A | RBV | MOD | AB | | 0089 | |
| 253 | M33HVR*MOD28B | 3HVR*FN6B OUTLET DAMPER | 3314A | RBV | MOD | AB | | 0073 | |
| 254 | M33HVR*MOD49A | CHG PP CUBICLE OUTLET DAMPER (H.P SURVEY PRIOR) | 3314A | RBV | MOD | AB | 3CHS*TK5A-BORIC ACID | 0045 | |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 255 | M33HVR*MOD49B | CHG PP CUBICLE OUTLET DAMPER (H.P SURVEY PRIOR) | 3314A | RBV | MOD | AB | 3CHS*TK5A BORIC ACID | 0043 | |
| 256 | M33HVR*MOD49C1 | CHG PP CUBICLE OUTLET DAMPER | 3314A | RBV | MOD | AB | BEHIND CHS-TK5B | 0043 | 06 |
| 257 | M33HVR*MOD49C2 | CHG PP CUBICLE OUTLET DAMPER | 3314A | RBV | MOD | AB | BEHIND CHS-TK5B | 0043 | |
| 258 | M33HVR*MOD50A | CHG PP CUBICLE INLET DAMPER | 3314A | RBV | MOD | AB | PASSAGE WAY | 0043 | |
| 259 | M33HVR*MOD50B | CHG PP CUBICLE INLET DAMPER | 3314A | RBV | MOD | AB | | 0043 | |
| 260 | M33HVR*MOD50C1 | CHG PP CUBICLE INLET DAMPER | 3314A | RBV | MOD | AB | IN HALLWAY | 0043 | |
| 261 | M33HVR*MOD50C2 | CHG PP CUBICLE INLET DAMPER | 3314A | RBV | MOD | AB | | 0043 | |
| 262 | M33HVR*MOD72A | FUEL BLDG FLTR EXHAUST FAN OUTLET DAMPER | 3314C | RBV | MOD | AB | STH OF HVR*FN10A | 0089 | |
| 263 | M33HVR*MOD72B | FUEL BLDG FLTR EXHAUST FAN OUTLET DAMPER | 3314C | RBV | MOD | AB | STH OF HVR*FN10B | 0066 | |
| 264 | M33HVQ*MOD26A1 | AUXILIARY FEEDWATER PUMP AREA VENTILATION INLET & EXHAUST | 3314D | ESG | MOD | ES | | 0038 | |
| 265 | M33HVQ*MOD26A2 | AUXILIARY FEEDWATER PUMP AREA VENTILATION INLET & EXHAUST | 3314D | ESG | MOD | ES | FAR SOUTH | | |
| 266 | M33HVQ*MOD26B1 | AUXILIARY FEEDWATER PUMP AREA VENTILATION INLET & EXHAUST | 3314D | ESG | MOD | ES | | 0047 | |
| 267 | M33HVQ*MOD26B2 | AUXILIARY FEEDWATER PUMP AREA VENTILATION INLET & EXHAUST | 3314D | ESG | MOD | ES | FAR SOUTH | 0047 | |
| 268 | M33HVQ*MOD26C1 | AUXILIARY FEEDWATER PUMP AREA VENTILATION INLET & EXHAUST | 3314D | ESG | MOD | ES | | 0043 | |
| 269 | M33HVQ*MOD26C2 | AUXILIARY FEEDWATER PUMP AREA VENTILATION INLET & EXHAUST | 3314D | ESG | MOD | ES | | 0043 | |
| 270 | M33HVC*MOD33A | CNTL BLDG EMER VENT FAN (1A) INLET DAMPER | 3314F | ACC | MOD | CB | | 0067 | |
| 271 | M33HVC*MOD33B | CNTL BLDG EMER VENT FAN (1B) INLET DAMPER | 3314F | ACC | MOD | CB | | 0064 | 06 |
| 272 | M33HVP*MOD20A | DIESEL GENERATOR ENCLOSURE VENTILATION OUTLET DAMPER ("A" EDG) | 3314H | DGV | MOD | DG | "A" DIESEL | 0049 | |
| 273 | M33HVP*MOD20B | DIESEL GENERATOR ENCLOSURE VENTILATION OUTLET DAMPER ("B" EDG) | 3314H | DGV | MOD | DG | "B" DIESEL | 0049 | |
| 274 | M33HVP*MOD20C | DIESEL GENERATOR ENCLOSURE VENTILATION OUTLET DAMPER ("A" EDG) | 3314H | DGV | MOD | DG | "A" DIESEL | 0049 | |
| 275 | M33HVP*MOD20D | DIESEL GENERATOR ENCLOSURE VENTILATION OUTLET DAMPER ("B" EDG) | 3314H | DGV | MOD | DG | "B" DIESEL | 0049 | |
| 276 | M33HVP*MOD23A | DIESEL GENERATOR ENCLOSURE VENTILATION INLET DAMPER ("A" EDG) | 3314H | DGV | MOD | DG | "A" DIESEL | 0043 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 277 | M33HVP*MOD23B | DIESEL GENERATOR ENCLOSURE VENTILATION INLET DAMPER ("B" EDG) | 3314H | DGV | MOD | DG | "B" DIESEL | 0043 | |
| 278 | M33HVP*MOD26A | DIESEL GENERATOR ENCLOSURE RECIRC DAMPER ("A" EDG) | 3314H | DGV | MOD | DG | "A" DIESEL | 0038 | |
| 279 | M33HVP*MOD26B | DIESEL GENERATOR ENCLOSURE RECIRC DAMPER ("B" EDG) | 3314H | DGV | MOD | DG | "B" DIESEL | 0038 | |
| 280 | M33RCS*MV8000A | POWER OPERATED RELIEF VALVE BLOCK | 3301 | RCS | MOV | CS | PRESSURIZER CUBE | 0077 | |
| 281 | M33RCS*MV8000B | PRESSURIZER RELIEF ISOLATION VALVE | 3301 | RCS | MOV | CS | PRESSURIZER | 0077 | |
| 282 | M33RCS*MV8001A | REACTOR COOLANT LOOP "A" HOT LEG STOP | 3301 | RCS | MOV | CS | CUBICLE A | 0029 | |
| 283 | M33RCS*MV8001B | REACTOR COOLANT LOOP "B" HOT LEG STOP | 3301 | RCS | MOV | CS | CUBICLE B | 0020 | |
| 284 | M33RCS*MV8001C | REACTOR COOLANT LOOP "C" HOT LEG STOP | 3301 | RCS | MOV | CS | CUBICLE C | 0024 | |
| 285 | M33RCS*MV8001D | REACTOR COOLANT LOOP "D" HOT LEG STOP | 3301 | RCS | MOV | CS | CUBICLE D | 0003 | |
| 286 | M33RCS*MV8002A | REACTOR COOLANT LOOP "A" COLD LEG STOP | 3301 | RCS | MOV | CS | CUBICLE A | 0003 | |
| 287 | M33RCS*MV8002B | REACTOR COOLANT LOOP "B" COLD LEG STOP | 3301 | RCS | MOV | CS | CUBICLE B | 0003 | |
| 288 | M33RCS*MV8002C | REACTOR COOLANT LOOP "C" COLD LEG STOP | 3301 | RCS | MOV | CS | CUBICLE C | 0024 | |
| 289 | M33RCS*MV8002D | REACTOR COOLANT LOOP "D" COLD LEG STOP | 3301 | RCS | MOV | CS | CUBICLE D | 0003 | |
| 290 | M33RCS*MV8003A | REACTOR COOLANT LOOP "A" BYPASS VALVE | 3301 | RCS | MOV | CS | CUBICLE A | 0024 | |
| 291 | M33RCS*MV8003B | REACTOR COOLANT LOOP "B" BYPASS VALVE | 3301 | RCS | MOV | CS | CUBICLE B | 0024 | |
| 292 | M33RCS*MV8003C | REACTOR COOLANT LOOP "C" BYPASS VALVE | 3301 | RCS | MOV | CS | CUBICLE C | 0024 | |
| 293 | M33RCS*MV8003D | REACTOR COOLANT LOOP "D" BYPASS VALVE | 3301 | RCS | MOV | CS | CUBICLE D | 0024 | |
| 294 | M33RCS*MV8098 | REACTOR VESSEL HEAD VENT TO EXCESS LETDOWN VALVE | 3301 | RCS | MOV | CS | EXCESS LETDOWN HX | -010 | |
| 295 | M33SIH*MV8801A | CHARGING PUMP SI HEADER ISOL | 3308 | HPI | MOV | AB | MEZZANINE CTMT PENET | 0004 | |
| 296 | M33SIH*MV8801B | CHARGING PUMP SI HEADER ISOL | 3308 | HPI | MOV | AB | MEZZANINE CTMT PENET | 0004 | |
| 297 | M33SIH*MV8802A | A SI PUMP TO HOT LEG INJ | 3308 | HPI | MOV | ES | BEHIND QSS PUMP A | 0021 | 06 |
| 298 | M33SIH*MV8802B | B SI PUMP TO HOT LEG INJ | 3308 | HPI | MOV | ES | BEHIND QSS PUMP B | 0021 | 06 |
| 299 | M33SIH*MV8806 | RWST SUPPLY TO SI PUMPS | 3308 | HPI | MOV | ES | UNDER SIH PP'S | 0049 | 04 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 300 | M33SIH*MV8807A | LOW PRESS SI CHARGING PUMP SUCT XCONN | 3308 | HPI | MOV | ES | HPSI-A-PUMP | 0021 | 06 |
| 301 | M33SIH*MV8807B | LOW PRESS SI CHARGING PUMP SUCT XCONN | 3308 | HPI | MOV | ES | HPS1-PUMP-A | 0021 | 06 |
| 302 | M33SIH*MV8813 | SI PUMPS MASTER MINIFLOW ISOL | 3308 | HPI | MOV | ES | ESF BLDG SUMP PUMP | 0004 | 06 |
| 303 | M33SIH*MV8814 | A SI PUMP MINIFLOW ISOL | 3308 | HPI | MOV | ES | HPSI PUMP A | 0021 | 06 |
| 304 | M33SIH*MV8821A | A SI PUMP TO COLD LEG INJ | 3308 | HPI | MOV | ES | BEHIND QSS PUMP A | 0021 | 06 |
| 305 | M33SIH*MV8821B | B SI PUMP TO COLD LEG INJ | 3308 | HPI | MOV | ES | BEHIND QSS PUMP A | 0021 | 06 |
| 306 | M33SIH*MV8835 | SI COLD LEG MASTER ISOL | 3308 | HPI | MOV | ES | MEZZ BHND QSS PMP | 0021 | 06 |
| 307 | M33SIH*MV8920 | B SI PUMP MINIFLOW ISOL | 3308 | HPI | MOV | ES | HPSI-PUMP-B | 0021 | 06 |
| 308 | M33SIH*MV8923A | A SI PUMP SUCTION ISOL | 3308 | HPI | MOV | ES | HPSI-A-PUMP | 0021 | 06 |
| 309 | M33SIH*MV8923B | B SI PUMP SUCTION ISOL | 3308 | HPI | MOV | ES | HPSI-PUMP-B | 0021 | 06 |
| 310 | M33SIH*MV8924 | LPSI CHARGING PUMP SUCTION DIVISION | 3308 | HPI | MOV | ES | HPSI PUMP A | 0024 | 06 |
| 311 | M33FWA*MOV35A | STEAM GENERATOR AUXILIARY FDW ISOLATION VALVE | 3322 | AFW | MOV | ES | A/C RHR HX CUBICLE | 0040 | |
| 312 | M33FWA*MOV35B | STEAM GENERATOR AUXILIARY FEEDWATER ISOLATION | 3322 | AFW | MOV | ES | | 0021 | 06 |
| 313 | M33FWA*MOV35C | STEAM GENERATOR FEEDWATER ISOLATION | 3322 | AFW | MOV | ES | | 0021 | |
| 314 | M33FWA*MOV35D | STEAM GENERATOR AUXILIARY FDW ISOLATION VALVE | 3322 | AFW | MOV | ES | A/C RHR HX CUBICLE | 0040 | |
| 315 | M33SWP*MOV102A | "A" SERVICE WATER PUMP DISCHARGE VALVE | 3326 | SWS | MOV | CW | NORTH SW CUBICLE | 0014 | 06 |
| 316 | M33SWP*MOV102B | "B" SERVICE WATER PUMP DISCHARGE VALVE | 3326 | SWS | MOV | CW | | 0014 | 06 |
| 317 | M33SWP*MOV102C | "C" SERVICE WATER PUMP DISCHARGE VALVE | 3326 | SWS | MOV | CW | NORTH SW PP CUBICLE | 0014 | 06 |
| 318 | M33SWP*MOV102D | "D" SERVICE WATER PUMP DISCHARGE VALVE | 3326 | SWS | MOV | CW | SOUTH SRVICE H20 CUB | 0014 | 06 |
| 319 | M33SWP*MOV115A | CIRCULATING WATER PUMP LUBE WATER VALVE | 3326 | SWS | MOV | CW | | 0014 | |
| 320 | M33SWP*MOV115B | CIRCULATING WATER PUMP LUBE WATER VALVE | 3326 | SWS | MOV | CW | CHLORINE PIT | 0014 | |
| 321 | M33SWP*MOV24A | STRAINER "A" BACKWASH VALVE | 3326 | SWS | MOV | CW | NO SW PP CUBICLE | 0014 | 06 |
| 322 | M33SWP*MOV24B | STRAINER "B" BACKWASH | 3326 | SWS | MOV | CW | SO SW CUBICLE | 0014 | 06 |
| 323 | M33SWP*MOV24C | SERVICE PUMP C DISCHARGE STRAINER BACKWASH VALVE | 3326 | SWS | MOV | CW | NO SW CUBICLE | 0014 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 324 | M33SWP*MOV24D | STRAINER "D" BACKWASH | 3326 | SWS | MOV | CW | SOUTH SW CUBICLE | 0014 | 06 |
| 325 | M33SWP*MOV50A | RX PLANT CMPNT COOLING HEAT EXCHANGER SUPPLY VALVE | 3326 | SWS | MOV | AB | RPCCW | 0024 | 06 |
| 326 | M33SWP*MOV50B | RX PLANT CMPNT COOLING HEAT EXCHANGER SUPPLY VALVE | 3326 | SWS | MOV | AB | | 0024 | |
| 327 | M33SWP*MOV54A | CTMT RECIRC CLR SUPPLY VLV *ALL WORK PRIORITY 2* | 3326 | SWS | MOV | ES | UNDER FWA PP'S | 0004 | |
| 328 | M33SWP*MOV54B | CTMT RECIRC COOLER INLET | 3326 | SWS | MOV | ES | UNDER FWA PP'S | 0004 | 06 |
| 329 | M33SWP*MOV54C | CTMT RECIRC CLR INLET *ALL WORK PRIORITY 2* | 3326 | SWS | MOV | ES | UNDER FWA PP'S | 0004 | 06 |
| 330 | M33SWP*MOV54D | CTMT RECIRC COOLER INLET | 3326 | SWS | MOV | ES | UNDER FWA PP'S | 0004 | 06 |
| 331 | M33SWP*MOV57A | "A" CONTAINMENT RECIRCULATION COOLER OUTLET | 3326 | SWS | MOV | ES | CONT. RECIR. CLR. RM | 0037 | 06 |
| 332 | M33SWP*MOV57B | SERVICE WATER COOLER OUTLET VALVE | 3326 | SWS | MOV | ES | CONT. RECIR. CLR. RM | 0037 | 06 |
| 333 | M33SWP*MOV57C | "C" CONTAINMENT RECIRCULATION COOLER OUTLET | 3326 | SWS | MOV | ES | CONT. RECIR. CLR. RM | 0037 | 06 |
| 334 | M33SWP*MOV57D | SERVICE WATER COOLER OUTLET VALVE | 3326 | SWS | MOV | ES | CONT. RECIR. CLR. RM | 0037 | 06 |
| 335 | M33SWP*MOV71A | SERVICE WATER SUPPLY TO TPCCW HEAT EXCHANGERS | 3326 | SWS | MOV | AB | | 0004 | 06 |
| 336 | M33SWP*MOV71B | SERVICE WATER HEAT EXCHANGER INLET VALVE | 3326 | SWS | MOV | AB | | 0004 | 06 |
| 337 | M33SWP*TV35A | CONTROL BLDG AIR CONDITIONING OUTLET | 3326 | SWS | MOV | CB | CHILLER ROOM | 0076 | 00 |
| 338 | M33SWP*TV35B | CONTROL BLDG AIR CONDITIONING INLET | 3326 | SWS | MOV | CB | CHILLER ROOM | 0064 | 00 |
| 339 | M33SWP*TV35-SPARE | CONTROL BLDG AIR CONDITIONING OUTLET SPARE | 3326 | SWS | MOV | | | 0000 | 00 |
| 340 | M33CHS*LCV112B | VCT OUTLET ISOLATION | 3304A | CVC | MOV | AB | VCT | 0043 | 06 |
| 341 | M33CHS*LCV112C | VCT OUTLET ISOLATION | 3304A | CVC | MOV | AB | VCT ROOM | 0043 | 06 |
| 342 | M33CHS*LCV112D | RWST SUPPLY TO CHARGING PUMP SUCTION | 3304A | CVC | MOV | AB | PIPE TUNNEL (ABOVE) | 0006 | 06 |
| 343 | M33CHS*LCV112E | RWST SUPPLY TO CHARGING PUMP SUCTION | 3304A | CVC | MOV | AB | ABOVE FB PIPE TUNNEL | 0004 | 06 |
| 344 | M33CHS*MV8100 | SEAL WATER RETURN CTMT ISOL | 3304A | CVC | MOV | AB | PENETRATION #23 | 0004 | 06 |
| 345 | M33CHS*MV8105 | CHARGING HEADER ISOLATION | 3304A | CVC | MOV | AB | CTMT PIPE PEN. 26 | 0004 | 06 |
| 346 | M33CHS*MV8106 | CHARGING FLOW CONTROLLER ISOLATION | 3304A | CVC | MOV | AB | CTMT PIPE PEN. 26 | 0004 | 06 |
| 347 | M33CHS*MV8109A | RCP A SEAL SUPPLY ISOLATION | 3304A | CVC | MOV | AB | MEZZANINE PENET #16 | 0004 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 348 | M33CHS*MV8109B | RCP B SEAL SUPPLY ISOLATION | 3304A | CVC | MOV | AB | MEZZANINE PENET #17 | 0004 | 06 |
| 349 | M33CHS*MV8109C | RCP C SEAL SUPPLY ISOLATION | 3304A | CVC | MOV | AB | MEZZANINE PENET #18 | 0004 | 06 |
| 350 | M33CHS*MV8109D | RCP D SEAL SUPPLY ISOLATION | 3304A | CVC | MOV | AB | MEZZANINE PENET #19 | 0004 | 06 |
| 351 | M33CHS*MV8110 | CHARGING RECIRC ISOL TO SEAL WATER | 3304A | CVC | MOV | AB | CHARGING PUMP RM A | 0024 | 06 |
| 352 | M33CHS*MV8111A | CHARGING PUMP 3A RECIRC ISOL | 3304A | CVC | MOV | AB | CHARGING PUMP RM A | 0024 | 06 |
| 353 | M33CHS*MV8111B | CHARGING PUMP 3B RECIRC ISOL | 3304A | CVC | MOV | AB | CHG PP RM "B" | 0024 | 06 |
| 354 | M33CHS*MV8111C | CHARGING PUMP 3C RECIRC ISOL | 3304A | CVC | MOV | AB | CHG PP RM "C" | 0024 | 06 |
| 355 | M33CHS*MV8112 | SEAL WATER RETURN CTMT ISOL | 3304A | CVC | MOV | CS | 6' INBOARD OF COL 2 | 0003 | 08 |
| 356 | M33CHS*MV8116 | SAFETY GRADE S/D CHARGING ISOL | 3304A | CVC | MOV | AB | MEZZANINE, PENS. | 0007 | |
| 357 | M33CHS*MV8438A | CHARGING PUMP A/C DISCHARGE ISOL | 3304A | CVC | MOV | AB | CHG PP RM A | 0024 | 06 |
| 358 | M33CHS*MV8438B | CHARGING PUMP B/C DISCHARGE ISOL | 3304A | CVC | MOV | AB | CHG PP RM B | 0024 | 06 |
| 359 | M33CHS*MV8438C | CHARGING HEADER XCONN | 3304A | CVC | MOV | AB | CHG PP RM A | 0024 | 06 |
| 360 | M33CHS*MV8468A | LPSI TO CHARGING SUCTION ISOL | 3304A | CVC | MOV | AB | CHG PP RM A | 0024 | 06 |
| 361 | M33CHS*MV8468B | LPSI TO CHARGING SUCTION ISOL | 3304A | CVC | MOV | AB | CHG PP RM "B" | 0024 | 06 |
| 362 | M33CHS*MV8511A | CHARGING PUMP RELIEF ISOL TRAIN A | 3304A | CVC | MOV | AB | 3CHS*P3C CUBE | 0024 | 06 |
| 363 | M33CHS*MV8511B | CHARGING PUMP RELIEF ISOL TRAIN B | 3304A | CVC | MOV | AB | 3CH*P3C CUBE | 0024 | 06 |
| 364 | M33CHS*MV8512A | CHARGING PUMP RELIEF ISOL TRAIN B | 3304A | CVC | MOV | AB | 3CHS*P3C CUBE | 0024 | 06 |
| 365 | M33CHS*MV8512B | CHARGING PUMP RELIEF ISOL TRAIN A | 3304A | CVC | MOV | AB | 3CHS*P3C CUBE | 0024 | 06 |
| 366 | M33CHS*MV8104 | EMERGENCY BORATION | 3304C | CVC | MOV | AB | CHARGING PUMP A | 0024 | 06 |
| 367 | M33CHS*MV8507A | BAT A GRAVITY BORATION | 3304C | CVC | MOV | AB | BAT (A) | 0043 | 06 |
| 368 | M33CHS*MV8507B | BAT B GRAVITY BORATION | 3304C | CVC | MOV | AB | BAT (B) | 0049 | 06 |
| 369 | M33SIL*MV8804A | LPSI TO CHARGING PUMP SUCTION | 3307A | LPI | MOV | ES | UNDER HPSI PUMPS | 0007 | |
| 370 | M33SIL*MV8804B | RHR B DISCH TO SI PUMP | 3307A | LPI | MOV | ES | BELOW HPSI PUMP B | 0013 | |
| 371 | M33SIL*MV8808A | SI ACCUMULATOR TANK 1 OUTLET ISOL | 3307A | LPI | MOV | CS | ACCUM A | -024 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 372 | M33SIL*MV8808B | SI ACCUMULATOR TANK 2 OUTLET ISOL | 3307A | LPI | MOV | CS | ACCUM B | -024 | 06 |
| 373 | M33SIL*MV8808C | SI ACCUMULATOR TANK 3 OUTLET ISOL | 3307A | LPI | MOV | CS | ACCUM C | -024 | 06 |
| 374 | M33SIL*MV8808D | SI ACCUMULATOR TANK 4 OUTLET ISOL | 3307A | LPI | MOV | CS | ACCUM. D | -024 | 06 |
| 375 | M33RHS*FCV610 | RESIDUAL HEAT REMOVAL PUMP P1A MINIFLOW RECIRC | 3307B | RHR | MOV | ES | (A) RHR PUMP | 0004 | |
| 376 | M33RHS*FCV611 | RESIDUAL HEAT REMOVAL MINI FLOW RECIRCULATING VALVE | 3307B | RHR | MOV | ES | "B" RHR CUBICLE | 0004 | |
| 377 | M33RHS*MV8701A | RESIDUAL HEAT REMOVAL LOOP A OUTBOARD ISOLATION VALVE | 3307B | RHR | MOV | CS | OUTSIDE CUB. "D" | 0012 | 08 |
| 378 | M33RHS*MV8701B | RESIDUAL HEAT REMOVAL PUMP SUCTION VALVE FROM RCS | 3307B | RHR | MOV | ES | RHR CUB. "A" P1A | 0007 | |
| 379 | M33RHS*MV8701C | RESIDUAL HEAT REMOVAL INBOARD ISOLATION VALVE | 3307B | RHR | MOV | CS | CUB."A" UNDER S/G | 0020 | |
| 380 | M33RHS*MV8702A | RHR PUMP SUCT ISOL FROM RCS | 3307B | RHR | MOV | ES | RHS CUB. "B" E1B | 0007 | |
| 381 | M33RHS*MV8702B | RESIDUAL HEAT REMOVAL LOOP B OUTBOARD ISOLATION VALVE | 3307B | RHR | MOV | CS | OUTSIDE CUB. "D" | 0012 | 08 |
| 382 | M33RHS*MV8702C | RESIDUAL HEAT REMOVAL SYSTEM INBOARD ISOLATION VALVE | 3307B | RHR | MOV | CS | CUB. "D" UNDER S/G | 0020 | |
| 383 | M33RHS*MV8716A | A RHR DISCHARGE TO HOT LEGS AND RWST | 3307B | RHR | MOV | ES | RHR CUB. A | 0021 | |
| 384 | M33RHS*MV8716B | B RHR DISCHARGE TO HOT LEGS AND RWST | 3307B | RHR | MOV | ES | RHR B CUB. | 0021 | |
| 385 | M33SIL*MV8809A | RHR A DISCH TO COLD LEG INJECTION | 3307B | LPI | MOV | ES | RHR A CUBE | 0008 | 06 |
| 386 | M33SIL*MV8809B | RHR B DISCH TO COLD LEG INJECTION | 3307B | LPI | MOV | ES | RHR B CUBE | 0015 | 06 |
| 387 | M33SIL*MV8812A | "A" RHR PUMP SUCTION FROM RWST | 3307B | LPI | MOV | ES | (A) RHR PUMP | 0008 | |
| 388 | M33SIL*MV8812B | "B" RHR PUMP SUCTION FROM RWST | 3307B | LPI | MOV | ES | (B) RHR PUMP | 0008 | |
| 389 | M33SIL*MV8840 | RESIDUAL HEAT RMVL PUMP TO HOT LEGS CTMT PENET (95-OUTSIDE) | 3307B | LPI | MOV | ES | RHR B CUBE-SW OF PMP | 0015 | 06 |
| 390 | M33HVK*MOV1003A | (A) CONTROL BUILDING CHILLER;HOT GAS BYPASS VALVE | 3314F | CBW | MOV | CB | | 0000 | 00 |
| 391 | M33HVK*MOV1003B | (B) CONTROL BUILDING CHILLER;HOT GAS BYPASS VALVE | 3314F | CBW | MOV | CB | | 0000 | 00 |
| 392 | M33MSS*MOV17A | AUX FDW PUMP TURBINE STEAM SUPPLY NON RETURN VALVE | 3316A | STG | MOV | ES | AUX FEED PUMP #2 | 0021 | |
| 393 | M33MSS*MOV17B | AUX FDW PUMP TURBINE STEAM SUPPLY NON RETURN VALVE | 3316A | STG | MOV | ES | AUX FEED PUMP #2 | 0021 | |
| 394 | M33MSS*MOV17D | AUX FDW PUMP TURBINE STEAM SUPPLY NON RETURN VALVE | 3316A | STG | MOV | ES | AUX FEED PUMP #2 | 0021 | |
| 395 | M33MSS*MOV18A | MAIN STEAM PRESSURE RELIEF ISOLATION VALVE | 3316A | STG | MOV | MS | OFF OF MS LINE A | 0068 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 396 | M33MSS*MOV18B | MAIN STEAM PRESSURE RELIEF ISOLATION VALVE | 3316A | STG | MOV | MS | OFF OF MS LINE B | 0068 | |
| 397 | M33MSS*MOV18C | MAIN STEAM PRESSURE RELIEF ISOALTION VALVE | 3316A | STG | MOV | MS | OFF OF MS LINE C | 0068 | |
| 398 | M33MSS*MOV18D | MAIN STEAM PRESSURE RELIEF ISOALTION VALVE | 3316A | STG | MOV | MS | OFF MS LINE D | 0068 | |
| 399 | M33MSS*MOV74A | MAIN STEAM PRESSURE RELIEF ISOLATION VALVE BYPASS | 3316A | STG | MOV | MS | OFF MS LINE A | 0068 | |
| 400 | M33MSS*MOV74B | MAIN STEAM PRESSURE RELIEF ISOLATION VALVE BYPASS | 3316A | STG | MOV | MS | OFF OF MS LINE B | 0068 | |
| 401 | M33MSS*MOV74C | MAIN STEAM PRESSURE RELIEF ISOLATION VALVE BYPASS | 3316A | STG | MOV | MS | OFF OF C MS LINE | 0068 | |
| 402 | M33MSS*MOV74D | MAIN STEAM PRESSURE RELIEF ISOLATION VALVE BYPASS | 3316A | STG | MOV | MS | OFF OF DMN STM LINE | 0068 | |
| 403 | M33CCP*MOV222 | TR A CHILLED WATER SUPPLY ISOL | 3330A | CCR | MOV | CS | COLUMN 2 | -024 | |
| 404 | M33CCP*MOV223 | TR A CHILLED WATER SUPPLY ISOL | 3330A | CCR | MOV | CS | | -024 | |
| 405 | M33CCP*MOV224 | TR A CHILLED WATER RETURN ISOL | 3330A | CCR | MOV | CS | COLUMN 2 IMB | -024 | |
| 406 | M33CCP*MOV225 | TR A CHILLED WATER RETURN ISOL | 3330A | CCR | MOV | CS | ABOVE A CAR | -024 | |
| 407 | M33CCP*MOV226 | TR B CHILLED WATER SUPPLY ISOL | 3330A | CCR | MOV | CS | IN MEZZANINE | -024 | |
| 408 | M33CCP*MOV227 | TR B CHILLED WATER SUPPLY ISOL | 3330A | CCR | MOV | CS | ABOVE B CAR | -024 | |
| 409 | M33CCP*MOV228 | TR B CHILLED WATER RETURN ISOL | 3330A | CCR | MOV | CS | IN MEZZANINE | -024 | |
| 410 | M33CCP*MOV229 | TR B CHILLED WATER RETURN ISOL | 3330A | CCR | MOV | CS | ABOVE B CAR | -024 | |
| 411 | M33CCP*MOV45A | TR A RPCCW CTMT SUPPLY HEADER ISOL | 3330A | CCR | MOV | AB | PENETRATION Z39 | 0004 | |
| 412 | M33CCP*MOV45B | TR B RPCCW CTMT SUPPLY HEADER ISOL | 3330A | CCR | MOV | AB | PENETRATION Z40 | 0004 | |
| 413 | M33CCP*MOV48A | TR A RPCCW CTMT RETURN INNER ISOL | 3330A | CCR | MOV | CS | PENETRATION 41 | 0003 | 08 |
| 414 | M33CCP*MOV48B | TR B RPCCW CTMT RETURN INNER ISOL | 3330A | CCR | MOV | CS | IN PASSAGEWAY | 0009 | 03 |
| 415 | M33CCP*MOV49A | TR A RPCCW CTMT RETURN OUTER ISOL | 3330A | CCR | MOV | AB | PENETRATION Z41 | 0004 | |
| 416 | M33CCP*MOV49B | TR B RPCCW CTMT RETURN OUTER ISOL | 3330A | CCR | MOV | AB | PENETRATION Z42 | 0004 | |
| 417 | M33RCS*3301 | REACTOR COOLANT SYSTEM | 3301 | RCS | MSC | CS | | 0000 | 00 |
| 418 | M33RCS*SHLD1 | NEUTRON SHIELD | 3301 | RCS | MSC | CS | | | |
| 419 | M33RCS*SYS3301 | REACTOR COOLANT SYSTEM, VESSEL AND INTERNALS | 3301 | RCS | MSC | CS | VARIOUS | 0000 | 00 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 420 | M33SFC*3305 | SPENT FUEL POOL COOLING AND PURIFICATION | 3305 | SFC | MSC | FB | VARIOUS | 0000 | 00 |
| 421 | M33SIH*3308 | HIGH PRESSURE SAFTY INJECTION | 3308 | HPI | MSC | | | 0000 | 00 |
| 422 | M33FWA*3322 | AUXILIARY FEEDWATER | 3322 | AFW | MSC | TB | | 0000 | 00 |
| 423 | M33FWA*FLS1A | AUXILIARY FEEDWATER TO SG1A SPECTACLE FLANGE | 3322 | AFW | MSC | CS | SG1A CUBICLE | 0066 | |
| 424 | M33FWA*FLS1B | AUXILIARY FEEDWATER TO SG1B SPECTACLE FLANGE | 3322 | AFW | MSC | CS | SG1B CUBICLE | 0066 | |
| 425 | M33FWA*FLS1C | AUXILIARY FEEDWATER TO SG1C SPECTACLE FLANGE | 3322 | AFW | MSC | CS | SG1C CUBICLE | 0066 | |
| 426 | M33FWA*FLS1D | AUXILIARY FEEDWATER TO SG1D SPECTACLE FLANGE | 3322 | AFW | MSC | CS | SG1D CUBICLE | 0066 | |
| 427 | M33FWL*SYS3322 | AUXILIARY FEEDWATER LUBE OIL & DEMIN WTR STORAGE TK (S&W 3322A) | 3322 | FWL | MSC | CW | VARIOUS | 0000 | 00 |
| 428 | M33SWP*3326 | SERVICE WATER SYSTEM | 3326 | SWS | MSC | | | 0000 | 00 |
| 429 | M33ENS*3343 | 4.16 KV ELECTRICAL EQUIPMENT (VITAL) | 3343 | ES4 | MSC | CB | | 0014 | 06 |
| 430 | M33CES*3415 | CONTROL CKT. CABINETS | 3415 | ELC | MSC | CB | RACK ROOM | 0000 | 00 |
| 431 | M33CHS*3304 | CHEMICAL & VOLUME CONTROL | 3304A | CVC | MSC | | | 0000 | 00 |
| 432 | M33CHS*3304A | CHEMICAL & VOLUME CONTROL | 3304A | CVC | MSC | | | 0000 | 00 |
| 433 | M33CHS*EJ1A | FLEX HOSE ON #1 SEAL LEAK OFF FOR 3RCS*P1A | 3304A | CVC | MSC | CS | | 0018 | |
| 434 | M33CHS*EJ1B | FLEX HOSE ON #1 SEAL LEAK OFF FOR 3RCS*P1B | 3304A | CVC | MSC | CS | | 0018 | |
| 435 | M33CHS*EJ1C | FLEX HOSE ON #1 SEAL LEAK OFF FOR 3RCS*P1C | 3304A | CVC | MSC | CS | | 0018 | |
| 436 | M33CHS*EJ1D | FLEX HOSE ON #1 SEAL LEAK OFF FOR 3RCS*P1D | 3304A | CVC | MSC | CS | | 0018 | |
| 437 | M33CHS*3304C | PRIMARY MAKEUP AND CHEMICAL ADDITION | 3304C | CVC | MSC | | | 0000 | 00 |
| 438 | M33SIL*3307A | LOW PRESSURE SAFETY INJECTION SYSTEM MICSELLANEOUS ID | 3307A | LPI | MSC | CS | VARIOUS | 0000 | 00 |
| 439 | M33SIL*3307B | LOW PRESSURE SAFETY INJECTION (VITAL) | 3307A | LPI | MSC | | | 0000 | 00 |
| 440 | M33SIL*UY/762T | SFTY INJ ACC TKS NIT VNT VLV 3SIL*HCV943B MASTER TEST | 3307A | LPI | MSC | CB | | 0047 | 06 |
| 441 | M33RHS*3307B | RESIDUAL HEAT REMOVAL | 3307B | RHR | MSC | | | 0000 | 00 |
| 442 | M33HVR*3314A | AUXILIARY BUILDING HVAC SYSTEM | 3314A | RBV | MSC | AB | | 0066 | 06 |
| 443 | M33HVR*3314C | FUEL BLDG HVAC SYSTEM;HVR/HVF,VENTILATION,FILTRATION. | 3314C | RBV | MSC | FB | | 0000 | 00 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 444 | M33HVQ*3314D | ESF BLDG HVAC SYSTEM | 3314D | ESG | MSC | ES | | 0000 | 00 |
| 445 | M33HVC*3314F | CONTROL BLDG.HVAC;BLDG PURGE,BTY ROOM HVAC,COM & INST RACK A/C | 3314F | ACC | MSC | CB | | 0000 | 00 |
| 446 | M33HVP*3314H | EMERGENCY GENERATOR ENCLOSURE VENTILATION SYSTEM | 3314H | DGV | MSC | DG | | 0041 | |
| 447 | M33DTM*3316A | MAIN STEAM & RELIEF VENTS & DRAINS. | 3316A | DTM | MSC | | | 0000 | 00 |
| 448 | M33MSS*3316A | MAIN STEAM SYSTEM | 3316A | STG | MSC | | | 0000 | 00 |
| 449 | M33SVV*3316A | MAIN STEAM VENTS AND DRAINS | 3316A | VDM | MSC | MS | | 0000 | 00 |
| 450 | M3AA-3MSS*CTV27A | VALVE POSITION INDICATION AND POWER SUPPLY CHASSIS (MB5) | 3316A | STG | MSC | | | | |
| 451 | M3AA-3MSS*CTV27B | VALVE POSITION INDICATION AND POWER SUPPLY CHASSIS (MB5) | 3316A | STG | MSC | | | | |
| 452 | M3AA-3MSS*CTV27C | VALVE POSITION INDICATION AND POWER SUPPLY CHASSIS (MB5) | 3316A | STG | MSC | | | | |
| 453 | M3AA-3MSS*CTV27D | VALVE POSITION INDICATION AND POWER SUPPLY CHASSIS (MB5) | 3316A | STG | MSC | | | | |
| 454 | M33CCP*3330A | CCP SYS | 3330A | CCR | MSC | AB | | 0000 | 00 |
| 455 | M33CCP*FLS2A | SPECTACLE FLANGE DOWNSTREAM OF 3CCP*V018 | 3330A | CCR | MSC | CS | | 0003 | 08 |
| 456 | M33CCP*FLS2B | SPECTACLE FLANGE DOWNSTERAM OF 3CCP*V060 | 3330A | CCR | MSC | CS | | 0012 | 06 |
| 457 | M33CCP*FLS3A | SPECTACLE FLANGE UPSTREAM OF 3CCP*MOV48A | 3330A | CCR | MSC | CS | | 0003 | 08 |
| 458 | M33CCP*FLS3B | SPECTACLE FLANGE UPSTREAM OF 3CCP*MOV48B | 3330A | CCR | MSC | CS | | 0003 | 08 |
| 459 | M33CCE*3330D | CHARGING PUMP COOLING | 3330D | CCE | MSC | | | 0000 | 00 |
| 460 | M33EJS*3344A | 480 VOLT VITAL LOAD CENTERS EJS/NJS | 3344A | ELC | MSC | | | 0000 | 00 |
| 461 | M33EHS*3344B | 480 VOLT VITAL MOTOR CONTROL CENTERS | 3344B | ELC | MSC | | | 0000 | 00 |
| 462 | M33EHS*SYS3344B | STATION ELECTRICAL SERVICE 480V MOTOR CONTROL CENTERS EHS/NHS | 3344B | ES0 | MSC | | | 0000 | 00 |
| 463 | M33MCC*3344B | 480 VOLT MOTOR CONTROL CENTERS (VITAL) | 3344B | ES0 | MSC | | | 0000 | 00 |
| 464 | M33VBA*3345B | 120V VITAL INSTRUMENT AC | 3345B | ELC | MSC | CB | | 0004 | 06 |
| 465 | M33BYS*3345C | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | MSC | | | 0000 | 00 |
| 466 | M315G-14U | DIESEL GENERATOR 'A' ELECTRICAL SYSTEM | 3346A | DGN | MSC | | | 0000 | 00 |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 467 | M315G-15U | DIESEL GENERATOR 'B' ELECTRICAL SYSTEM | 3346A | DGN | MSC | DG | | 0000 | 00 |
| 468 | M33EGA*3346A | DIESEL AIR START SYSTEM | 3346A | DSA | MSC | | | 0000 | 00 |
| 469 | M33EGD*3346A | DIESEL EXHAUST, COMBUSTION AIR & CRANKCASE VACUUM | 3346A | DAX | MSC | DG | D/G ENCLOSURES | 0000 | 00 |
| 470 | M33EGO*3346A | DIESEL LUBE OIL SYSTEM | 3346A | DLS | MSC | | | 0000 | 00 |
| 471 | M33EGS*3346A | EMERGENCY DIESEL/GENERATOR JACKET & INTERCOOLER WATER | 3346A | DGN | MSC | DG | EMERG GEN ENCL A/B | 0000 | 00 |
| 472 | M33EGF*3346B | DIESEL FUEL OIL | 3346B | DFS | MSC | DG | | 0000 | 00 |
| 473 | M33RPS*3407A | WESTINGHOUSE 7300 RACKS | 3407A | RPS | MSC | CB | RACK ROOM | 0047 | 06 |
| 474 | M33CES*3407B | BALANCE OF PLANT; SPEC 200 CABINETS | 3407B | BOP | MSC | CB | RACK ROOM | 0047 | 06 |
| 475 | M33LTG*3720B1 | STATION LIGHTING EMERGENCY GROUP 1 | 3720B | LTG | MSC | | | 0000 | 00 |
| 476 | M33RCS*P1A | REACTOR COOLANT PUMP | 3301 | RCS | PMP | CS | | 0030 | |
| 477 | M33RCS*P1B | REACTOR COOLANT PUMP | 3301 | RCS | PMP | CS | | 0030 | |
| 478 | M33RCS*P1C | REACTOR COOLANT PUMP | 3301 | RCS | PMP | CS | | 0030 | |
| 479 | M33RCS*P1D | REACTOR COOLANT PUMP | 3301 | RCS | PMP | CS | | 0030 | |
| 480 | M33RCS*P1SP | REACTOR COOLANT PUMP - SPARE | 3301 | RCS | PMP | FB | RAILROAD ACCESS | 0024 | |
| 481 | M33RCS*P2SP | REACTOR COOLANT PUMP - SPARE, SN# 1162E93G03-6 | 3301 | RCS | PMP | FB | RAILROAD ACCESS | 0024 | |
| 482 | M33RCS*P3SP | REACTOR COOLANT PUMP - SPARE, SN# 1162E93G03-7 | 3301 | RCS | PMP | FB | RAILROAD ACCESS | 0024 | |
| 483 | M33RCS*P4SP | REACTOR COOLANT PUMP - SPARE, SN# 1162E93G01-8 | 3301 | RCS | PMP | FB | RAILROAD ACCESS | 0024 | |
| 484 | M33SFC*P1A | FUEL POOL COOLING PUMP A | 3305 | SFC | PMP | FB | | 0024 | |
| 485 | M33SFC*P1B | FUEL POOL COOLING PUMP B | 3305 | SFC | PMP | FB | | 0024 | |
| 486 | M33SIH*P1A | A SAFETY INJECTION PUMP | 3308 | HPI | PMP | ES | ESF "A" CUB. | 0021 | |
| 487 | M33SIH*P1B | B SAFETY INJECTION PUMP | 3308 | HPI | PMP | ES | NORTH CUB. | 0021 | |
| 488 | M33SIH*P1SP | SAFETY INJECTION PUMP & MOTOR - SPARE | 3308 | HPI | PMP | WH | NNECO WAREHOUSE #6 | 0024 | |
| 489 | M33FWA*P1A | MOTOR DRIVEN STEAM GENERATOR AUX FEED PUMP | 3322 | AFW | PMP | ES | MIDDLE SOUTH ESF | 0021 | |
| 490 | M33FWA*P1B | MOTOR DRIVEN STEAM GENERATOR AUX FEED PUMP | 3322 | AFW | PMP | ES | SOUTHERN CUB. | 0021 | |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 491 | M33FWA*P2 | TURBINE DRIVEN AUXILIARY FEEDWATER PUMP | 3322 | AFW | PMP | ES | | 0021 | |
| 492 | M33FWL*P4 | MAIN LUBE OIL PUMP (SHAFT DRIVEN FOR TERRY TURBINE) | 3322 | FWL | PMP | ES | | 0021 | |
| 493 | M33FWL*P5 | AUX LUBE OIL PUMP (TURBINE DRIVEN AUX FEEDWATER PUMP) | 3322 | FWL | PMP | ES | TERRY TURB PMP SKID | 0021 | |
| 494 | M33FWL*P6A | SHAFT DRIVEN LUBE OIL PUMP (A MOTOR DRIVEN AFW PUMP) | 3322 | FWL | PMP | ES | | 0021 | |
| 495 | M33FWL*P6B | SHAFT DRIVEN LUBE OIL PUMP (B MOTOR DRIVEN AFW PUMP) | 3322 | FWL | PMP | ES | | 0021 | |
| 496 | M33BOGUSID2 | TEST AGAIN | 3326 | BOP | PMP | | | | |
| 497 | M33SWP*P1A | SERVICE WATER PUMP | 3326 | SWS | PMP | CW | | 0014 | |
| 498 | M33SWP*P1B | SERVICE WATER PUMP | 3326 | SWS | PMP | CW | | 0014 | |
| 499 | M33SWP*P1C | SERVICE WATER PUMP | 3326 | SWS | PMP | CW | | 0014 | |
| 500 | M33SWP*P1D | SERVICE WATER PUMP | 3326 | SWS | PMP | CW | | 0014 | |
| 501 | M33SWP*P2A | CONTROL BUILDING AIR CIND BSTR PUMP MOTOR | 3326 | SWS | PMP | CB | | 0064 | |
| 502 | M33SWP*P2B | CONTROL BUILDING AIR COND BSTR PUMP MOTOR | 3326 | SWS | PMP | CB | CHILLER ROOM | 0064 | |
| 503 | M33SWP*P2SP | WAREHOUSE SPARE FOR CONTROL BLDG AIR CONDITIONING BOOSTER PUMPS | 3326 | SWS | PMP | WH | | 0000 | 00 |
| 504 | M33SWP*P3A | MCC AND ROD CONTROL AREA BOOSTER PUMP | 3326 | SWS | PMP | AB | | 0043 | |
| 505 | M33SWP*P3B | MCC AND ROD CONTROL AREA BOOSTER PUMP | 3326 | SWS | PMP | AB | NEAR BORON RECOV PNL | 0043 | |
| 506 | M33CHS*P3A | A CHARGING PUMP | 3304A | CVC | PMP | AB | "A" CHG PMP CUBICLE | 0024 | |
| 507 | M33CHS*P3B | B CHARGING PUMP | 3304A | CVC | PMP | AB | AREA 2 | 0024 | |
| 508 | M33CHS*P3C | C CHARGING PUMP | 3304A | CVC | PMP | AB | AREA 2 | 0024 | |
| 509 | M33CHS*P6A | CHARGING PUMP AUX LUBE OIL PUMP | 3304A | CVC | PMP | AB | CHARGING PUMP A | 0024 | |
| 510 | M33CHS*P6B | CHARGING PUMP AUX LUBE OIL PUMP | 3304A | CVC | PMP | AB | CHARGING PUMP B | 0024 | |
| 511 | M33CHS*P6C | CHARGING PUMP AUX LUBE OIL PUMP | 3304A | CVC | PMP | AB | CHARGING PUMP C | 0024 | |
| 512 | M33CHS*P6SP | CHARGING PUMP AUXILIARY LUBE OIL PUMP (SPARE) | 3304A | CVC | PMP | FB | SEAL REBUILD CAGE | 0014 | |
| 513 | M33CHS*P7A | A CHARGING PUMP SHAFT DRIVEN LUBE OIL PUMP | 3304A | CVC | PMP | AB | CHARGING PUMP A | 0024 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 514 | M33CHS*P7B | B CHARGING PUMP SHAFT DRIVEN LUBE OIL PUMP | 3304A | CVC | PMP | AB | CHARGING PUMP B | 0024 | |
| 515 | M33CHS*P7C | C CHARGING PUMP SHAFT DRIVEN LUBE OIL PUMP | 3304A | CVC | PMP | AB | CHARGING PUMP C | 0024 | |
| 516 | M33CHS*P2A | BORIC ACID TRANSFER PUMP | 3304C | CVC | PMP | AB | AREA 2 | 0043 | |
| 517 | M33CHS*P2B | BORIC ACID TRANSFER PUMP | 3304C | CVC | PMP | AB | AREA 2 | 0043 | |
| 518 | M33RHS*P1A | RESIDUAL HEAT REMOVAL PUMP | 3307B | RHR | PMP | ES | | 0004 | |
| 519 | M33RHS*P1B | RESIDUAL HEAT REMOVAL PUMP | 3307B | RHR | PMP | ES | RHR B CUBICLE | 0004 | |
| 520 | M33RHS*P1SP | RHR PUMP *** SPARE *** (MTR SN # 1S-75), (NAT'L BD. # 233) | 3307B | RHR | PMP | WH | WHSE-9 | 0014 | 06 |
| 521 | M33HVK*P1A | CONTROL BUILDING CHILLED WATER PUMP | 3314F | CBW | PMP | CB | | 0064 | |
| 522 | M33HVK*P1B | CONTROL BUILDING CHILLED WATER PUMP | 3314F | CBW | PMP | CB | COL. 54, LINE A4 | 0064 | |
| 523 | M33HVK*P3A | A CONTROL BUILDING CHILLER LUBE OIL PUMP | 3314F | CBW | PMP | CB | | 0064 | |
| 524 | M33HVK*P3B | B CONTROL BUILDING CHILLER LUBE OIL PUMP | 3314F | CBW | PMP | CB | | 0064 | |
| 525 | M33CCP*P1A | RPCCW PUMP A | 3330A | CCR | PMP | AB | NRTH END UNDR HTEXCH | 0024 | |
| 526 | M33CCP*P1B | RPCCW PUMP B | 3330A | CCR | PMP | AB | NRTH END UNDR HTEXCH | 0024 | 06 |
| 527 | M33CCP*P1C | RPCCW PUMP C | 3330A | CCR | PMP | AB | NRTH END UNDR HTEXCH | 0024 | |
| 528 | M33CCE*P1A | A CHARGING PUMP COOLING PUMP | 3330D | CCE | PMP | AB | AREA 2 | 0024 | |
| 529 | M33CCE*P1B | B CHARGING PUMP COOLING PUMP | 3330D | CCE | PMP | AB | AREA 2 | 0024 | |
| 530 | M33EGO*P1A | ROCKER ARM PRE-LUBE OIL PUMP | 3346A | DLS | PMP | DG | D/G 'A' | 0027 | |
| 531 | M33EGO*P1B | ROCKER ARM PRE-LUBE OIL PUMP | 3346A | DLS | PMP | DG | D/G 'B' | 0027 | |
| 532 | M33EGO*P2A | ROCKER ARM LUBE OIL PUMP | 3346A | DLS | PMP | DG | D/G 'A' | 0027 | |
| 533 | M33EGO*P2B | ROCKER ARM LUBE OIL PUMP | 3346A | DLS | PMP | DG | D/G 'B' | 0027 | |
| 534 | M33EGO*P3A | ENGINE DRIVEN LUBE OIL PUMP | 3346A | DLS | PMP | DG | D/G 'A' | 0027 | |
| 535 | M33EGO*P3B | ENGINE DRIVEN LUBE OIL PUMP | 3346A | DLS | PMP | DG | D/G 'B' | 0027 | |
| 536 | M33EGO*P4A | LUBE OIL AND FILTER PUMP | 3346A | DLS | PMP | DG | D/G 'A' | 0027 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 537 | M33EGO*P4B | LUBE OIL AND FILTER PUMP | 3346A | DLS | PMP | DG | D/G 'B' | 0027 | |
| 538 | M33EGS*P1A | ENGINE DRIVEN COOLING WATER PUMP | 3346A | DGN | PMP | DG | D/G 'A' | 0016 | |
| 539 | M33EGS*P1B | ENGINE DRIVEN COOLING WATER PUMP | 3346A | DGN | PMP | DG | D/G 'B' | 0016 | |
| 540 | M33EGS*P2A | JACKET WATER CIRC PUMP | 3346A | DGN | PMP | DG | D/G 'A' | 0024 | |
| 541 | M33EGS*P2B | JACKET WATER CIRC PUMP | 3346A | DGN | PMP | DG | D/G 'B' | 0024 | |
| 542 | M33EGS*P3A | ENGINE DRIVEN INTERCOOLER WATER PUMP | 3346A | DGN | PMP | DG | D/G 'A' | 0024 | 06 |
| 543 | M33EGS*P3B | ENGINE DRIVEN INTERCOOLER WATER PUMP | 3346A | DGN | PMP | DG | D/G 'B' | 0024 | |
| 544 | M33EGF*P1A | EMERGENCY GEN FUEL OIL XFER PUMP | 3346B | DFS | PMP | FV | FUEL VAULT 'A' | 0016 | |
| 545 | M33EGF*P1B | EMERGENCY GEN FUEL OIL XFER PUMP | 3346B | DFS | PMP | FV | FUEL VAULT 'B' | 0016 | |
| 546 | M33EGF*P1C | EMERGENCY GEN FUEL OIL XFER PUMP | 3346B | DFS | PMP | FV | FUEL VAULT 'A' | 0016 | |
| 547 | M33EGF*P1D | EMERGENCY GEN FUEL OIL XFER PUMP | 3346B | DFS | PMP | FV | FUEL VAULT 'B' | 0016 | |
| 548 | M33EGF*P2A | DIESEL GENERATOR DC MOTOR DRIVEN FUEL OIL PUMPS | 3346B | DFS | PMP | DG | | 0016 | |
| 549 | M33EGF*P2B | DIESEL GENERATOR DC MOTOR DRIVEN FUEL OIL PUMPS | 3346B | DFS | PMP | DG | | 0000 | 00 |
| 550 | M33EGF*P3A | DIESEL GENERATOR ENGINE DRIVEN FUEL PUMP | 3346B | DFS | PMP | DG | D/G 'A' | | |
| 551 | M33EGF*P3B | DIESEL GENERATOR ENGINE DRIVEN FUEL PUMP | 3346B | DFS | PMP | DG | D/G 'B' | | |
| 552 | M33RCS*PNL10 | REACTOR COOLANT SYSTEM PANEL - EAST SWGR. | 3301 | RCS | PNL | AB | | 0024 | |
| 553 | M33RCS*PNL10(1) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR43,73,74 GRP"A" | 3301 | RCS | PNL | AB | | 0024 | |
| 554 | M33RCS*PNL10(2) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR33,61,62 GRP"A" | 3301 | RCS | PNL | AB | | 0024 | |
| 555 | M33RCS*PNL10(3) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR23,49,50 GRP"A" | 3301 | RCS | PNL | AB | | 0024 | |
| 556 | M33RCS*PNL10(4) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR28,55,56 GRP"A" | 3301 | RCS | PNL | AB | | 0024 | |
| 557 | M33RCS*PNL10(5) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR38,67,68 GRP"A" | 3301 | RCS | PNL | AB | | 0024 | |
| 558 | M33RCS*PNL20 | REACTOR COOLANT SYSTEM PANEL - WEST SWGR. | 3301 | RCS | PNL | AB | | 0024 | |
| 559 | M33RCS*PNL20(1) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR44,75,76 GRP"B" | 3301 | RCS | PNL | AB | | 0024 | |
| 560 | M33RCS*PNL20(2) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR34,63,64 GRP"B" | 3301 | RCS | PNL | AB | | 0024 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 561 | M33RCS*PNL20(4) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR29,57,58 GRP"B" | 3301 | RCS | PNL | AB | | 0024 | |
| 562 | M33RCS*RAKSTVA | PROCESS PROTECTION RACK;"A" LOOP STOP VALVE CABINET | 3301 | RCS | PNL | CB | | 0047 | |
| 563 | M33RCS*RAKSTVB | PROCESS PROTECTION RACK;"B" LOOP STOP VALVE CABINET | 3301 | RCS | PNL | CB | | 0047 | |
| 564 | M33RPS*PNLAS | AUXILIARY SHUTDOWN PANEL | 3411 | ESA | PNL | CB | | 0004 | |
| 565 | M33CES*3414 | MAIN CONTROL BOARD - GENERAL | 3414 | MCB | PNL | | | 0000 | 00 |
| 566 | M33CES*MCB-MB1 | MAIN BOARD 1 | 3414 | MCB | PNL | CB | | 0047 | |
| 567 | M33CES*MCB-MB2 | MAIN CONTROL BOARD 2 | 3414 | MCB | PNL | CB | | 0047 | |
| 568 | M33CES*MCB-MB3 | MAIN CONTROL BOARD | 3414 | MCB | PNL | CB | | 0047 | |
| 569 | M33CES*MCB-MB4 | MAIN CONTROL BOARD | 3414 | MCB | PNL | CB | | 0047 | |
| 570 | M33CES*MCB-MB5 | MAIN BOARD 5 | 3414 | MCB | PNL | CB | | 0047 | |
| 571 | M33CES*MCB-MB6 | MAIN BOARD 6 | 3414 | MCB | PNL | CB | | 0047 | |
| 572 | M33CES*MCB-MB7 | MAIN BOARD 7 | 3414 | MCB | PNL | CB | CONTROL ROOM | 0047 | 06 |
| 573 | M33CES*MCB-MB8 | MAIN BOARD 8 | 3414 | MCB | PNL | CB | | 0047 | |
| 574 | M33CES*PNLBD1O | ISOLATION PANEL DIESEL BUILDING-ORANGE | 3415 | ELC | PNL | DG | | 0024 | |
| 575 | M33CES*PNLBD1P | ISOLATION PANEL DIESEL BUILDING-PURPLE | 3415 | ELC | PNL | DG | | 0024 | |
| 576 | M33CES*PNLBE1O | ISOLATION PANEL ENGINEERED SAFETY FEATURE BUILDING-ORANGE | 3415 | ELC | PNL | ES | | 0036 | |
| 577 | M33CES*PNLBE1P | ISOLATION PANEL ENGINEERED SAFETY FEATURE BUILDING-PURPLE | 3415 | ELC | PNL | ES | | 0036 | |
| 578 | M33CES*PNLBE2O | ISOLATION PANEL ENGINEERED SAFETY FEATURE BUILDING-ORANGE | 3415 | ELC | PNL | ES | | 0036 | |
| 579 | M33CES*PNLBE2P | ISOLATION PANEL ENGINEERED SAFETY FEATURE BUILDING-PURPLE | 3415 | ELC | PNL | ES | | 0036 | 06 |
| 580 | M33CES*PNLBG1O | ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-ORANGE | 3415 | ELC | PNL | CB | | 0004 | |
| 581 | M33CES*PNLBG1P | ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-PURPLE | 3415 | ELC | PNL | CB | EMERG. SWITCHGEAR | 0004 | |
| 582 | M33CES*PNLBG2O | ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-ORANGE | 3415 | ELC | PNL | CB | | 0004 | |
| 583 | M33CES*PNLBG2P | ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-PURPLE | 3415 | ELC | PNL | CB | | 0004 | |
| 584 | M33CES*PNLBG3O | ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-ORANGE | 3415 | ELC | PNL | CB | | 0004 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 585 | M33CES*PNLBG3P | ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-PURPLE | 3415 | ELC | PNL | CB | | 0004 | |
| 586 | M33CES*PNLBG4O | ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-ORANGE | 3415 | ELC | PNL | CB | | 0004 | |
| 587 | M33CES*PNLBG4P | ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-PURPLE | 3415 | ELC | PNL | CB | | 0004 | |
| 588 | M33CES*PNLBP1O | ISOLATION PANEL CIRCULATING WATER PH-ORANGE | 3415 | ELC | PNL | CW | SERVICE CUB.A & C | 0024 | |
| 589 | M33CES*PNLBP1P | ISOLATION PANEL CIRCULATING WATER PH-PURPLE | 3415 | ELC | PNL | CW | | 0014 | |
| 590 | M33CES*PNLBR1O | ISOLATION PANEL ROD CONTROL MCC A -ORANGE | 3415 | ELC | PNL | AB | | 0024 | |
| 591 | M33CES*PNLBR1P | ISOLATION PANEL ROD CONTROL MCC A -PURPLE | 3415 | ELC | PNL | AB | | 0024 | |
| 592 | M33CES*PNLBR2O | ISOLATION PANEL ROD CONTROL MCC A -ORANGE | 3415 | ELC | PNL | AB | EAST MCC ROD CONTROL | 0024 | |
| 593 | M33CES*PNLBR2P | ISOLATION PANEL ROD CONTROL MCC A -PURPLE | 3415 | ELC | PNL | AB | | 0024 | |
| 594 | M33CES*PNLBR3O | ISOLATION PANEL ROD CONTROL MCC A -ORANGE | 3415 | ELC | PNL | AB | | 0024 | |
| 595 | M33CES*PNLBR3P | ISOLATION PANEL ROD CONTROL MCC A -PURPLE | 3415 | ELC | PNL | AB | | 0024 | |
| 596 | M33CES*PNLBR4O | ISOLATION PANEL ROD CONTROL MCC A -ORANGE | 3415 | ELC | PNL | AB | | 0024 | |
| 597 | M33CES*PNLBR4P | ISOLATION PANEL ROD CONTROL MCC A -PURPLE | 3415 | ELC | PNL | AB | | 0024 | |
| 598 | M33CES*PNLBR5O | ISOLATION PANEL ROD CONTROL MCC A -ORANGE | 3415 | ELC | PNL | AB | | 0024 | |
| 599 | M33CES*PNLBR5P | ISOLATION PANEL ROD CONTROL MCC A -PURPLE | 3415 | ELC | PNL | AB | | 0024 | |
| 600 | M33CES*PNLBS1O | ISOLATION PANEL SPREADING ROOM-ORANGE | 3415 | ELC | PNL | CB | | 0024 | |
| 601 | M33CES*PNLBS1P | ISOLATION PANEL SPREADING ROOM-PURPLE | 3415 | ELC | PNL | CB | | 0024 | |
| 602 | M33CES*PNLBS2O | ISOLATION PANEL SPREADING ROOM-ORANGE | 3415 | ELC | PNL | CB | | 0024 | |
| 603 | M33CES*PNLBS2P | ISOLATION PANEL SPREADING ROOM-PURPLE | 3415 | ELC | PNL | CB | | 0024 | |
| 604 | M33CES*PNLBS3O | ISOLATION PANEL SPREADING ROOM-ORANGE | 3415 | ELC | PNL | CB | | 0024 | |
| 605 | M33CES*PNLBS3P | ISOLATION PANEL SPREADING ROOM-PURPLE | 3415 | ELC | PNL | CB | | 0024 | |
| 606 | M33CES*PNLFTSP | FIRE TRANSFER PANEL | 3415 | ELC | PNL | CB | EAST SWITCHGEAR RM | 0004 | 06 |
| 607 | M33CES*PNLTSA | TRANSFER SWITCH PANEL, TRAIN A | 3415 | ELC | PNL | CB | | 0004 | |
| 608 | M33CES*PNLTSB | "B" TRAIN TRANSFER SWITCH PANEL | 3415 | ELC | PNL | CB | | 0004 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 609 | M33CES*RAKAUXA | AUX RACK | 3415 | ELC | PNL | CB | | 0000 | 00 |
| 610 | M33CES*RAKAUXB | AUX RACK | 3415 | ELC | PNL | CB | | 0000 | 00 |
| 611 | M33HVR*PNL-FLT-1A | "A" AUXILIARY BUILDING FILTER HEATER | 3314A | RBV | PNL | AB | EAST MRC | 0024 | |
| 612 | M33HVR*PNL-FLT-1B | ELECTRICAL PANEL FOR 3HVR*FLT1B | 3314A | RBV | PNL | AB | WEST MRC | 0024 | |
| 613 | M33HVR*PNL-FLT-2A | ELECTRICAL PANEL FOR 3HVR*FLT2A | 3314C | RBV | PNL | AB | EAST MRC | 0024 | |
| 614 | M33HVR*PNL-FLT-2B | ELECTRICAL PANEL FOR 3HVR*FLT2B | 3314C | RBV | PNL | AB | WEST MRC | 0024 | |
| 615 | M33HVC*PNL-FLT-1A | EMER. FLT TEMPERATURE CONTROL | 3314F | ACC | PNL | CB | | 0064 | |
| 616 | M33HVC*PNL-FLT-1B | CONTROL ROOM FILTER DISCONN SWITCH | 3314F | ACC | PNL | CB | | 0064 | |
| 617 | M33HVK*PNLCHL1A | WALL MOUNTED CHILLER CONTROL PANEL | 3314F | CBW | PNL | CB | | 0064 | |
| 618 | M33HVK*PNLCHL1B | WALL MOUNTED CHILLER CONTROL PANEL | 3314F | CBW | PNL | CB | | 0064 | |
| 619 | M33MSS*PNL1O | CURRENT LIMITER PANEL | 3316A | STG | PNL | CB | CABLE SPREADING RM. | 0024 | |
| 620 | M33MSS*PNL1P | CURRENT LIMITER PANEL | 3316A | STG | PNL | CB | CABLE SPREADING RM. | 0024 | |
| 621 | M33RCP*PNL5 | SERVICE PANEL | 3344A | EVI | PNL | AB | | 0024 | |
| 622 | M33RCS*PNL1 | SERVICE PANEL - EAST SWGR | 3344A | RCS | PNL | AB | | 0024 | 06 |
| 623 | M33RCS*PNL1(1) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR43,73,74 GRP "A" | 3344A | RCS | PNL | | | 0000 | 00 |
| 624 | M33RCS*PNL1(2) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR28,55,56 GRP "A" | 3344A | RCS | PNL | | | 0000 | 00 |
| 625 | M33RCS*PNL1(3) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR33,61,62 GRP "A" | 3344A | RCS | PNL | | | 0000 | 00 |
| 626 | M33RCS*PNL1(4) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR38,67,68 GRP "A" | 3344A | RCS | PNL | AB | | 0000 | 00 |
| 627 | M33RCS*PNL1(5) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR23,49,50 GRP "A" | 3344A | RCS | PNL | AB | | 0000 | 00 |
| 628 | M33RCS*PNL2 | SERVICE PANEL - AUX BLDG 24 WEST SWGR. | 3344A | RCS | PNL | AB | | 0000 | 00 |
| 629 | M33RCS*PNL2(1) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR44,75,76 GRP "B" | 3344A | RCS | PNL | AB | | 0000 | 00 |
| 630 | M33RCS*PNL2(2) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR29,57,58 GRP "B" | 3344A | RCS | PNL | AB | | 0000 | 00 |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 631 | M33RCS*PNL2(3) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR34,63,64 GRP "B" | 3344A | RCS | PNL | AB | | 0000 | 00 |
| 632 | M33RCS*PNL2(4) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR39,69,70 GRP "B" | 3344A | RCS | PNL | AB | | 0000 | 00 |
| 633 | M33RCS*PNL2(5) | CTMT PEN OVERCURRENT PRIMARY PROTECTION 3RCS-HTR24,51,52 GRP "B" | 3344A | RCS | PNL | AB | | 0000 | 00 |
| 634 | M33RCS*PNL20(3) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR24,51,52 GRP"B" | 3344A | RCS | PNL | AB | | 0024 | |
| 635 | M33RCS*PNL20(5) | CTMT PEN SECONDARY PROTECTION FOR 3RCS-HTR39,69,70 GRP"B" | 3344A | RCS | PNL | AB | | 0000 | 00 |
| 636 | M33RCP-PNL3B1(F1F) | SPARE BREAKER | 3344B | ES0 | PNL | AB | | 0000 | 00 |
| 637 | M33SCV*BKR25O-12A | 15A FEED TO 3EGA-DRY1A | 3345A | EVI | PNL | DG | | 0024 | |
| 638 | M33SCV*BKR25P | SECONDARY PROTECTION PANEL FROM 3SCV*PNL25P | 3345A | EVI | PNL | DG | | | |
| 639 | M33SCV*JB10O | SECONDARY PROTECTION PANEL | 3345A | EVI | PNL | ES | | | |
| 640 | M33SCV*JB11P | SECONDARY PROTECTION PANEL 3SCV*JB11P | 3345A | EVI | PNL | CB | | | |
| 641 | M33SCV*JB1O | SECONDARY PROTECTION PANEL (DUP ID, USE M33SCV*JBPNL1O) | 3345A | EVI | PNL | | | | |
| 642 | M33SCV*JB1P | SECONDARY PROTECTION PANEL | 3345A | EVI | PNL | | | | |
| 643 | M33SCV*JBR1O | SECONDARY PROTECTION PANEL | 3345A | EVI | PNL | CB | | | |
| 644 | M33SCV*JBR1P | SECONDARY PROTECTION PANEL | 3345A | EVI | PNL | CB | | 0000 | 00 |
| 645 | M33SCV*PNL10O | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | ES | | 0036 | |
| 646 | M33SCV*PNL10O(06) | 120 VOLT VITAL PANEL PRIMARY BREAKER FOR 3SSP-SKD2 | 3345A | EVI | PNL | ES | | 0036 | 06 |
| 647 | M33SCV*PNL10P | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | ES | | 0036 | |
| 648 | M33SCV*PNL11P | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | ES | | 0036 | |
| 649 | M33SCV*PNL1O | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | CB | | 0047 | |
| 650 | M33SCV*PNL1O(08) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD49C1 & 3HVR*MOD50C1 | 3345A | EVI | PNL | AB | | 0024 | |
| 651 | M33SCV*PNL1O(1) | 240/120V BREAKER FOR 3RCS-HTR23,49,50 PRESS HTR | 3345A | EVI | PNL | AB | | 0024 | |
| 652 | M33SCV*PNL1O(29) | PRIMARY PENETRATION BREAKER FOR 3SIL*MV8808A | 3345A | EVI | PNL | CB | | 0047 | |
| 653 | M33SCV*PNL1O(30) | PRIMARY PROTECTION PENETRATION FOR 3SIL*MV8808C | 3345A | EVI | PNL | CB | | 0047 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 654 | M33SCV*PNL1P | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | CB | | 0047 | |
| 655 | M33SCV*PNL1P(12) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD49B & 3HVR*MOD50A | 3345A | EVI | PNL | AB | | 0024 | |
| 656 | M33SCV*PNL1P(13) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD49C2 & 3HVR*MOD50C2 | 3345A | EVI | PNL | AB | | 0024 | |
| 657 | M33SCV*PNL1P(28) | PRIMARY PROTECTION PENETRATION FOR 3SIL*MV8808D | 3345A | EVI | PNL | CB | | 0047 | |
| 658 | M33SCV*PNL1P(29) | PRIMARY PROTECTION PENETRATION FOR 3SIL*MV8808B | 3345A | EVI | PNL | CB | | 0047 | |
| 659 | M33SCV*PNL24O | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | CW | | 0014 | |
| 660 | M33SCV*PNL24P | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | CW | | 0014 | |
| 661 | M33SCV*PNL25O | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | DG | | 0024 | |
| 662 | M33SCV*PNL25O(12) | 15A FEED TO 3EGA-DRY1A | 3345A | EVI | PNL | DG | | 0024 | |
| 663 | M33SCV*PNL25O(14) | 15A FEED TO 3EGA-DRY2A | 3345A | EVI | PNL | DG | | 0024 | |
| 664 | M33SCV*PNL25P | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | DG | | 0024 | |
| 665 | M33SCV*PNL25P(12) | 15A FEED TO 3EGA-DRY1B | 3345A | EVI | PNL | DG | | 0024 | |
| 666 | M33SCV*PNL25P(14) | 15A FEED TO 3EGA-DRY2B | 3345A | EVI | PNL | DG | | 0024 | |
| 667 | M33SCV*PNL5O | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | AB | MCC/RC | 0024 | |
| 668 | M33SCV*PNL5O(10) | 120 VOLT VITAL PANEL3SCV*PNL5O(10) FOR 3HVU-FN1A | 3345A | EVI | PNL | AB | | 0024 | |
| 669 | M33SCV*PNL5O(11) | BREAKER FOR HEATER EJS*US-2A (SECTION 3) | 3345A | EVI | PNL | | | 0000 | 00 |
| 670 | M33SCV*PNL5O(15) | CNTMT PENETRATION PRIMARY PROTECTION BREAKER FOR 3HVU-FN2A | 3345A | EVI | PNL | AB | | 0024 | |
| 671 | M33SCV*PNL5O(6) | 120 VOLT VITAL PANEL PRIMARY BREAKR FOR 3HVR-FT10 | 3345A | EVI | PNL | AB | MCC/RC | 0024 | |
| 672 | M33SCV*PNL5P | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | AB | MCC/RC | 0024 | |
| 673 | M33SCV*PNL5P(11) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD28B | 3345A | EVI | PNL | AB | | 0024 | |
| 674 | M33SCV*PNL9O | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | AB | MCC/RC | 0024 | |
| 675 | M33SCV*PNL9O(12) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD28A | 3345A | EVI | PNL | AB | | 0024 | |
| 676 | M33SCV*PNL9O(13) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD140A | 3345A | EVI | PNL | AB | | 0024 | |
| 677 | M33SCV*PNL9O(15) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD45C1 | 3345A | EVI | PNL | AB | | 0024 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 678 | M33SCV*PNL9O(18) | CNTMT PENETRATION SECONDARY PROTECTION BREAKER FOR 3RMS*RM41 | 3345A | EVI | PNL | AB | | 0024 | |
| 679 | M33SCV*PNL9O(24) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD46A | 3345A | EVI | PNL | AB | | 0024 | |
| 680 | M33SCV*PNL9P | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | AB | MCC/RC | 0024 | |
| 681 | M33SCV*PNL9P(10) | 120 VOLT VITAL BREAKER FOR 3HVU-FN1B | 3345A | EVI | PNL | AB | | 0024 | |
| 682 | M33SCV*PNL9P(11) | CNTMT PENETRATION PRIMARY PROTECTION BREAKER FOR 3HVU-FN2B | 3345A | EVI | PNL | AB | | 0024 | |
| 683 | M33SCV*PNL9P(13) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD45B2 | 3345A | EVI | PNL | AB | | 0024 | |
| 684 | M33SCV*PNL9P(17) | CNTMT PENETRATION SECONDARY PROTECTION BREAKER FOR 3RMS*RM42 | 3345A | EVI | PNL | AB | | 0024 | |
| 685 | M33SCV*PNL9P(23) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD140B | 3345A | EVI | PNL | AB | | 0024 | |
| 686 | M33SCV*PNL9P(24) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD46B | 3345A | EVI | PNL | AB | | 0024 | |
| 687 | M33SCV*PNLH2A | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | CB | | 0004 | |
| 688 | M33SCV*PNLH2B | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | CB | | 0004 | |
| 689 | M33SCV*PNLR1O | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | CB | | 0004 | 06 |
| 690 | M33SCV*PNLR1O(08) | 120 VOLT VITAL BREAKER FOR 3HVR*MOD49A & 3HVR*MOD50A | 3345A | EVI | PNL | AB | | 0024 | |
| 691 | M33SCV*PNLR1P | 120 VOLT VITAL PANEL | 3345A | EVI | PNL | CB | | 0004 | |
| 692 | M33HVR*PNL4A | VITAL FUSE PANEL | 3345B | EVI | PNL | AB | | | |
| 693 | M33HVR*PNL4B | VITAL FUSE PANEL | 3345B | EVI | PNL | AB | | | |
| 694 | M33VBA*PNL-VB1 | VITAL BUS PANELS 120VAC | 3345B | ELC | PNL | CB | | 0004 | 06 |
| 695 | M33VBA*PNL-VB2 | VITAL BUS PANELS 120VAC | 3345B | ELC | PNL | CB | | 0004 | 06 |
| 696 | M33VBA*PNL-VB3 | VITAL BUS PANELS 120VAC | 3345B | ELC | PNL | CB | | 0004 | 06 |
| 697 | M33VBA*PNL-VB4 | VITAL BUS PANELS 120VAC | 3345B | ELC | PNL | CB | | 0004 | 06 |
| 698 | M33BYS*PNL1 | BATTERY BUS 1 (301A-1) | 3345C | EDC | PNL | CB | | 0004 | |
| 699 | M33BYS*PNL1(03) | 250A FEEDER BREAKER FROM SWING CHARGER 3BYS*CHGR7 TO 3BYS*PNL1 | 3345C | EDC | PNL | CB | | 0004 | |
| 700 | M33BYS*PNL1(04) | 250A FEEDER BREAKER FROM 3BYS*CHGR1 TO 3BYS*PNL1 | 3345C | EDC | PNL | CB | | 0004 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 701 | M33BYS*PNL1(05) | 200A FEEDER BREAKER TO 3VBA*INV1 | 3345C | EDC | PNL | CB | | 0004 | |
| 702 | M33BYS*PNL1(06) | 90A FEEDER BREAKER FROM 3BYS*PNL1 TO 3BYS*PNLDG1F | 3345C | EDC | PNL | CB | | 0004 | |
| 703 | M33BYS*PNL13F | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 704 | M33BYS*PNL14F | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 705 | M33BYS*PNL15F | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 706 | M33BYS*PNL16F | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 707 | M33BYS*PNL17F | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 708 | M33BYS*PNL18F | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 709 | M33BYS*PNL1F | 125 VDC BATTERY 301B-2 DISTRIBUTION PANEL | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 710 | M33BYS*PNL1V | 125 VDC BATTERY 301A-1 DISTRIBUTION PANEL | 3345C | EDC | PNL | CB | | 0004 | |
| 711 | M33BYS*PNL1V(01) | 50A FEED TO 34C SWITCHGEAR | 3345C | EDC | PNL | CB | | 0004 | |
| 712 | M33BYS*PNL1V(02) | 50A FEED TO 32T SWITCHGEAR | 3345C | EDC | PNL | CB | | 0004 | |
| 713 | M33BYS*PNL1V(10) | 60A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL1F | 3345C | EDC | PNL | CB | | 0004 | |
| 714 | M33BYS*PNL1V(11) | 60A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL2F | 3345C | EDC | PNL | CB | | 0004 | |
| 715 | M33BYS*PNL1V(12) | 60A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL13F | 3345C | EDC | PNL | CB | | 0004 | |
| 716 | M33BYS*PNL1V(13) | 60A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL15F | 3345C | EDC | PNL | CB | | 0004 | |
| 717 | M33BYS*PNL1V(14) | 60A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL17F | 3345C | EDC | PNL | CB | | 0004 | |
| 718 | M33BYS*PNL1V(15) | SPARE | 3345C | EDC | PNL | | | | |
| 719 | M33BYS*PNL1V(16) | 20A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL20F | 3345C | EDC | PNL | CB | | 0004 | |
| 720 | M33BYS*PNL1V(17) | 50A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL22F | 3345C | EDC | PNL | CB | | 0004 | |
| 721 | M33BYS*PNL2 | BATTERY BUS 2 (301B-1) | 3345C | EDC | PNL | CB | | 0004 | |
| 722 | M33BYS*PNL2(03) | 250A FEEDER BREAKER FROM SWING CHARGER 3BYS*CHGR8 TO 3BYS*PNL2 | 3345C | EDC | PNL | CB | | 0004 | |
| 723 | M33BYS*PNL2(04) | 250A FEEDER BREAKER FROM 3BYS*CHGR2 TO 3BYS*PNL2 | 3345C | EDC | PNL | CB | | 0004 | |
| 724 | M33BYS*PNL2(05) | 200A FEEDER BREAKER TO 3VBA*INV2 | 3345C | EDC | PNL | CB | | 0004 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 725 | M33BYS*PNL2(06) | 90A FEEDER BREAKER FROM 3BYS*PNL2 TO 3BYS*PNLDG2F | 3345C | EDC | PNL | CB | | 0004 | |
| 726 | M33BYS*PNL20F | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | PNL | CB | | 0004 | 06 |
| 727 | M33BYS*PNL21F | 125 VDC BATTERY DISTRIBUTION PNL 21F | 3345C | EDC | PNL | CB | | 0004 | 06 |
| 728 | M33BYS*PNL22F | 125 VOLT DC ELECTRICAL PANEL | 3345C | EDC | PNL | AB | | 0024 | 06 |
| 729 | M33BYS*PNL23F | 125 VOLT DC PANEL | 3345C | EDC | PNL | AB | | 0024 | 06 |
| 730 | M33BYS*PNL2F | 125 VDC BATTERY DISTRIBUTION PANEL | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 731 | M33BYS*PNL2V | "B" TRAIN DC DISTRIBUTION PANEL TO ALL OTHER PANELS/ CONT POWER | 3345C | EDC | PNL | CB | | 0004 | |
| 732 | M33BYS*PNL2V(01) | 50A FEED TO 34D SWITCHGEAR | 3345C | EDC | PNL | CB | | 0004 | |
| 733 | M33BYS*PNL2V(02) | 50A FEED TO 32U SWITCHGEAR | 3345C | EDC | PNL | CB | | 0004 | |
| 734 | M33BYS*PNL2V(10) | 60A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL3F | 3345C | EDC | PNL | CB | | 0004 | |
| 735 | M33BYS*PNL2V(11) | 60A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL4F | 3345C | EDC | PNL | CB | | 0004 | |
| 736 | M33BYS*PNL2V(13) | 60A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL16F | 3345C | EDC | PNL | CB | | 0004 | |
| 737 | M33BYS*PNL2V(14) | 60A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL18F | 3345C | EDC | PNL | CB | | 0004 | |
| 738 | M33BYS*PNL2V(15) | SPARE | 3345C | EDC | PNL | | | | |
| 739 | M33BYS*PNL2V(16) | 20A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL21F | 3345C | EDC | PNL | CB | | 0004 | |
| 740 | M33BYS*PNL2V(17) | 50A FEED TO 125VDC DISTR FUSE PANEL 3BYS*PNL23F | 3345C | EDC | PNL | CB | | 0004 | |
| 741 | M33BYS*PNL3 | BATTERY BUS 3 (301A-2) | 3345C | EDC | PNL | CB | | 0004 | 06 |
| 742 | M33BYS*PNL3(02) | 250A FEEDER BREAKER FROM SWING CHARGER 3BYS*CHGR7 TO 3BYS*PNL3 | 3345C | EDC | PNL | CB | | 0004 | |
| 743 | M33BYS*PNL3(03) | 200A FEEDER BREAKER TO 3VBA*INV3 | 3345C | EDC | PNL | CB | | 0004 | |
| 744 | M33BYS*PNL3(04) | 100A FEEDER BREAKER FROM 3BYS*CHGR3 TO 3BYS*PNL3 | 3345C | EDC | PNL | CB | | 0004 | |
| 745 | M33BYS*PNL3(07) | 20A FEEDER BREAKER INTERNALLY USED TO 3BYS*PNL3 | 3345C | EDC | PNL | CB | | 0004 | |
| 746 | M33BYS*PNL3F | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 747 | M33BYS*PNL4 | BATTERY BUS 4 (301B-2) | 3345C | EDC | PNL | CB | | 0004 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 748 | M33BYS*PNL4(02) | 250A FEEDER BREAKER FROM SWING CHARGER 3BYS*CHGR8 TO 3BYS*PNL4 | 3345C | EDC | PNL | CB | | 0004 | |
| 749 | M33BYS*PNL4(03) | 200A FEEDER BREAKER TO 3VBA*INV4 | 3345C | EDC | PNL | CB | | 0004 | |
| 750 | M33BYS*PNL4(04) | 100A FEEDER BREAKER FROM 3BYS*CHGR4 TO 3BYS*PNL4 | 3345C | EDC | PNL | CB | | 0004 | |
| 751 | M33BYS*PNL4(07) | 20A FEEDER BREAKER INTERNALLY USED TO 3BYS*PNL4 | 3345C | EDC | PNL | CB | | 0004 | |
| 752 | M33BYS*PNL4F | 125 VOLT DC ELECTRICAL SYSTEM | 3345C | EDC | PNL | CB | | 0046 | 06 |
| 753 | M33BYS*PNLDG1F | 125V DC PANEL | 3345C | EDC | PNL | DG | | 0024 | 06 |
| 754 | M33BYS*PNLDG2F | 125V DC PANEL | 3345C | EDC | PNL | DG | | 0024 | 06 |
| 755 | M33EGS*PNL1A | EMERGENCY GENERATOR DISTRIBUTION PANEL-SKID MOUNTED | 3346A | DGN | PNL | DG | D/G 'A' | 0024 | |
| 756 | M33EGS*PNL1B | EMERGENCY GENERATOR DIST PANEL | 3346A | DGN | PNL | DG | D/G 'B' | 0024 | |
| 757 | M33EGS*PNLA | EMERG GEN CONTROL PANEL | 3346A | DGN | PNL | DG | | 0024 | |
| 758 | M33EGS*PNLB | B EMERGENCY GENERATOR CONTROL PANEL | 3346A | DGN | PNL | DG | | 0024 | |
| 759 | M33EGS*PNLCNTA | EMERG GEN "A" 480V AUXILIARIES CONTROL PANEL | 3346A | DGN | PNL | DG | D/G 'A' | 0024 | 06 |
| 760 | M33EGS*PNLCNTB | EMERG GEN "B" 480V AUXILIARIES CONTROL PANEL | 3346A | DGN | PNL | DG | D/G 'B' | 0024 | 06 |
| 761 | M33EGS*PNLRLYA | RELAY PANEL FOR EMERGENCY DIESEL GENERATOR "A" | 3346A | DGN | PNL | DG | D/G 'A' | 0024 | |
| 762 | M33EGS*PNLRLYB | RELAY PANEL FOR EMERGENCY DIESEL GENERATOR "B" | 3346A | DGN | PNL | DG | D/G 'B' | 0024 | |
| 763 | M33RPS*RAKSET1 | REACTOR PROTECTION SYSTEM RACK SET 1 | 3407A | RPS | PNL | CB | | 0047 | |
| 764 | M33RPS*RAKSET2 | REACTOR PROTECTION SYSTEM RACK SET 2 | 3407A | RPS | PNL | CB | | 0047 | |
| 765 | M33RPS*RAKSET3 | REACTOR PROTECTION SYSTEM INSTRUMENTATION RACK | 3407A | RPS | PNL | CB | | 0047 | |
| 766 | M33RPS*RAKSET4 | REACTOR PROTECTION SYSTEM RACK SET 4 | 3407A | RPS | PNL | CB | | 0047 | |
| 767 | M33RPS*RAKSET5 | REACTOR PROTECTION RACK SET 5 | 3407A | RPS | PNL | CB | | 0047 | |
| 768 | M33RPS*RAKSET6 | 7300 CABINET 11 | 3407A | RPS | PNL | CB | | 0047 | |
| 769 | M33CES*IPNLCB1O | ANALOG ISOLATION CABINET | 3407B | BOP | PNL | CB | CABLE SPREADING ROOM | 0024 | 06 |
| 770 | M33CES*IPNLCB1P | ANALOG ISOLATION CABINET | 3407B | BOP | PNL | CB | CABLE SPREADING ROOM | 0024 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 771 | M33CES*IPNLI01 | INSTRUMENT PANEL - ORANGE | 3407B | BOP | PNL | CB | RACK ROOM | 0047 | |
| 772 | M33CES*IPNLI08 | INSTRUMENT PANEL - PURPLE | 3407B | BOP | PNL | CB | RACK ROOM | 0047 | |
| 773 | M33CES*IPNLI09 | B.O.P. INSTRUMENT PANEL | 3407B | BOP | PNL | CB | RACK ROOM | 0047 | |
| 774 | M33CES*IPNLI19 | INSTRUMENT PANEL-PURPLE | 3407B | BOP | PNL | CB | RACK ROOM | 0047 | |
| 775 | M33CES*IPNLI20 | INSTRUMENT PANEL-ORANGE | 3407B | BOP | PNL | CB | | 0043 | 06 |
| 776 | M33CES*IPNLI21 | INSTRUMENT PANEL - PURPLE | 3407B | BOP | PNL | CB | | 0043 | 06 |
| 777 | M33CES*IPNLI22 | INSTRUMENT PANEL-ORANGE | 3407B | BOP | PNL | CB | | | |
| 778 | M33RCS*HCV442A | REACTOR VESSEL VENT VALVE | 3301 | RCS | SOV | CS | DECK ABOVE PRT | -009 | 06 |
| 779 | M33RCS*HCV442B | B REACTOR HEAD VENT | 3301 | RCS | SOV | CS | DECK ABOVE PRT | -024 | 06 |
| 780 | M33RCS*SOV459 | LETDOWN ISOLATION | 3301 | RCS | SOV | CS | | 0003 | 08 |
| 781 | M33RCS*SOV460 | LETDOWN ISOLATION | 3301 | RCS | SOV | CS | | 0003 | 08 |
| 782 | M33RCS*SV8032 | REACTOR VESSEL LEAKOFF TO REACTOR COOLANT DRAINS | 3301 | RCS | SOV | CS | | 0008 | |
| 783 | M33RCS*SV8095A | A REACTOR VESSEL HEAD VENT ISOLATION UPSTREAM | 3301 | RCS | SOV | CS | PRESSURIZER | 0056 | |
| 784 | M33RCS*SV8095B | B REACTOR VESSEL HEAD VENT ISOLATION UPSTREAM | 3301 | RCS | SOV | CS | PRESSURIZER | 0053 | |
| 785 | M33RCS*SV8096A | A REACTOR VESSEL HEAD VENT ISOLATION DOWNSTREAM | 3301 | RCS | SOV | CS | PRESSURIZER | 0056 | |
| 786 | M33RCS*SV8096B | B REACTOR HEAD VENT ISOLATION DOWNSTREAM | 3301 | RCS | SOV | CS | PRESSURIZER | 0053 | |
| 787 | M33RCS*SV8145 | REACTOR COOLANT SYSTEM SPRAY | 3301 | RCS | SOV | CS | | | |
| 788 | M33RCS*SV8153 | EXCESS LETDOWN HEAT EXCHANGE INLET ISOLATION | 3301 | RCS | SOV | CS | EXCESS LETDOWN HX | 0006 | |
| 789 | M33RCS-SV8037A | LOOP 1 TO CHS LETDOWN DRAIN HEADER | 3301 | RCS | SOV | CS | | | |
| 790 | M33RCS-SV8037B | LOOP 2 TO CHS LETDOWN HEADER DRAIN | 3301 | RCS | SOV | CS | | 0005 | |
| 791 | M33RCS-SV8037C | LOOP 3 TO CHS LETDOWN DRAIN HEADER | 3301 | RCS | SOV | CS | | | |
| 792 | M33RCS-SV8037D | LOOP 4 TO CHS LETDOWN DRAIN HEADER | 3301 | RCS | SOV | CS | | 0005 | |
| 793 | M33SIL*SV8825 | SAFETY INJECTIONS PUMP HOT LEG TEST LINE | 3301 | LPI | SOV | CS | | 0018 | |
| 794 | M33SIL*SV8890A | RESIDUAL HEAT REMOVAL TO COLD LEG TEST LINE | 3301 | LPI | SOV | CS | | 0013 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 795 | M33SIL*SV8890B | RESIDUAL HEAT REMOVAL TO COLD LEG TEST LINE | 3301 | LPI | SOV | CS | | 0007 | |
| 796 | M33SIL-SV8872A | LOW PRESSURE SAFETY INJECT TO HIGH PRESSURE SAFETY INJECT | 3301 | LPI | SOV | CS | | | |
| 797 | M33SIL-SV8872B | LOW PRESSURE SYSTEM INJECT TO HIGH PRESSURE SYSTEM INJECT | 3301 | LPI | SOV | CS | | | |
| 798 | M33SIL-SV8872C | LOW PRESSURE TO SAFETY INJECT TO HIGH PRESSURE SAFETY INJECT | 3301 | LPI | SOV | CS | | | |
| 799 | M33SIL-SV8872D | LOW PRESSURE SAFETY INJECTION TO HIGH PRESSURE SAFETY INJECT | 3301 | LPI | SOV | CS | | | |
| 800 | M33SIL-SV8877A | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | SOV | CS | | -010 | |
| 801 | M33SIL-SV8877B | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | SOV | CS | | -010 | |
| 802 | M33SIL-SV8877C | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | SOV | CS | | -011 | |
| 803 | M33SIL-SV8877D | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | SOV | CS | | -010 | |
| 804 | M33SIL-SV8879A | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | SOV | CS | | -010 | |
| 805 | M33SIL-SV8879B | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | SOV | CS | | -018 | |
| 806 | M33SIL-SV8879C | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | SOV | CS | | -011 | |
| 807 | M33SIL-SV8879D | REACTOR COOLANT CHECK VALVE LEAK TEST | 3301 | LPI | SOV | CS | | -010 | |
| 808 | M33SIL-SV8889B | RHR PUMP HOT LEG TEST LINE | 3301 | LPI | SOV | CS | | -016 | |
| 809 | M33SIL-SV8889D | RHR PUMP HOT LEG TEST LINE | 3301 | LPI | SOV | CS | | 0013 | |
| 810 | M33SIH*SV8823 | TEST LINE ISOL SI TO COLD LEG INJ SOV | 3308 | HPI | SOV | CS | | 0018 | |
| 811 | M33SIH*SV8824 | TEST LINE ISOL SI TO 1/3 HOT LEG SOV | 3308 | HPI | SOV | CS | | | |
| 812 | M33SIH*SV8843 | TEST LINE ISOL CHARGING PUMP HEADER CK SOV | 3308 | HPI | SOV | CS | | 0008 | |
| 813 | M33SIH*SV8871 | SI TEST HEADER CTMT INNER ISOL SOV | 3308 | HPI | SOV | CS | | 0019 | |
| 814 | M33SIH*SV8881 | TEST LINE ISOL SI TO 2/4 HOT LEG SOV | 3308 | HPI | SOV | CS | | 0021 | |
| 815 | M33SIH*SV8882 | TEST LINE ISOL SI COLD LEG INJ SOV | 3308 | HPI | SOV | CS | | 0006 | |
| 816 | M33SIH*SV8888 | SI ACCUM MASTER FILL ISOL SOV | 3308 | HPI | SOV | AB | | 0004 | |
| 817 | M33SIH*SV8889A | SIP HOT LEG TEST LINE | 3308 | HPI | SOV | CS | | 0016 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 818 | M33SIH*SV8889C | SIP HOT LEG TEST LINE | 3308 | HPI | SOV | CS | | 0016 | |
| 819 | M33SIH*SV8964 | SI TEST HEADER CTMT OUTER ISOL SOV | 3308 | HPI | SOV | AB | | 0017 | |
| 820 | M33FWA*HV31A | AUXILIARY FEEDWATER CONTROL VALVE | 3322 | AFW | SOV | ES | | 0024 | |
| 821 | M33FWA*HV31B | AUXILIARY FEEDWATER CONTROL VALVE | 3322 | AFW | SOV | ES | | 0024 | |
| 822 | M33FWA*HV31C | AUXILIARY FEEDWATER CONTROL VALVE | 3322 | AFW | SOV | ES | | 0024 | |
| 823 | M33FWA*HV31D | AUXILIARY FEEDWATER CONTROL VALVE | 3322 | AFW | SOV | ES | | 0024 | |
| 824 | M33FWA*HV32C | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | 3322 | AFW | SOV | ES | | 0021 | |
| 825 | M33FWA*HV36A | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | 3322 | AFW | SOV | ES | | 0036 | 06 |
| 826 | M33FWA*HV36B | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | 3322 | AFW | SOV | ES | 'B'&'D' RSS CUBICLE | 0024 | |
| 827 | M33FWA*HV36C | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | 3322 | AFW | SOV | ES | | 0024 | |
| 828 | M33FWA*HV36D | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | 3322 | AFW | SOV | ES | | 0036 | 06 |
| 829 | M33FWA*SOV23A | STEAM GENERATOR AUXILIARY FEEDWATER PUMP ALTERNATE SUCTION | 3322 | AFW | SOV | ES | | 0021 | |
| 830 | M33FWA*SOV23B | STEAM GENERATOR AUXILIARY FEEDWATER PUMP ALTERNATE SUCTION | 3322 | AFW | SOV | ES | | 0021 | |
| 831 | M33FWA*SOV25 | DEMINERALIZER WATER STORAGE TANK HEATER CIRCULATING LINE ISOLATIO | 3322 | AFW | SOV | YD | | 0025 | |
| 832 | M33FWA*SOV26 | DEMINERALIZER WATER STORAGE TANK HEATER CIRCULATING LINE ISOLATIO | 3322 | AFW | SOV | YD | | 0026 | |
| 833 | M33FWA*SOV61A | DWST TO P1A&B ISO VLVS | 3322 | AFW | SOV | ES | | 0000 | 00 |
| 834 | M33FWA*SOV61B | DWST TO P1A&B ISO VLVS | 3322 | AFW | SOV | ES | | 0000 | 00 |
| 835 | M33FWA*SOV62A | P1A&B X CONN VLVS | 3322 | AFW | SOV | ES | | | |
| 836 | M33FWA*SOV62B | P1A&B X CONN VLVS | 3322 | AFW | SOV | ES | | | |
| 837 | M33FWL*SOV104 | TURB TRIP & THR VLV LUBE OIL | 3322 | FWL | SOV | ES | | 0021 | |
| 838 | M33MSS*SOV65 | SILENCER DRAIN | 3322 | STG | SOV | ES | | 0021 | |
| 839 | M33SWP*SOV39A | EMERGENCY DIESEL COOLER OUTLET | 3326 | SWS | SOV | DG | | 0036 | |
| 840 | M33SWP*SOV39B | EMERGENCY DIESEL COOLER OUTLET | 3326 | SWS | SOV | DG | | 0036 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 841 | M33CHS*HCV190A | CHARGING HEADER FLOW CONTROL | 3304A | CVC | SOV | AB | CTMT PIPE PENETRATN | 0004 | 06 |
| 842 | M33CHS*HCV190B | CHARGING HEADER FLOW CONTROL | 3304A | CVC | SOV | AB | MEZZANINE, PENS. | 0004 | |
| 843 | M33CHS*SOV129 | LETDOWN DEMINERALIZER VOLUME CONTROL TANK | 3304A | CVC | SOV | AB | CHS HX CUBE(HI/RAD) | 0004 | 06 |
| 844 | M33CHS*SOV390A | RE69 INLET ISOLATION | 3304A | CVC | SOV | AB | NEAR SOUTH STAIRWAY | 0004 | 06 |
| 845 | M33CHS*SOV390B | RE69 OUTLET ISOLATION | 3304A | CVC | SOV | AB | NEAR SOUTH STAIRWAY | 0004 | 06 |
| 846 | M33CHS*SV112A1 | VOLUME CONTROL TANK | 3304A | CVC | SOV | AB | | 0057 | |
| 847 | M33CHS*SV112A2 | VOLUME CONTROL TANK | 3304A | CVC | SOV | AB | | 0057 | |
| 848 | M33CHS*SV8143 | EXCESS LETDOWN VCT/CDTT | 3304A | CVC | SOV | CS | | 0009 | |
| 849 | M33CHS*SV8146 | CHARGING SYSTEM TO REACTOR COOLANT SYSTEM ISOLATION | 3304A | CVC | SOV | CS | | 0010 | |
| 850 | M33CHS*SV8147 | CHARGING SYSTEM TO REACTOR COOLANT SYSTEM ISOLATION | 3304A | CVC | SOV | CS | | 0010 | |
| 851 | M33CHS*SV8149A | LETDOWN ORIFICE ISOLATION | 3304A | CVC | SOV | CS | | 0001 | |
| 852 | M33CHS*SV8149B | LETDOWN ORIFICE ISOLATION | 3304A | CVC | SOV | CS | | 0001 | |
| 853 | M33CHS*SV8149C | LETDOWN ORIFICE ISOLATION | 3304A | CVC | SOV | CS | | 0001 | |
| 854 | M33CHS*SV8152 | LETDOWN ISOLATION | 3304A | CVC | SOV | AB | | 0004 | |
| 855 | M33CHS*SV8160 | LETDOWN ISOLATION | 3304A | CVC | SOV | CS | | 0004 | |
| 856 | M33CHS*SOV110B | BA BLEND CONTAINMENT | 3304C | CVC | SOV | AB | | 0055 | |
| 857 | M33CHS*SOV111A | TOTAL MAKEUP CONTAINMENT | 3304C | CVC | SOV | AB | | 0045 | |
| 858 | M33CHS*SOV111B | TOTAL MAKEUP CONTAINMENT | 3304C | CVC | SOV | AB | | 0049 | |
| 859 | M33CHS*SV110A1 | BORIC ACID BLENDER CONTROL | 3304C | CVC | SOV | AB | | 0024 | |
| 860 | M33CHS*SV110A2 | BORIC ACID BLENDER CONTROL | 3304C | CVC | SOV | AB | | 0024 | 06 |
| 861 | M33SIL*HCV943A | SI ACCUMULATOR TANK VENT CONTROL | 3307A | LPI | SOV | CS | ACCUM A-D | -022 | |
| 862 | M33SIL*HCV943B | SI ACCUMULATOR TANK VENT CONTROL | 3307A | LPI | SOV | CS | | -024 | |
| 863 | M33SIL*SV8875A | SAFETY INJECTION ACCUM TANK 1 NITROGEN SUPPLY | 3307A | LPI | SOV | CS | ACCUM A | | |
| 864 | M33SIL*SV8875B | SAFETY INJECTION ACCUM TANK 2 NITROGEN SUPPLY | 3307A | LPI | SOV | CS | ACCUM B | | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 865 | M33SIL*SV8875C | SAFETY INJECTION ACCUM TANK 3 NITROGEN SUPPLY | 3307A | LPI | SOV | CS | ACCUM C | | |
| 866 | M33SIL*SV8875D | SAFETY INJECTION ACCUM TANK 4 NITROGEN SUPPLY | 3307A | LPI | SOV | CS | ACCUM D | | |
| 867 | M33SIL*SV8875E | SAFETY INJECT ACCUM TANK 1 N2 SUPPLY | 3307A | LPI | SOV | CS | ACCUM A | | |
| 868 | M33SIL*SV8875F | SAFETY INJECT ACCUM TANK 2 N2 SUPPLY | 3307A | LPI | SOV | CS | ACCUM B | | |
| 869 | M33SIL*SV8875G | SI ACCUM TANK 3 NITROGEN SUPPLY | 3307A | LPI | SOV | CS | ACCUM C | -018 | |
| 870 | M33SIL*SV8875H | SAFETY INJECTION ACCUM TANK 4 N2 SUPPLY | 3307A | LPI | SOV | CS | ACCUM D | -018 | |
| 871 | M33SIL*SV8880 | NITROGEN ACCUMULATOR LINE ISOLATION | 3307A | LPI | SOV | AB | | 0004 | |
| 872 | M33SIL*SV8968 | SOLENOID | 3307A | LPI | SOV | CS | | | |
| 873 | M33SIL-SV8878A | ACCUM FILL LINE ISOLATION | 3307A | LPI | SOV | CS | | -022 | |
| 874 | M33SIL-SV8878B | ACCUM FILL LINE ISOLATION | 3307A | LPI | SOV | CS | | -022 | |
| 875 | M33SIL-SV8878C | ACCUM FILL LINE ISOLATION | 3307A | LPI | SOV | CS | | -022 | |
| 876 | M33SIL-SV8878D | ACCUM FILL LINE ISOLATION | 3307A | LPI | SOV | CS | | -022 | |
| 877 | M33RHS*SOV606 | 3RHS*HCV606 AIR OPERATOR SOLENOID VALVE | 3307B | RHR | SOV | ES | | 0000 | 00 |
| 878 | M33RHS*SOV607 | 3RHS*HCV607 AIR OPERATOR SOLENOID VALVE | 3307B | RHR | SOV | ES | | 0000 | 00 |
| 879 | M33RHS*SOV618 | 3RHS*FCV618 AIR OPERATOR SOLENOID VALVE | 3307B | RHR | SOV | ES | | 0000 | 00 |
| 880 | M33RHS*SOV619 | 3RHS*FCV619 AIR OPERATOR SOLENOID VALVE | 3307B | RHR | SOV | ES | | 0000 | 00 |
| 881 | M33HVR*SOV10A | HI RANGE RAD MON SOLENOID OPERATED VALVE | 3314A | RBV | SOV | AB | | | |
| 882 | M33HVR*SOV19A | RE19A1/A2 COMPRESSED AIR ISOLATION VALVE | 3314A | RBV | SOV | AB | | | |
| 883 | M33HVR*SOV20A | AUXILIARY BLDG FILTER INLET DAMPER | 3314A | RBV | SOV | AB | | 0084 | |
| 884 | M33HVR*SOV20B | AUXILIARY BLDG FILTER INLET DAMPER | 3314A | RBV | SOV | AB | | 0066 | 06 |
| 885 | M33HVR*SOV33A | AUXILIARY BLDG HEATING & VENTILATION UNIT INLET DAMPER | 3314A | RBV | SOV | AB | | 0089 | |
| 886 | M33HVR*SOV33B | AUXILIARY BLDG HEATING & VENTILATION UNIT INLET DAMPER | 3314A | RBV | SOV | AB | | 0089 | |
| 887 | M33HVR*SOV35A | AUXILIARY BLDG HEATING & VENTILATION UNIT OUTLET DAMPER | 3314A | RBV | SOV | AB | | 0090 | |
| 888 | M33HVR*SOV35B | AUXILIARY BLDG HEATING & VENTILATION UNIT OUTLET DAMPER | 3314A | RBV | SOV | AB | | 0090 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 889 | M33HVR*SOV39A | AUXILIARY BLDG EXHAUST FAN TO ATMOSPHERE ISOLATION DAMPER | 3314A | RBV | SOV | AB | | 0088 | |
| 890 | M33HVR*SOV39B | AUXILIARY BUILDING EXHAUST FAN TO ATMOSPHERE ISOLATION DAMPER | 3314A | RBV | SOV | AB | | 0089 | |
| 891 | M33HVR*SOV40A | AUXILIARY BUILDING EXHAUST FAN TO ATMOSPHERE ISOLATION DAMPER | 3314A | RBV | SOV | AB | | 0082 | |
| 892 | M33HVR*SOV40B | AUXILIARY BUILDING EXHAUST FAN TO ATMOSPHERE ISOLATION DAMPER | 3314A | RBV | SOV | AB | | 0081 | |
| 893 | M33HVR*SOV42A | AUXILIARY BUILDING EXHAUST FAN DISCHARGE TO FILTER | 3314A | RBV | SOV | AB | | 0066 | |
| 894 | M33HVR*SOV42B | AUXILIARY BUILDING EXHAUST FAN DISCHARGE TO FILTER | 3314A | RBV | SOV | AB | | 0066 | |
| 895 | M33HVR*SOV43A | AUXILILARY BUILDING EXHAUST FAN DISHCHARGE TO FILTER | 3314A | RBV | SOV | AB | | 0087 | |
| 896 | M33HVR*SOV43B | AUXILIARY BUILDING EXHAUST FAN DISCHARGE TO FILTER | 3314A | RBV | SOV | AB | | 0087 | |
| 897 | M33HVR*SOV44A | CHARGING PUMP CUBICLE NORMAL OUTLET DAMPER | 3314A | RBV | SOV | AB | | 0066 | 06 |
| 898 | M33HVR*SOV44A1 | CHG PMP CUB NORM OUTL DMPR | 3314A | RBV | SOV | AB | | | |
| 899 | M33HVR*SOV44B | CHARGING PUMP CUBICLE NORMAL OUTLET DAMPER | 3314A | RBV | SOV | AB | | 0066 | 06 |
| 900 | M33HVR*SOV44B1 | CHG PMP CUB NORM OUTL DMPR | 3314A | RBV | SOV | AB | | | |
| 901 | M33HVR*SOV85 | PIPE TUNNEL INLET DAMPER | 3314A | RBV | SOV | AB | | 0066 | |
| 902 | M33HVR*SOV86 | PIPE TUNNEL AREA EXHAUST FAN INLET DAMPER | 3314A | RBV | SOV | AB | | 0090 | |
| 903 | M33HVR*SOV184A1 | FUEL BUILDING SUPPLY AIR ISOLATION | 3314C | RBV | SOV | FB | | 0055 | |
| 904 | M33HVR*SOV184A2 | FUEL BUILDING SUPPLY AIR ISOLATION | 3314C | RBV | SOV | FB | | 0055 | |
| 905 | M33HVR*SOV184B1 | FUEL BLDG SUPPLY AIR ISOLATION | 3314C | RBV | SOV | FB | | 0055 | |
| 906 | M33HVR*SOV184B2 | FUEL BLDG SUPPLY AIR ISOLATION | 3314C | RBV | SOV | FB | | 0055 | |
| 907 | M33HVR*SOV80A | FUEL BUILDING FILTER INLET DAMPER | 3314C | RBV | SOV | AB | | 0085 | |
| 908 | M33HVR*SOV80B | FUEL BUILDING FILTER INLET DAMPER | 3314C | RBV | SOV | AB | | 0080 | |
| 909 | M33HVR*SOV81A | FUEL BUILDING FILTER INLET DAMPER | 3314C | RBV | SOV | AB | | 0090 | |
| 910 | M33HVR*SOV81B | FUEL BUILDING FILTER INLET DAMPER | 3314C | RBV | SOV | AB | | 0066 | 06 |
| 911 | M33HVQ*SOV1190A | TEMP.CONTROL SOLENOID VALVE FOR COIL 1 | 3314D | ESG | SOV | ES | MECH ROOM B | 0036 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 912 | M33HVQ*SOV1190B | TEMP.CONTROL SOLENOID VALVE FOR COIL 1 | 3314D | ESG | SOV | ES | MECH ROOM B | 0036 | |
| 913 | M33HVQ*SOV1191A | TEMP. CONTROL SOLENOID VALVE FOR COIL-2 | 3314D | ESG | SOV | ES | MECH ROOM B | 0036 | |
| 914 | M33HVQ*SOV1191B | TEMP. CONTROL SOLENOID VALVE FOR COIL-2 | 3314D | ESG | SOV | ES | MECH ROOM B | 0036 | |
| 915 | M33HVQ*SOV1192A | HOT GAS BY-PASS SOLENOID VALVE | 3314D | ESG | SOV | ES | MECH ROOM B | 0036 | |
| 916 | M33HVQ*SOV1192B | HOT GAS BY-PASS SOLENOID VALVE | 3314D | ESG | SOV | ES | MECH ROOM B | 0036 | |
| 917 | M33HVQ*SOV1290A | TEMP.CONTROL SOLENOID VALVE FOR COIL 1 | 3314D | ESG | SOV | ES | MECH ROOM C | 0036 | |
| 918 | M33HVQ*SOV1290B | TEMP.CONTROL SOLENOID VALVE FOR COIL 1 | 3314D | ESG | SOV | ES | MECH ROOM D | 0036 | |
| 919 | M33HVQ*SOV1291A | TEMP. CONTROL SOLENOID VALVE FOR COIL-2 | 3314D | ESG | SOV | ES | MECH ROOM C | 0036 | |
| 920 | M33HVQ*SOV1291B | TEMP. CONTROL SOLENOID VALVE FOR COIL-2 | 3314D | ESG | SOV | ES | MECH ROOM D | 0036 | |
| 921 | M33HVQ*SOV1292A | HOT GAS BY-PASS SOLENOID VALVE | 3314D | ESG | SOV | ES | MECH ROOM C | 0036 | |
| 922 | M33HVQ*SOV1292B | HOT GAS BY-PASS SOLENOID VALVE | 3314D | ESG | SOV | ES | MECH ROOM D | 0036 | |
| 923 | M33HVQ*SOV40A | SI & QSS AND RES HX AREAS EXHAUST | 3314D | ESG | SOV | ES | | 0051 | |
| 924 | M33HVQ*SOV40B | SI & QSS AND RES HX AREAS EXHAUST | 3314D | ESG | SOV | ES | | 0051 | |
| 925 | M33HVQ*SOV40C | SI & QSS AND RESIDUAL HEAT EXCHANGE AREAS EXHAUST | 3314D | ESG | SOV | ES | | 0051 | |
| 926 | M33HVQ*SOV40D | SI & QSS AND RESIDUALR HEAT EXCHANGE AREAS EXHAUST | 3314D | ESG | SOV | ES | | 0051 | |
| 927 | M33HVQ*SOV41A | SI & QSS AND RES HX AREA SPLY | 3314D | ESG | SOV | ES | | 0036 | |
| 928 | M33HVQ*SOV41B | SI & QSS AND RESIDUAL HEAT TRANSFER SUPPLY | 3314D | ESG | SOV | ES | | 0036 | |
| 929 | M33HVQ*SOV41C | SI & QSS AND RESIDUAL HEAT EXCHAGE AREA SUPPPLY | 3314D | ESG | SOV | ES | | 0036 | |
| 930 | M33HVQ*SOV41D | SI & QSS AND RESIDUAL HEAT EXCHANGE AREA SUPPLY | 3314D | ESG | SOV | ES | | 0036 | |
| 931 | M33HVQ*SOV42A | CONT RECIRC PPS & CLRS AREA EXCHANGE | 3314D | ESG | SOV | ES | | 0050 | |
| 932 | M33HVQ*SOV42B | CONTAINMENT RECIRC PUMPS & COOLERS AREA EXHAUST | 3314D | ESG | SOV | ES | | 0049 | |
| 933 | M33HVQ*SOV42C | CONT RECIRC PPS & CLRS AREA EXCHANGE | 3314D | ESG | SOV | ES | | 0049 | |
| 934 | M33HVQ*SOV42D | CONTAINMENT RECIRC PUMPS & COOLERS AREA EXHAUST | 3314D | ESG | SOV | ES | | 0050 | |
| 935 | M33HVQ*SOV43A | CONTAINMENT RECIRC PUMPS & COOLERS AREA SUPPLY | 3314D | ESG | SOV | ES | | 0036 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 936 | M33HVQ*SOV43B | CONTAINMENT RECIRC PUMPS & COOLERS AREA SUPPLY | 3314D | ESG | SOV | ES | | 0036 | |
| 937 | M33HVQ*SOV43C | CONTAINMENT RECIRC PUMPS & COOLERS AREA SUPPLY | 3314D | ESG | SOV | ES | | 0036 | |
| 938 | M33HVQ*SOV43D | CONTAINMENT RECIRC PUMPS & COOLERS AREA SUPPLY | 3314D | ESG | SOV | ES | | 0036 | |
| 939 | M33HVC*SOV119A | EMERGENCY VENT RECIRC | 3314F | ACC | SOV | CB | | 0066 | |
| 940 | M33HVC*SOV119B | EMERGENCY VENT RECIRC | 3314F | ACC | SOV | CB | | 0066 | |
| 941 | M33HVC*SOV20 | CONT RM VENT OUT ISOLATION VALVE | 3314F | ACC | SOV | CB | | | |
| 942 | M33HVC*SOV21 | CONT RM VENT OUT ISOLATION VALVE | 3314F | ACC | SOV | CB | | 0064 | |
| 943 | M33HVC*SOV22 | CONT RM VENT OUT ISOLATION VALVE | 3314F | ACC | SOV | CB | | 0082 | |
| 944 | M33HVC*SOV23 | CONT RM VENT OUT ISOLATION VALVE | 3314F | ACC | SOV | CB | | 0064 | |
| 945 | M33HVC*SOV25 | CONT RM VENT INLET ISOLATION VALVE | 3314F | ACC | SOV | CB | | 0082 | |
| 946 | M33HVC*SOV26 | CONT RM VENT INLET ISOLATION VALVE | 3314F | ACC | SOV | CB | | 0064 | |
| 947 | M33HVC*SOV27A | CONT BLDG VENT INLET | 3314F | ACC | SOV | CB | | 0085 | |
| 948 | M33HVC*SOV27B | CONT BLDG VENT INLET | 3314F | ACC | SOV | CB | | 0085 | |
| 949 | M33HVC*SOV74A | BANK (A) OUTLET VALVE | 3314F | ACC | SOV | CB | ABOVE AIR FLASKS | 0078 | 06 |
| 950 | M33HVC*SOV74B | BANK B OUTLET VALVE | 3314F | ACC | SOV | CB | | 0078 | 06 |
| 951 | M33HVK*SOV1002 | (A) CONTROL BUILDING CHILLER;2-WAY OIL COOLER SOLENOID VALVE | 3314F | CBW | SOV | CB | | 0064 | 06 |
| 952 | M33HVK*SOV1027 | (B) CONTROL BUILDING CHILLER;2 WAY OIL COOLER SOLENOID VALVE | 3314F | CBW | SOV | CB | | 0000 | 00 |
| 953 | M33HVK*TV68A | SUPPLY ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 954 | M33HVK*TV68B | SUPPLY ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 955 | M33HVK*TV69A | SUPPLY ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 956 | M33HVK*TV69B | SUPPLY ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 957 | M33HVK*TV70A | CHILLED WATER SUPPLY HEADER ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 958 | M33HVK*TV70B | SUPPLY ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 959 | M33HVK*TV71A | SUPPLY ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 960 | M33HVK*TV71B | SUPPLY ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 961 | M33HVK*TV72A | RETURN ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 962 | M33HVK*TV72B | RETURN ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 963 | M33HVK*TV73A | RETURN ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 964 | M33HVK*TV73B | RETURN ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 965 | M33HVK*TV74A | RETURN ISOLATION | 3314F | CBW | SOV | CB | | 0064 | |
| 966 | M33HVK*TV74B | RETURN ISOLATION | 3314F | CBW | SOV | CB | N. WEST CORNER | 0064 | |
| 967 | M33HVK*TV75A | RETURN ISOLATION | 3314F | CBW | SOV | CB | | 0066 | |
| 968 | M33HVK*TV75B | RETURN ISOLATION | 3314F | CBW | SOV | CB | | 0066 | |
| 969 | M33DTM*SOV29A | MAIN STEAM LINE DRAIN; SOLENOID | 3316A | DTM | SOV | MS | | 0062 | |
| 970 | M33DTM*SOV29B | MAIN STEAM LINE DRAIN; SOLENOID | 3316A | DTM | SOV | MS | | 0062 | |
| 971 | M33DTM*SOV29C | MAIN STEAM LINE DRAIN | 3316A | DTM | SOV | MS | | 0062 | |
| 972 | M33DTM*SOV29D | MAIN STEAM LINE DRAIN; SOLENOID | 3316A | DTM | SOV | MS | | 0062 | |
| 973 | M33DTM*SOV61A | MAIN STEAM LINE DRAIN; SOLENOID | 3316A | DTM | SOV | MS | | 0062 | |
| 974 | M33DTM*SOV61B | MAIN STEAM LINE DRAIN; SOLENOID | 3316A | DTM | SOV | MS | | 0062 | |
| 975 | M33DTM*SOV61C | MAIN STEAM LINE DRAIN; SOLENOID | 3316A | DTM | SOV | MS | | 0062 | |
| 976 | M33DTM*SOV61D | MAIN STEAM LINE DRAIN; SOLENOID | 3316A | DTM | SOV | MS | | 0062 | |
| 977 | M33DTM*SOV63A | MAIN STEAM LINE DRAIN | 3316A | DTM | SOV | ES | | 0025 | |
| 978 | M33DTM*SOV63B | MAIN STEAM LINE DRAIN | 3316A | DTM | SOV | ES | | 0025 | |
| 979 | M33DTM*SOV63D | MAIN STEAM LINE DRAIN | 3316A | DTM | SOV | ES | | 0025 | |
| 980 | M33DTM*SOV64A | MAIN STEAM LINE DRAIN | 3316A | DTM | SOV | ES | | 0025 | |
| 981 | M33DTM*SOV64B | MAIN STEAM LINE DRAIN | 3316A | DTM | SOV | ES | | 0004 | 06 |
| 982 | M33DTM*SOV64D | MAIN STEAM LINE DRAIN | 3316A | DTM | SOV | ES | | 0025 | |
| 983 | M33MSS*SOV20A | STEAM PRESSURE RELEIF TRIP(MSI) VALVE | 3316A | STG | SOV | MS | | 0069 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 984 | M33MSS*SOV20B | STEAM PRESSURE RELEIF TRIP (MSI) VALVE | 3316A | STG | SOV | MS | | 0069 | |
| 985 | M33MSS*SOV20C | STEAM PRESSURE RELEIF TRIP (MSI) VALVE | 3316A | STG | SOV | MS | | 0069 | |
| 986 | M33MSS*SOV20D | STEAM PRESSURE RELEIF TRIP (MSI) VALVE | 3316A | STG | SOV | MS | | 0069 | |
| 987 | M33MSS*SOV28A1 | MAIN STEAM ISOLATION BYPASS | 3316A | STG | SOV | MS | | 0074 | |
| 988 | M33MSS*SOV28A2 | MAIN STEAM ISOLATION BYPASS | 3316A | STG | SOV | MS | | 0074 | |
| 989 | M33MSS*SOV28B1 | MAIN STEAM ISOLATION BYPASS | 3316A | STG | SOV | MS | | 0074 | |
| 990 | M33MSS*SOV28B2 | MAIN STEAM LINE BYPASS | 3316A | STG | SOV | MS | | 0074 | |
| 991 | M33MSS*SOV28C1 | MAIN STEAM LINE ISOLATION BYPASS | 3316A | STG | SOV | MS | | 0074 | |
| 992 | M33MSS*SOV28C2 | MAIN STEAM ISOLATION BYPASS | 3316A | STG | SOV | MS | | 0074 | |
| 993 | M33MSS*SOV28D1 | MAIN STEAM ISOLATION BYPASS | 3316A | STG | SOV | MS | | 0074 | |
| 994 | M33MSS*SOV28D2 | MAIN STEAM ISOLATION BYPASS | 3316A | STG | SOV | MS | | 0074 | |
| 995 | M33MSS*SOV31A1 | S/G AUXILIARY FEEDPUMP TURBINE STEAM SUPPLY | 3316A | STG | SOV | ES | | 0026 | |
| 996 | M33MSS*SOV31A2 | S/G AUXILIARY FEEDPUMP TURBINE STEAM SUPPLY | 3316A | STG | SOV | ES | | 0026 | |
| 997 | M33MSS*SOV31B1 | S/G AUXILIARY FEEDPUMP TURBINE STEAM SUPPLY | 3316A | STG | SOV | ES | | 0026 | |
| 998 | M33MSS*SOV31B2 | S/G AUXILIARY FEEDPUMP TURBINE STEAM SUPPLY | 3316A | STG | SOV | ES | | 0026 | |
| 999 | M33MSS*SOV31D1 | S/G AUXILIARY FEEDPUMP TURBINE STEAM SUPPLY | 3316A | STG | SOV | ES | | 0026 | |
| 1000 | M33MSS*SOV31D2 | S/G AUXILIARY FEEDPUMP TURBINE STEAM SUPPLY | 3316A | STG | SOV | ES | | 0026 | |
| 1001 | M33MSS*SV27A1A | MAIN STEAM ISOLATION TRIP VALVE (NORMALLY OPEN, CONICAL SEAT) | 3316A | STG | SOV | MS | | 0066 | |
| 1002 | M33MSS*SV27A1B | MAIN STEAM ISOLATION TRIP VALVE (NORMALLY OPEN, CONICAL SEAT) | 3316A | STG | SOV | MS | | 0066 | |
| 1003 | M33MSS*SV27A2A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1004 | M33MSS*SV27A2B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1005 | M33MSS*SV27A3A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1006 | M33MSS*SV27A3B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1007 | M33MSS*SV27A4A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1008 | M33MSS*SV27A4B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1009 | M33MSS*SV27B1A | MAIN STEAM ISOLATION TRIP VALVE (NORMALLY OPEN, CONICAL SEAT) | 3316A | STG | SOV | MS | | 0066 | |
| 1010 | M33MSS*SV27B1B | MAIN STEAM ISOLATION TRIP VALVE (NORMALLY OPEN, CONICAL SEAT) | 3316A | STG | SOV | MS | | 0066 | |
| 1011 | M33MSS*SV27B2A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1012 | M33MSS*SV27B2B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1013 | M33MSS*SV27B3A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1014 | M33MSS*SV27B3B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1015 | M33MSS*SV27B4A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1016 | M33MSS*SV27B4B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1017 | M33MSS*SV27C1A | MAIN STEAM ISOLATION TRIP VALVE (DENERGIZED CLOSED CONICAL SEAT) | 3316A | STG | SOV | MS | | 0066 | |
| 1018 | M33MSS*SV27C1B | MAIN STEAM ISOLATION TRIP VALVE (DENERGIZED CLOSED,CONICAL SEAT) | 3316A | STG | SOV | MS | | 0066 | |
| 1019 | M33MSS*SV27C2A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1020 | M33MSS*SV27C2B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1021 | M33MSS*SV27C3A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1022 | M33MSS*SV27C3B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1023 | M33MSS*SV27C4A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1024 | M33MSS*SV27C4B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1025 | M33MSS*SV27D1A | MAIN STEAM ISOLATION TRIP VALVE (NORMALLY OPEN, CONICAL SEAT) | 3316A | STG | SOV | MS | | 0066 | |
| 1026 | M33MSS*SV27D1B | MAIN STEAM ISOLATION TRIP VALVE (NORMALLY OPEN, CONICAL SEAT) | 3316A | STG | SOV | MS | | 0066 | |
| 1027 | M33MSS*SV27D2A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1028 | M33MSS*SV27D2B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1029 | M33MSS*SV27D3A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1030 | M33MSS*SV27D3B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1031 | M33MSS*SV27D4A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1032 | M33MSS*SV27D4B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | SOV | MS | | 0066 | |
| 1033 | M33MSS*SV27-SPARES | MSIV SOLENOID SPARES (DE-ENERGIZED TO OPEN OR CLOSE) | 3316A | STG | SOV | WH | | 0000 | |
| 1034 | M33CCP*SOV10A | TR A RPCCW NON-SAFETY HEADER SUPPLY ISOL SOV | 3330A | CCR | SOV | AB | | 0004 | 06 |
| 1035 | M33CCP*SOV10B | TR B RPCCW NON-SAFETY HEADER SUPPLY ISOL SOV | 3330A | CCR | SOV | AB | | 0004 | 06 |
| 1036 | M33CCP*SOV178A | RPCCW RETURN 1 RCP THERMAL BARRIER SOV | 3330A | CCR | SOV | CS | | 0003 | 08 |
| 1037 | M33CCP*SOV178B | RPCCW RETURN 2 RCP THERMAL BARRIER SOV | 3330A | CCR | SOV | CS | | 0003 | 08 |
| 1038 | M33CCP*SOV178C | RPCCW RETURN 3 RCP THERMAL BARRIER SOV | 3330A | CCR | SOV | CS | | 0003 | 08 |
| 1039 | M33CCP*SOV178D | RPCCW RETURN 4 RCP THERMAL BARRIER SOV | 3330A | CCR | SOV | CS | | 0003 | 08 |
| 1040 | M33CCP*SOV179A | TR A RPCCW SUPPLY HEADER DIV SOV | 3330A | CCR | SOV | CS | | 0021 | |
| 1041 | M33CCP*SOV179B | TR B RPCCW SUPPLY HEADER DIV SOV | 3330A | CCR | SOV | CS | | 0021 | |
| 1042 | M33CCP*SOV180A | TR A RPCCW RETURN HEADER DIV SOV | 3330A | CCR | SOV | CS | | 0006 | |
| 1043 | M33CCP*SOV180B | TR B RPCCW RETURN HEADER DIV SOV | 3330A | CCR | SOV | CS | | 0006 | |
| 1044 | M33CCP*SOV194A | TR A RPCCW NON-SAFETY HEADER RETURN ISOL SOV | 3330A | CCR | SOV | AB | | 0004 | 06 |
| 1045 | M33CCP*SOV194B | TR B RPCCW NON-SAFETY HEADER RETURN ISOL SOV | 3330A | CCR | SOV | AB | | 0004 | 06 |
| 1046 | M33CCP*SOV197A | TR A RPCCW NON-SAFETY HEADER SUPPLY ISOL SOV | 3330A | CCR | SOV | AB | | 0004 | 06 |
| 1047 | M33CCP*SOV197B | TR B RPCCW NON-SAFETY HEADER SUPPLY ISOL SOV | 3330A | CCR | SOV | AB | | 0004 | 06 |
| 1048 | M33CCP*SOV19A | TR A RPCCW NON-SAFETY HEADER RETURN ISOL SOV | 3330A | CCR | SOV | AB | | 0004 | 06 |
| 1049 | M33CCP*SOV19B | TR B RPCCW NON-SAFETY HEADER RETURN ISOL SOV | 3330A | CCR | SOV | AB | | 0004 | 06 |
| 1050 | M33CCP*SOV66A | RHR HEAT EXCHANGER A COOLING OUTLET SOV | 3330A | CCR | SOV | ES | | 0006 | |
| 1051 | M33CCP*SOV66B | RHR HEAT EXCHANGER B COOLING OUTLET SOV | 3330A | CCR | SOV | ES | | 0006 | |
| 1052 | M33CCE*SOV26A | CHARGING PUMP COOLER OUT CROSSOVER | 3330D | CCE | SOV | AB | | 0028 | |
| 1053 | M33CCE*SOV26B | CHARGING PUMP COOLER OUT CROSSOVER | 3330D | CCE | SOV | AB | | 0028 | |
| 1054 | M33CCE*SOV30A | CHARGING PUMP COOLING PUMP DISCHARGE CROSSOVER | 3330D | CCE | SOV | AB | | 0025 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1055 | M33CCE*SOV30B | CHARGING PUMP COOLING PUMP DISCHARGE CROSSOVER | 3330D | CCE | SOV | AB | | 0025 | |
| 1056 | M33CCE*SOV37A | CHARGING PUMP COOLING TEMPERATURE OUTLET SOLENOID | 3330D | CCE | SOV | AB | | 0025 | |
| 1057 | M33CCE*SOV37B | CHARGING PUMP COOLING TEMPERATURE OUTLET SOLENOID | 3330D | CCE | SOV | AB | | 0025 | |
| 1058 | M33EGA*SOV25A | (A) DIESEL START AIR SHUTDOWN SOLENOID | 3346A | DSA | SOV | DG | A TRAIN | 0027 | 00 |
| 1059 | M33EGA*SOV25B | (B) DIESEL START AIR SHUTDOWN SOLENOID | 3346A | DSA | SOV | DG | B TRAIN | 0027 | 00 |
| 1060 | M33EGA*SOV26A | (A) DIESEL START AIR START SOLENOID HEADER 2A | 3346A | DSA | SOV | DG | A TRAIN | 0027 | 00 |
| 1061 | M33EGA*SOV26B | (B) DIESEL START AIR START SOLENOID HEADER 2B | 3346A | DSA | SOV | DG | B TRAIN | 0027 | 00 |
| 1062 | M33EGA*SOV27A | (A) DIESEL START AIR START SOLENOID HEADER 1A | 3346A | DSA | SOV | DG | A TRAIN | 0027 | 00 |
| 1063 | M33EGA*SOV27B | (B) DIESEL START AIR START SOLENOID HEADER 1B | 3346A | DSA | SOV | DG | D/G 'B' | 0027 | 00 |
| 1064 | M33SIH*STRT1A | STRAINER (Y. 6IN) | 3308 | HPI | STR | AB | | 0021 | |
| 1065 | M33SIH*STRT1B | STRAINER | 3308 | HPI | STR | AB | | 0021 | |
| 1066 | M33SWP*STR1A | SERVICE WATER PUMP STRAINER | 3326 | SWS | STR | CW | | 0014 | |
| 1067 | M33SWP*STR1B | SERVICE WATER PUMP STRAINER | 3326 | SWS | STR | CW | | 0014 | |
| 1068 | M33SWP*STR1C | SERVICE WATER PUMP STRAINER | 3326 | SWS | STR | CW | | 0014 | |
| 1069 | M33SWP*STR1D | SERVICE WATER PUMP STRAINER | 3326 | SWS | STR | CW | EAST SWP CUBICLE | 0014 | |
| 1070 | M33SWP*STR3A | SERVICE WATER PUMP STRAINER MOTOR | 3326 | SWS | STR | CW | | 0014 | |
| 1071 | M33SWP*STR3B | SERVICE WATER PUMP STRAINER MOTOR | 3326 | SWS | STR | CW | SWP*PUMP B&D CUB | 0014 | |
| 1072 | M33SWP*STR3C | SERVICE WATER PUMP STRAINER MOTOR | 3326 | SWS | STR | CW | A&C STRNR CUB. | 0014 | |
| 1073 | M33SWP*STR3D | SERVICE WATER PUMP STRAINER | 3326 | SWS | STR | CW | | 0014 | |
| 1074 | M33EGA*STR1A | EMERGENCY GENERATOR AIR STARTUP STRAINER | 3346A | DSA | STR | DG | D/G 'A' | 0027 | |
| 1075 | M33EGA*STR1B | EMERGENCY GENERATOR AIR STARTUP STRAINER | 3346A | DSA | STR | DG | D/G 'B' | 0027 | |
| 1076 | M33EGA*STR2A | EMERGENCY GENERATOR AIR STARTUP STRAINER | 3346A | DSA | STR | DG | D/G 'A' | 0027 | |
| 1077 | M33EGA*STR2B | EMERGENCY GENERATOR AIR STARTUP STRAINER | 3346A | DSA | STR | DG | D/G 'B' | 0027 | |
| 1078 | M33EGO*STR1A | LUBE OIL STRAINER | 3346A | DLS | STR | DG | D/G 'A' | 0027 | |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1079 | M33EGO*STR1B | LUBE OIL STRAINER | 3346A | DLS | STR | DG | D/G 'B' | 0027 | |
| 1080 | M33EGO*STR2A | PRELUBE OIL FILTER PUMP STRAINER | 3346A | DLS | STR | DG | D/G 'A' | | |
| 1081 | M33EGO*STR2B | PRELUBE OIL FILTER PUMP STRAINER | 3346A | DLS | STR | DG | D/G 'B' | | |
| 1082 | M33EGO*STR4A | LUBE OIL SUCTION STRAINER | 3346A | DLS | STR | DG | D/G 'A' | | |
| 1083 | M33EGO*STR4B | LUBE OIL SUCTION STRAINER | 3346A | DLS | STR | DG | D/G 'B' | 0027 | |
| 1084 | M33EGO*STR5A | LUBE OIL STRAINER | 3346A | DLS | STR | DG | D/G 'A' | | |
| 1085 | M33EGO*STR5B | LUBE OIL STRAINER | 3346A | DLS | STR | DG | D/G 'B' | 0024 | 06 |
| 1086 | M33EGF*STR1A | FUEL OIL XFER PUMP 1A DISC.STR.(EXTINSION LADDER REQD.FOR ENTRY) | 3346B | DFS | STR | FV | FUEL VAULT 'A' | 0017 | |
| 1087 | M33EGF*STR1B | B TRANSFER PUMP DISCHARGE STRAINER | 3346B | DFS | STR | FV | FUEL VAULT 'B' | 0017 | |
| 1088 | M33EGF*STR1C | FUEL OIL XFER PUMP 1C DISC.STR.(EXTINSION LADDER REQD.FOR ENTRY) | 3346B | DFS | STR | FV | FUEL VAULT 'A' | 0017 | |
| 1089 | M33EGF*STR1D | FUEL OIL XFER PUMP 1D DISC.STR.(EXTINSION LADDER REQD.FOR ENTRY) | 3346B | DFS | STR | FV | FUEL VAULT 'B' | 0017 | |
| 1090 | M33RCS*SV8010A | PRESSURIZER SAFETY VALVE 'A' | 3301 | RCS | SVL | CS | PRESSURIZER CUBE | 0079 | |
| 1091 | M33RCS*SV8010B | PRESSURIZER SAFETY VALVE | 3301 | RCS | SVL | CS | PRESSURIZER CUBE | 0079 | |
| 1092 | M33RCS*SV8010C | PRESSURIZER SAFETY VALVE | 3301 | RCS | SVL | CS | PRESSURIZER | 0079 | |
| 1093 | M33SFC*RV52A | 'A' FUEL POOL COOLER OUTLET | 3305 | SFC | SVL | FB | SFC HEAT EXCH RM | 0053 | |
| 1094 | M33SFC*RV52B | 'B' FUEL POOL COOLER OUTLET | 3305 | SFC | SVL | FB | SFC HEAT EXCH RM | 0053 | |
| 1095 | M33SIH*RV1001 | 3SIH*P1A (A) SIH PUMP;OIL PRESSURE REGULATING RELIEF VALVE | 3308 | HPI | SVL | ES | | 0000 | 00 |
| 1096 | M33SIH*RV1003 | 3SIH*P1B (B) SIH PUMP;OIL PRESSURE REGULATING RELIEF VALVE | 3308 | HPI | SVL | ES | | 0000 | 00 |
| 1097 | M33SIH*RV8851 | HI PRESSURE SAFETY INJECTION COMMON HEADER RELIEF | 3308 | HPI | SVL | ES | MEZZ BHND QSS-PA | 0032 | |
| 1098 | M33SIH*RV8853A | 3SIH*P1A DISCHARGE HEADER RELIEF | 3308 | HPI | SVL | ES | BEHIND QSS PUMP A | 0021 | 06 |
| 1099 | M33SIH*RV8853B | LOOPS 1 & 3 HOT LEG INJECTION RELIEF VALVE | 3308 | HPI | SVL | ES | BEHIND QSS PUMP B | 0021 | 06 |
| 1100 | M33SIH*RV8858 | SAFETY INJECTION (COMMON) SUCTION HEADER RELIEF | 3308 | HPI | SVL | ES | SUMP PUMP | 0004 | 06 |
| 1101 | M33SIH*RV8870 | PENETRATION 99 OVERPRESSURE PROTECTION-INSIDE | 3308 | HPI | SVL | CS | ANNULUS | | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1102 | M33SIH*RV8925A | 3SIH*P1A SUCTION LINE RELIEF VALVE | 3308 | HPI | SVL | ES | | | |
| 1103 | M33SIH*RV8925B | 3SIH*P1B SUCTION LINE RELIEF | 3308 | HPI | SVL | ES | | | |
| 1104 | M33FWA*RV45 | TURBINE AUXILIARY FEEDWATER PUMP DISCHARGE RELIEF | 3322 | AFW | SVL | ES | AUX TURB PUMP ROOM | 0024 | 06 |
| 1105 | M33FWA*RV64A | AUX FEED PUMP P1A SUCTION RELIEF VAVE | 3322 | AFW | SVL | ES | | | |
| 1106 | M33FWA*RV64B | AUXILIARY FEEDWATER 3FWA*P1B SUCTION LINE RELIEF | 3322 | AFW | SVL | ES | | | |
| 1107 | M33FWA*RV65 | AUXILIARY FEEDWATER 3FWA*P2 SUCTION LINE RELIEF | 3322 | AFW | SVL | ES | | | |
| 1108 | M33FWL*RV110 | AUX FD WTR P2 L.O. PP DISH RLF | 3322 | FWL | SVL | ES | | | |
| 1109 | M33FWL*RV117A | AUXILIARY FEEDWATER PUMP P1 LUBE OIL PUMP DISCHARGE RELIEF | 3322 | FWL | SVL | ES | | | |
| 1110 | M33FWL*RV117B | AUXILIARY FEEDWATER PUMP P1 LUBE OIL PUMP DISCHARGE RELIEF | 3322 | FWL | SVL | ES | | | |
| 1111 | M33SWP*RV132A | MCC ROD CONTROL A/C UNIT "A" RELIEF | 3326 | SWS | SVL | AB | MCC A/C UNIT ROOM | 0066 | 06 |
| 1112 | M33SWP*RV132B | MCC ROD CONTROL A/C UNIT "B" RELIEF | 3326 | SWS | SVL | AB | MCC A/C UNIT ROOM | 0066 | 06 |
| 1113 | M33SWP*RV89A | CONT BLDG A/C UNIT WATER CHILLER "A" RELIEF | 3326 | SWS | SVL | CB | A/C UNIT ROOM | 0064 | 06 |
| 1114 | M33SWP*RV89B | CONT BLDG A/C UNIT WATER CHILLER "B" RELIEF | 3326 | SWS | SVL | CB | A/C UNIT | 0064 | 06 |
| 1115 | M33SWP*RV90A | EMER DIESEL GEN AIR CLR HEAT EXCHANGER "A" RELIEF | 3326 | SWS | SVL | DG | "A" EMRGNCY DSL GEN | 0024 | 06 |
| 1116 | M33SWP*RV90B | EMER DIESEL GEN AIR CLR HEAT EXCHANGER "B" RELIEF | 3326 | SWS | SVL | DG | "B" EMRGNCY DSL GEN | 0024 | 06 |
| 1117 | M33SWP*RV91A | CTMT RECIRC PMP A/C UNIT "A" RELIEF | 3326 | SWS | SVL | ES | SELF CONT A/C-2A | 0051 | 04 |
| 1118 | M33SWP*RV91B | CTMT RECIRC PMP A/C UNIT "B" RELIEF | 3326 | SWS | SVL | ES | SELF CONT A/C-2B | 0051 | 04 |
| 1119 | M33SWP*RV92A | RSDL HT RMVL PMP A/C UNIT "A" RELIEF | 3326 | SWS | SVL | ES | SELF CONT A/C-1A | 0051 | 04 |
| 1120 | M33SWP*RV92B | RSDL HT RMVL PMP A/C UNIT "B" RELIEF | 3326 | SWS | SVL | ES | SELF CONT A/C-1B | 0051 | 04 |
| 1121 | M33SWP*RV93A | SAFETY INJECTION PMP COOLER "A" RELIEF | 3326 | SWS | SVL | ES | SFTY INJ PMP ROOM | 0020 | 06 |
| 1122 | M33SWP*RV93B | SAFETY INJECTION PMP COOLER "B" RELIEF | 3326 | SWS | SVL | ES | SFTY INJEC PMP ROOM | 0020 | 06 |
| 1123 | M33SWP*RV94A | A RSS HEAT EXCHANGER RELEIF | 3326 | SWS | SVL | ES | RSS HEAT EXCHANGER | 0051 | 04 |
| 1124 | M33SWP*RV94B | B RSS HEAT EXCHANGER RELEIF | 3326 | SWS | SVL | ES | RSS HEAT EXCHANGER | 0051 | 04 |
| 1125 | M33SWP*RV94C | C RSS HEAT EXCHANGER RELEIF | 3326 | SWS | SVL | ES | RSS HX | 0051 | 04 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1126 | M33SWP*RV94D | D RSS HEAT EXCHANGER RELEIF | 3326 | SWS | SVL | ES | RSS HX | 0051 | 04 |
| 1127 | M33SWP*RV95A | RX PLANT COMP COOL WATER HEAT EXCH "A" RELIEF | 3326 | SWS | SVL | AB | CCP HX AREA | 0024 | 06 |
| 1128 | M33SWP*RV95B | RX PLANT COMP COOL WATER HEAT EXCH "B" RELIEF | 3326 | SWS | SVL | AB | CCP HX | 0024 | 06 |
| 1129 | M33SWP*RV95C | RX PLT CMPNT CLG WATER HEAT EXCH "C" RELIEF | 3326 | SWS | SVL | AB | CCP HX | 0024 | 06 |
| 1130 | M33SWP*RV96A | CHARGING PUMP COOLER "A" RELIEF | 3326 | SWS | SVL | AB | CCE HX | 0024 | 06 |
| 1131 | M33SWP*RV96B | CHARGING PUMP COOLER "B" RELIEF | 3326 | SWS | SVL | AB | CCE HX | 0024 | 06 |
| 1132 | M33CHS*RV8113 | SEAL WATER RETURN RELIEF VALVE (INSIDE CTMT) | 3304A | CVC | SVL | CS | PEN. 23Z | 0003 | 08 |
| 1133 | M33CHS*RV8117 | LETDOWN LINE INSIDE CTMT RELIEF | 3304A | CVC | SVL | CS | OUTSD OF GEN (C)CUBE | 0003 | 08 |
| 1134 | M33CHS*RV8119 | LOW PRESSURE LETDOWN CONTROLLER RELIEF | 3304A | CVC | SVL | AB | SEAL WATER HX CUBE | 0004 | 06 |
| 1135 | M33CHS*RV8120 | VOLUME CONTROL TANK PRESSURE RELIEF | 3304A | CVC | SVL | AB | LTDWN HEAT EXCHANGER | 0004 | 06 |
| 1136 | M33CHS*RV8121 | SEAL RETURN LINE INLET CONTAINMENT RELIEF | 3304A | CVC | SVL | CS | NEAR PEN 23Z | 0003 | 08 |
| 1137 | M33CHS*RV8123 | SEAL WATER HEAT EXCHANGER RELIEF | 3304A | CVC | SVL | AB | SEALWATER HX | 0004 | 06 |
| 1138 | M33CHS*RV8124 | LOW PRESS SI SUCTION RELIEF TO CHS PUMPS | 3304A | CVC | SVL | AB | "A" CHG PUMP CUBICLE | 0024 | 06 |
| 1139 | M33CHS*RV8351 | PEN#62 OVERPRESSURE RELIEF | 3304A | CVC | SVL | CS | | | |
| 1140 | M33CHS*RV8501A | CHARGING PUMP 3CHS*P3A SUCTION LINE RELIEF | 3304A | CVC | SVL | AB | 3CHS*P3A CUBICLE | | |
| 1141 | M33CHS*RV8501B | CHARGING PUMP 3CHS*P3B SUCTION LINE RELIEF | 3304A | CVC | SVL | AB | 3CHS*P3B CUBICLE | | |
| 1142 | M33CHS*RV8501C | CHARGING PUMP 3CHS*P3C SUCTION LINE RELIEF | 3304A | CVC | SVL | AB | 3CHS*P3C CUBICLE | | |
| 1143 | M33SIL*RV8855A | ACCUMULATOR TANK RELIEF | 3307A | LPI | SVL | CS | | 0003 | |
| 1144 | M33SIL*RV8855B | ACCUMULATOR TANK RELIEF | 3307A | LPI | SVL | CS | | 0003 | |
| 1145 | M33SIL*RV8855C | ACCUMULATOR TANK RELIEF | 3307A | LPI | SVL | CS | | 0003 | |
| 1146 | M33SIL*RV8855D | ACCUMULATOR TANK RELIEF | 3307A | LPI | SVL | CS | | 0003 | |
| 1147 | M33SIL*RV8857 | SIL ACCUMULATOR NITROGEN SUPPLY RELIEF VALVE | 3307A | LPI | SVL | CS | VLV MZZNNE FRM AUX | 0022 | |
| 1148 | M33RHS*RV37A | "A" TRAIN RHR SUCTION RELIEF BETWEEN 8701C AND 8701A | 3307B | RHR | SVL | CS | CTMT PASSAGEWAY | 0004 | 06 |
| 1149 | M33RHS*RV37B | B RHS SUCTION HEADER CONTAINMENT RELIEF | 3307B | RHR | SVL | CS | CTMT PASSAGEWAY | 0004 | 06 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1150 | M33RHS*RV8708A | RHS PUMP A SUCTION HEADER RELIEF (91-OUTSIDE) | 3307B | RHR | SVL | CS | CTMT PASSAGEWAY | 0004 | 06 |
| 1151 | M33RHS*RV8708B | RHS PUMP B SUCTION HEADER RELIEF (92-OUTSIDE) | 3307B | RHR | SVL | CS | CTMT PASSAGEWAY | 0004 | 06 |
| 1152 | M33SIL*RV8842 | RHS PUMP COMMON DISCHARGE HEADER RELIEF | 3307B | LPI | SVL | ES | RHR B CUBE OVERHEAD | 0004 | 06 |
| 1153 | M33SIL*RV8856A | "A" RESIDUAL HEAT REMOVAL PUMP DISCHARGE HEADER RELIEF | 3307B | LPI | SVL | ES | A RHR PUMP ROOM | 0004 | 06 |
| 1154 | M33SIL*RV8856B | B RHS PUMP DISCHARGE HEADER RELIEF | 3307B | LPI | SVL | ES | B RHR ROOM OVERHEAD | 0004 | 06 |
| 1155 | M33HVR*RV10A1 | HI RANGE RAD MON | 3314A | RBV | SVL | AB | | | |
| 1156 | M33HVR*RV10B1 | NORM RANGE RAD MON | 3314A | RBV | SVL | AB | | | |
| 1157 | M33HVR*RV19A1 | HI RANGE RAD MON | 3314A | RBV | SVL | AB | | | |
| 1158 | M33HVR*RV19B1 | HI RANGE RAD MON | 3314A | RBV | SVL | AB | | | |
| 1159 | M33HVQ*RV68A1 | RELIEF VALVE TO 3HVQ*ACUS1A CONDENSER | 3314D | ESG | SVL | ES | | | |
| 1160 | M33HVQ*RV68A2 | RELIEF VALVE TO 3HVQ*ACUS2B | 3314D | ESG | SVL | ES | | | |
| 1161 | M33HVQ*RV68A3 | RELIEF VALVE FROM ACUS UNIT | 3314D | ESG | SVL | ES | | | |
| 1162 | M33HVQ*RV68A4 | RELIEF VALVE FROM ACUS UNIT | 3314D | ESG | SVL | ES | | | |
| 1163 | M33HVQ*RV68B1 | RELIEF VALVE TO 3HVQ*ACUS1B CONDENSER | 3314D | ESG | SVL | ES | | | |
| 1164 | M33HVQ*RV68B2 | RELIEF VALVE TO 3HVQ*ACUS1B CONDENSER | 3314D | ESG | SVL | ES | | | |
| 1165 | M33HVQ*RV68B3 | RELIEF VALVE FROM ACUS UNIT | 3314D | ESG | SVL | ES | | | |
| 1166 | M33HVQ*RV68B4 | RELIEF VALVE FROM ACUS UNIT | 3314D | ESG | SVL | ES | | | |
| 1167 | M33HVQ*RV69A1 | RELIEF VALVE TO 3HVQ*ACUS2A CONDENSER | 3314D | ESG | SVL | ES | | | |
| 1168 | M33HVQ*RV69A2 | RELIEF VALVE TO 3HVQ*ACUS2A CONDENSER | 3314D | ESG | SVL | ES | | | |
| 1169 | M33HVQ*RV69A3 | RELIEF VALVE FROM ACUS UNIT | 3314D | ESG | SVL | ES | | | |
| 1170 | M33HVQ*RV69A4 | RELIEF VALVE FROM ACUS UNIT | 3314D | ESG | SVL | ES | | | |
| 1171 | M33HVQ*RV69B1 | RELIEF VALVE TO 3HVQ*ACUS2B CONDENSER | 3314D | ESG | SVL | ES | | | |
| 1172 | M33HVQ*RV69B2 | RELIEF VALVE TO 3HVQ*ACUS2B | 3314D | ESG | SVL | ES | | | |
| 1173 | M33HVQ*RV69B3 | RELIEF VALVE FROM ACUS UNIT | 3314D | ESG | SVL | ES | | | |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1174 | M33HVQ*RV69B4 | RELIEF VALVE FROM ACUS UNIT | 3314D | ESG | SVL | ES | | | |
| 1175 | M33HVC*RV125A1 | AIR STORAGE TANK RELIEF | 3314F | ACC | SVL | CB | | 0076 | 06 |
| 1176 | M33HVC*RV125A2 | AIR STORAGE TANK RELIEF | 3314F | ACC | SVL | CB | | 0076 | 06 |
| 1177 | M33HVC*RV125B1 | AIR STORAGE TANK RELIEF | 3314F | ACC | SVL | CB | | 0078 | 06 |
| 1178 | M33HVC*RV125B2 | AIR STORAGE TANK RELIEF | 3314F | ACC | SVL | CB | | 0076 | 06 |
| 1179 | M33MSS*RV22A | A STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | S.E. CORNER OF MSVB | 0069 | |
| 1180 | M33MSS*RV22B | B STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | SE CORNER OF MSVB | 0069 | |
| 1181 | M33MSS*RV22C | C S/G SAFETY VALVE | 3316A | STG | SVL | MS | N.E. CORNER OF MSVB | 0069 | |
| 1182 | M33MSS*RV22D | D STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | N.E. CORNER OF MSVB | 0069 | |
| 1183 | M33MSS*RV23A | A STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | S.E. CORNER OF MSVB | 0076 | |
| 1184 | M33MSS*RV23B | B STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | S.E CORNER OF MSVB | 0076 | |
| 1185 | M33MSS*RV23C | C S/G SAFETY VALVE | 3316A | STG | SVL | MS | N.E. CORNER OF MSVB | 0076 | |
| 1186 | M33MSS*RV23D | D STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | N.E. CORNER OF MSVB | 0076 | |
| 1187 | M33MSS*RV24A | A STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | S.E. CORNER OF MSVB | 0076 | |
| 1188 | M33MSS*RV24B | B STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | S.E. CORNER OF MSVB | 0076 | |
| 1189 | M33MSS*RV24C | C S/G SAFETY VALVE | 3316A | STG | SVL | MS | N.E. CORNER OF MSVB | 0076 | |
| 1190 | M33MSS*RV24D | D STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | N.E. CORNER OF MSVB | 0076 | |
| 1191 | M33MSS*RV25A | A STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | S.E. CORNER OF MSVB | 0076 | |
| 1192 | M33MSS*RV25B | B STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | | 0068 | |
| 1193 | M33MSS*RV25C | C S/G SAFETY VALVE | 3316A | STG | SVL | MS | N.E. CORNER OF MSVB | 0076 | |
| 1194 | M33MSS*RV25D | "D" STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | N.E. CORNER OF MSVB | 0076 | |
| 1195 | M33MSS*RV26A | A STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | S.E. CORNER OF MSVB | 0076 | |
| 1196 | M33MSS*RV26B | B STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | S.E. CORNER OF MSVB | 0076 | |
| 1197 | M33MSS*RV26C | C S/G SAFETY VALVE | 3316A | STG | SVL | MS | N.E. CORNER OF MSVB | 0076 | |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1198 | M33MSS*RV26D | "D" STEAM GENERATOR SAFETY VALVE | 3316A | STG | SVL | MS | | 0068 | |
| 1199 | M33CCP*RV239A | RHR PUMP A SEAL COOLER RELIEF | 3330A | CCR | SVL | ES | RHR A CUBICLE | 0012 | 06 |
| 1200 | M33CCP*RV239B | RHR PUMP B SEAL COOLER RELIEF | 3330A | CCR | SVL | ES | RHR B | 0018 | |
| 1201 | M33CCP*RV258A | REACTOR COOLANT PUMP UPPER BEARING | 3330A | CCR | SVL | CS | | 0037 | |
| 1202 | M33CCP*RV258B | REACTOR COOLANT PUMP UPPER BEARING | 3330A | CCR | SVL | CS | | 0037 | |
| 1203 | M33CCP*RV258C | REACTOR COOLANT PUMP UPPER BEARING | 3330A | CCR | SVL | CS | | 0037 | |
| 1204 | M33CCP*RV258D | REACTOR COOLANT PUMP UPPER BEARING | 3330A | CCR | SVL | CS | | 0037 | |
| 1205 | M33CCP*RV275A | CONTAINMENT PENETRATION (A) RELIEF (41-OUTSIDE) | 3330A | CCR | SVL | AB | PENETRATION MEZZANIN | | |
| 1206 | M33CCP*RV275B | CTMT PEN (B) RELIEF (42-OUTSIDE) | 3330A | CCR | SVL | AB | PENE MEZZANINE #42 | | |
| 1207 | M33CCP*RV39 | EXCESS LETDOWN HEAT EXCHANGE SHELL SIDE RELIEF | 3330A | CCR | SVL | CS | EXCESS LTD HX CUB | -010 | |
| 1208 | M33CCP*RV54A | RCP (A) THERMAL BARRIER RELIEF | 3330A | CCR | SVL | CS | IN MEZZANINE | 0020 | |
| 1209 | M33CCP*RV54B | RCP (B) BARRIER RELIEF | 3330A | CCR | SVL | CS | (C) CUBE MEZZANINE | 0020 | |
| 1210 | M33CCP*RV54C | RCP (C) THERMAL BARRIER RELIEF | 3330A | CCR | SVL | CS | CUBICLE C,MEZZANINE | 0020 | |
| 1211 | M33CCP*RV54D | REACTOR COOLANT PUMP THERMAL BARRIER RELIEF | 3330A | CCR | SVL | CS | CUBICLE D | 0018 | |
| 1212 | M33CCP*RV59A | SPENT FUEL POOL COOLER RELIEF | 3330A | CCR | SVL | FB | FUEL POOL COOLER RM | 0052 | 06 |
| 1213 | M33CCP*RV59B | B FUEL POOL COOLER RELIEF VALVE | 3330A | CCR | SVL | FB | FUEL POOL COOLER RM | 0052 | 06 |
| 1214 | M33CCP*RV64A | RHR HEAT EXCHANGER A RELIEF | 3330A | CCR | SVL | ES | RHR (A) | 0008 | 06 |
| 1215 | M33CCP*RV64B | RHR HEAT EXCHANGER B RELIEF | 3330A | CCR | SVL | ES | RHR B | 0008 | 06 |
| 1216 | M33CCP*RV82 | RFO CCP RV82 | 3330A | CCR | SVL | AB | | 0035 | |
| 1217 | M33CCP*RV85 | SEAL WATER HEAT TRANSFER SHELL SIDE RELIEF VALVE | 3330A | CCR | SVL | AB | UP & IN SEAL WTR CUB | 0024 | 06 |
| 1218 | M33CCE*RV40A | 3CCE-E1 DISCHARGE | 3330D | CCE | SVL | AB | CHRG PP CLG ROOM | 0024 | 06 |
| 1219 | M33CCE*RV40B | 3CCE-E1 DISCHARGE | 3330D | CCE | SVL | AB | CHRG PP CDLG ROOM | 0024 | 06 |
| 1220 | M33CCE*RV43A | A CHG PUMP COOLING RELIEF VALVE | 3330D | CCE | SVL | AB | CCE PUMP A ROOM | | |
| 1221 | M33CCE*RV43B | CHARGING PUMP B OIL COOLER RELIEF | 3330D | CCE | SVL | AB | CCE PUMP B ROOM | | |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1222 | M33CCE*RV43C | CHARGING PUMP "C" OIL COOLER RELIEF | 3330D | CCE | SVL | AB | CCE PUMP C ROOM | | |
| 1223 | M33EGA*RV24A1 | "A" DIESEL STARTING AIR RECEIVER TANK 1A RELIEF (V8) | 3346A | DSA | SVL | DG | D/G A | 0034 | |
| 1224 | M33EGA*RV24A2 | "A" DIESEL STARTING AIR RECEIVER TANK 2A RELIEF (V15) | 3346A | DSA | SVL | DG | A TRAIN | 0034 | |
| 1225 | M33EGA*RV24B1 | "B" DIESEL STARTING AIR RECEIVER TANK 1B RELIEF (V34) | 3346A | DSA | SVL | DG | B TRAIN | 0034 | |
| 1226 | M33EGA*RV24B2 | "B" DIESEL STARTING AIR RECEIVER TANK 2B RELIEF (V41) | 3346A | DSA | SVL | DG | B TRAIN | 0034 | |
| 1227 | M33EGO*RV31A | PRE-LUBE OIL AND FILTER PUMP DISCH RELIEF VALVE | 3346A | DLS | SVL | DG | D/G 'A' | 0025 | |
| 1228 | M33EGO*RV31B | PRE-LUBE OIL AND FILTER PUMP DISCH RELIEF VALVE | 3346A | DLS | SVL | DG | D/G 'B' | 0025 | |
| 1229 | M33EGO*RV36A | ROCKER ARM PRE-LUBE OIL PP DISCH RELIEF VALVE | 3346A | DLS | SVL | DG | D/G 'A' | 0025 | |
| 1230 | M33EGO*RV36B | MOTOR DRIVEN ROCKER ARM PRE-LUBE OIL PUMP DISCHARGE | 3346A | DLS | SVL | DG | D/G 'B' | 0025 | |
| 1231 | M33EGO*RV37A | ENGINE DRIVEN ROCKER ARM LUBE OIL PUMP DISCH RELIEF VALVE | 3346A | DLS | SVL | DG | D/G 'A' | 0025 | |
| 1232 | M33EGO*RV37B | ENGINE DRIVEN ROCKER ARM LUBE OIL PUMP DISCH RELIEF VALVE | 3346A | DLS | SVL | DG | | 0025 | |
| 1233 | M33EGO*RV38A | ENGINE DRIVEN LUBE OIL PUMP DISCHARGE | 3346A | DLS | SVL | DG | D/G 'A' | 0025 | |
| 1234 | M33EGO*RV38B | ENGINE DRIVEN LUBE OIL PUMP DISCHARGE | 3346A | DLS | SVL | DG | D/G 'B' | 0025 | |
| 1235 | M33EGS*RV32A | JACKET WATER HEATER OUTLET RELIEF VALVE | 3346A | DGN | SVL | DG | D/G 'A' | 0025 | |
| 1236 | M33EGS*RV32B | JACKET WATER HEATER OUTLET RELIEF VALVE | 3346A | DGN | SVL | DG | D/G 'B' | 0025 | |
| 1237 | M33EGF*RV35A | "A" DIESEL ENGINE DRIVEN FUEL PUMP P3A RELIEF | 3346B | DFS | SVL | DG | DG "A" | | |
| 1238 | M33EGF*RV35B | "B" DIESEL ENGINE DRIVEN FUEL PUMP P3B RELIEF | 3346B | DFS | SVL | DG | DG "B" | | |
| 1239 | M33EGF*RV36A | "A" DIESEL DC MOTOR DRIVEN FUEL PUMP P2A RELIEF | 3346B | DFS | SVL | DG | DG "A" | | |
| 1240 | M33EGF*RV36B | "B" DIESEL DC MOTOR DRIVEN FUEL PUMP P2B RELIEF | 3346B | DFS | SVL | DG | DG "B" | | |
| 1241 | M334C | 4.16KV EMERG BUS | 3343 | ES4 | SWG | CB | SWITCHGEAR | 0004 | 06 |
| 1242 | M334D | 4.16KV EMERG BUS | 3343 | ES4 | SWG | CB | SWITCHGEAR | 0004 | 06 |
| 1243 | M33CHS*TRS-P3C/1 | 34D21-2/34C22-2 TRANSFER SWITCH TO 3CHS*P3C | 3304A | CVC | SWT | AB | | 0045 | |
| 1244 | M33CHS*TRS-P3C/2 | 34D21-2/34C22-2 TRANSFER SWITCH #2 TO 3CHS*P3C | 3304A | CVC | SWT | AB | | 0045 | |
| 1245 | M33CCP*TRS-P1C/1 | 34C10-2 TRANSFER SWITCH #1 TO 34D9-6 REACTOR COOLING PMP 3CCP*P1C | 3330A | CCR | SWT | AB | | 0045 | |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1246 | M33CCP*TRS-P1C/2 | 34C10-2 TRANSFER SWITCH #2 TO 34D9-6 REACTOR COOLING PMP 3CCP*P1C | 3330A | CCR | SWT | AB | | 0045 | |
| 1247 | M33RCS*TK1 | PRESSURIZER | 3301 | RCS | TNK | CS | | 0024 | |
| 1248 | M33FWA*TK1 | DEMIN WATER STORAGE TANK | 3322 | AFW | TNK | YD | | 0024 | |
| 1249 | M33CHS*TK2 | VOLUME CONTROL TANK | 3304A | CVC | TNK | AB | | 0043 | |
| 1250 | M33CHS*TK5A | A BORIC ACID TANK | 3304C | CVC | TNK | AB | | 0043 | |
| 1251 | M33CHS*TK5B | B BORIC ACID TANK | 3304C | CVC | TNK | AB | | 0043 | |
| 1252 | M33SIL*TK1A | SAFETY INJECTION ACCUMULATOR TANK | 3307A | LPI | TNK | CS | | 0024 | |
| 1253 | M33SIL*TK1B | SAFETY INJECTION ACCUMULATOR TANK | 3307A | LPI | TNK | CS | | 0024 | |
| 1254 | M33SIL*TK1C | SAFETY INJECTION ACCUMULATOR TANK | 3307A | LPI | TNK | CS | | -024 | |
| 1255 | M33SIL*TK1D | SAFETY INJECTION ACCUMULATOR TANK | 3307A | LPI | TNK | CS | | -024 | |
| 1256 | M33HVC*TK1A | AIR STORAGE BOTTLE | 3314F | ACC | TNK | CB | | 0064 | |
| 1257 | M33HVC*TK1B | AIR STORAGE BOTTLE | 3314F | ACC | TNK | CB | | 0064 | |
| 1258 | M33HVC*TK1C | AIR STORAGE BOTTLE | 3314F | ACC | TNK | CB | | 0064 | |
| 1259 | M33HVC*TK1D | AIR STORAGE BOTTLE | 3314F | ACC | TNK | CB | | 0064 | |
| 1260 | M33HVC*TK1E | AIR STORAGE BOTTLE | 3314F | ACC | TNK | CB | | 0064 | |
| 1261 | M33HVC*TK1F | AIR STORAGE BOTTLE | 3314F | ACC | TNK | CB | | 0064 | |
| 1262 | M33HVC*TK1G | AIR STORAGE BOTTLE | 3314F | ACC | TNK | CB | | 0064 | |
| 1263 | M33HVC*TK1H | AIR STORAGE BOTTLE | 3314F | ACC | TNK | CB | | 0064 | |
| 1264 | M33HVC*TK1J | AIR STORAGE BOTTLE | 3314F | ACC | TNK | CB | | 0064 | |
| 1265 | M33HVK*TK1A | CONTROL BUILDING CHILLED WATER EXPANSION TANK | 3314F | CBW | TNK | CB | | 0064 | |
| 1266 | M33HVK*TK1B | CONTROL BUILDING CHILLED WATER EXPANSION TANK | 3314F | CBW | TNK | CB | | 0064 | |
| 1267 | M33CCP*TK1 | RPCCW SURGE TANK | 3330A | CCR | TNK | AB | | 0066 | |
| 1268 | M33CCE*TK1 | CHARGING PUMP COOLING SURGE TANK | 3330D | CCE | TNK | AB | | 0043 | |
| 1269 | M33EGA*TK1A | DIESEL START AIR RECIEVER TANK | 3346A | DSA | TNK | DG | D/G 'A' | 0024 | |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1270 | M33EGA*TK1B | DIESEL START AIR RECIEVER TANK | 3346A | DSA | TNK | DG | D/G 'B' | 0027 | |
| 1271 | M33EGA*TK2A | DIESEL START AIR RECIEVER TANK | 3346A | DSA | TNK | DG | D/G 'A' | 0024 | |
| 1272 | M33EGA*TK2B | DIESEL START AIR RECIEVER TANK | 3346A | DSA | TNK | DG | D/G 'B' | 0027 | |
| 1273 | M33EGA*TK3A | AIR TANK | 3346A | DSA | TNK | DG | D/G 'A' | 0024 | |
| 1274 | M33EGA*TK3B | AIR TANK | 3346A | DSA | TNK | DG | D/G 'B' | 0027 | |
| 1275 | M33EGS*TK1A | FRESH WATER EXPANSION TANK | 3346A | DGN | TNK | DG | D/G 'A' | 0034 | |
| 1276 | M33EGS*TK1B | FRESH WATER EXPANSION TANK | 3346A | DGN | TNK | DG | D/G 'B' | 0034 | |
| 1277 | M33EGF*TK1A | EMERGENCY GEN FUEL OIL STORAGE TK | 3346B | DFS | TNK | FV | FUEL VAULT 'A' | 0016 | 06 |
| 1278 | M33EGF*TK1B | EMERGENCY GEN FUEL OIL STORAGE TK | 3346B | DFS | TNK | FV | FUEL VAULT 'B' | 0024 | 06 |
| 1279 | M33EGF*TK2A | EMERGENCY GEN FUEL OIL DAY TANK | 3346B | DFS | TNK | DG | D/G 'A' | 0037 | 06 |
| 1280 | M33EGF*TK2B | EMERGENCY GEN FUEL OIL DAY TANK | 3346B | DFS | TNK | DG | D/G 'B' | 0037 | 06 |
| 1281 | M33RCS*AV8032 | REACTOR VESSEL FLANGE LEAKOFF ISOLATION | 3301 | RCS | VLV | CS | CUBICLE B | 0008 | 06 |
| 1282 | M33RCS*AV8036A | CHS FILL HEADER TO LOOP 1 | 3301 | RCS | VLV | CS | CUBE A, ATOP XOVER | 0012 | |
| 1283 | M33RCS*AV8036B | CHS FILL HEADER TO LOOP 2 | 3301 | RCS | VLV | CS | CUBE B, ATOP XOVER | 0012 | |
| 1284 | M33RCS*AV8036C | CHS FILL HEADER TO LOOP 3 | 3301 | RCS | VLV | CS | CUBE C, ATOP XOVER | 0012 | |
| 1285 | M33RCS*AV8036D | CHS FILL HEADER TO LOOP 4 | 3301 | RCS | VLV | CS | CUBE D,ABOVE XOVER | 0012 | |
| 1286 | M33RCS*AV8037A | REACTOR COOLANT LOOP 1 DRAIN ISOLATION | 3301 | RCS | VLV | CS | CUBE A BEHIND XOVER | 0005 | |
| 1287 | M33RCS*AV8037B | REACTOR COOLANT LOOP 2 DRAIN ISOLATION | 3301 | RCS | VLV | CS | CUBE B,BEHIND XOVER | 0005 | |
| 1288 | M33RCS*AV8037C | REACTOR COOLANT LOOP 3 DRAIN ISOLATION | 3301 | RCS | VLV | CS | CUBE C, BEHIND XOVER | 0005 | |
| 1289 | M33RCS*AV8037D | REACTOR COOLANT 4 DRAIN ISOLATION | 3301 | RCS | VLV | CS | CUBE D BEHIND XOVER | 0005 | |
| 1290 | M33RCS*AV8145 | PRESSURIZER AUXILIARY SPRAY(CVCS) | 3301 | RCS | VLV | CS | REGEN HX | -009 | |
| 1291 | M33RCS*AV8153 | EXCESS LETDOWN LINE ISOLATION | 3301 | RCS | VLV | CS | | 0007 | |
| 1292 | M33RCS*LCV459 | LETDOWN ISOLATION | 3301 | RCS | VLV | CS | VALVE MEZZ-BY STAIR | 0012 | |
| 1293 | M33RCS*LCV460 | LETDOWN ISOLATION | 3301 | RCS | VLV | CS | CUBICLE C | | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1294 | M33RCS*PCV455A | POWER OPERATED RELIEF VALVE | 3301 | RCS | VLV | CS | PRESSURIZER | 0076 | |
| 1295 | M33RCS*PCV455B | PRESSURIZER PRESSURE SPRAY VALVE | 3301 | RCS | VLV | CS | PRESSURIZER | 0053 | |
| 1296 | M33RCS*PCV455C | PRESSURIZER PRESSURE SPRAY VALVE | 3301 | RCS | VLV | CS | PRESSURIZER | 0053 | |
| 1297 | M33RCS*PCV456 | PRESSURIZER PRESSURE RELIEF | 3301 | RCS | VLV | CS | PRESSURIZER | 0075 | |
| 1298 | M33RCS*PORVSPARE | SPARE PRESSURE OPERATED RELIEF VALVE (PORV) | 3301 | RCS | VLV | WH | WAREHOUSE 5 | 0000 | 00 |
| 1299 | M33SIH*AV8882 | TEST LINE ISOL SI COLD LEG INJ | 3308 | HPI | VLV | CS | ANNULUS | 0003 | 08 |
| 1300 | M33SIH*AV8889A | TEST LINE ISOL SI TO HOT LEG 1 | 3308 | HPI | VLV | CS | | 0019 | 06 |
| 1301 | M33SIH*AV8889C | TEST LINE ISOL SI TO HOT LEG 3 | 3308 | HPI | VLV | CS | | 0018 | |
| 1302 | M33SIH*CV8871 | SI TEST HEADER CTMT INNER ISOL | 3308 | HPI | VLV | CS | ANNULUS | 0016 | |
| 1303 | M33SIH*CV8888 | SI ACCUM MASTER FILL ISOL | 3308 | HPI | VLV | AB | PENETRATION | 0004 | 06 |
| 1304 | M33SIH*CV8964 | SI TEST HEADER CTMT OUTER ISOL | 3308 | HPI | VLV | AB | PENETRATION MEZZ | 0017 | 06 |
| 1305 | M33FWA*HV32A | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | 3322 | AFW | VLV | ES | | 0021 | |
| 1306 | M33FWA*HV32B | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | 3322 | AFW | VLV | ES | | 0021 | |
| 1307 | M33FWA*HV32D | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | 3322 | AFW | VLV | ES | | 0024 | |
| 1308 | M33FWA*V135 | PIPING VENT VALVE FOR 3FWA*RV45 | 3322 | AFW | VLV | | | 0000 | |
| 1309 | M3GOV-SOL-3FWA*T1 | TDAFP GOVERNOR SHUTDOWN AIR BLEED SOLENOID VALVE | 3322 | AFW | VLV | | | 0000 | 00 |
| 1310 | M33SWP*HV39A | AIR SUPPLY TO SWP*AOV39A (3EGS*E2A) EMERG. DIESEL COOLER OUTLET | 3326 | SWS | VLV | DG | | | |
| 1311 | M33SWP*PV112A1 | 3HVQ*ACU 1A FREON PRESSURE CONTROL VALVE | 3326 | SWS | VLV | ES | | 0036 | |
| 1312 | M33SWP*PV112A2 | 3HVQ*ACU 1A FREON PRESSURE CONTROL VALVE | 3326 | SWS | VLV | ES | | 0036 | |
| 1313 | M33SWP*PV112B1 | 3HVQ*ACU 1B FREON PRESSURE CONTROL VALVE | 3326 | SWS | VLV | ES | | 0036 | |
| 1314 | M33SWP*PV112B2 | 3HVQ*ACU 1B FREON PRESSURE CONTROL VALVE | 3326 | SWS | VLV | ES | | 0036 | |
| 1315 | M33SWP*PV113A1 | 3HVQ*ACU 2A FREON PRESSURE CONTROL VALVE | 3326 | SWS | VLV | ES | | 0036 | |
| 1316 | M33SWP*PV113A2 | 3HVQ*ACU 2A FREON PRESSURE CONTROL VALVE | 3326 | SWS | VLV | ES | | 0036 | |
| 1317 | M33SWP*PV113B1 | 3HVQ*ACU 2B FREON PRESSURE CONTROL VALVE | 3326 | SWS | VLV | ES | | 0036 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1318 | M33SWP*PV113B2 | 3HVQ*ACU 2B FREON PRESSURE CONTROL VALVE | 3326 | SWS | VLV | ES | | 0036 | |
| 1319 | M33SWP*PV98A | A SERVICE WATER PUMP LUBE WATER PRESSURE CONTROL VALVE | 3326 | SWS | VLV | CW | | 0022 | |
| 1320 | M33SWP*PV98B | B SERVICE WATER PUMP LUBE WATER PRESSURE CONTROL VALVE | 3326 | SWS | VLV | CW | | 0022 | |
| 1321 | M33SWP*PV98C | C SERVICE WATER PUMP LUBE WATER PRESSURE CONTROL VALVE | 3326 | SWS | VLV | CW | | 0022 | |
| 1322 | M33SWP*PV98D | D SERVICE WATER LUBE WATER PRESSURE CONTROL VALVE | 3326 | SWS | VLV | CW | | 0022 | |
| 1323 | M33CHS*AV8101 | VCT VENT ISOLATION | 3304A | CVC | VLV | AB | BORIC ACID PP RM 2A | 0043 | 06 |
| 1324 | M33CHS*AV8143 | EXCESS LETDOWN DIVERSION | 3304A | CVC | VLV | CS | EXCESS HEAT EX ROOM | 0013 | 06 |
| 1325 | M33CHS*AV8146 | CHARGING LOOP 1 ISOLATION | 3304A | CVC | VLV | CS | REGEN HEAT EXCHANGE | 0008 | |
| 1326 | M33CHS*AV8147 | CHARGING LOOP 4 ISOLATION | 3304A | CVC | VLV | CS | REGEN HEAT EXCHANGE | 0008 | |
| 1327 | M33CHS*AV8149A | A LETDOWN ORIFICE ISOLATION | 3304A | CVC | VLV | CS | REGEN HEAT EXCH RM | 0003 | 08 |
| 1328 | M33CHS*AV8149B | B LETDOWN ORIFICE ISOLATION | 3304A | CVC | VLV | CS | REGEN HX UPPER LEVEL | 0001 | |
| 1329 | M33CHS*AV8149C | C LETDOWN ORIFICE ISOLATION | 3304A | CVC | VLV | CS | REGEN HEAT EXCH ROOM | 0003 | 08 |
| 1330 | M33CHS*CV8160 | LETDOWN HEADER CTMT ISOLATION | 3304A | CVC | VLV | CS | INSIDE S/G CUB. "C" | 0004 | |
| 1331 | M33CHS*RV8393 | EQUIP MFR SUPPLY | 3304A | CVC | VLV | CS | | 0000 | 00 |
| 1332 | M33CHS*RV8511A | "A" CHARGING PUMP OIL PUMP DISCHARGE RELEIF | 3304A | CVC | VLV | AB | "A" CHG PP CUBICLE | 0024 | 06 |
| 1333 | M33CHS*RV8511B | "B" CHARGING PUMP LUBE OIL PUMP RELIEF | 3304A | CVC | VLV | AB | "C" CHG PP CUBICLE | 0024 | 06 |
| 1334 | M33CHS*RV8511C | VENDOR SUPPLIED | 3304A | CVC | VLV | AB | | 0000 | 00 |
| 1335 | M33CHS*TCV129 | DEMIN HIGH TEMPERATURE BYPASS | 3304A | CVC | VLV | AB | LTDN MOD HEAT EXCH | 0004 | 06 |
| 1336 | M33CHS*FCV110B | BLENDED MAKEUP TO VCT OUTLET | 3304C | CVC | VLV | AB | BORIC ACID PUMP A | 0043 | 06 |
| 1337 | M33CHS*FCV111B | MAKEUP TO VCT ISOLATION | 3304C | CVC | VLV | AB | BORIC ACID PUMP A | 0043 | 06 |
| 1338 | M33SIL*AV8872A | LOW PRESS SI TO HIGH PRESS SI | 3307A | LPI | VLV | CS | ABOVE AIR CLNG ASSC | -007 | |
| 1339 | M33SIL*AV8872B | LOW PRESS SI TO HIGH PRESS SI | 3307A | LPI | VLV | CS | ABOVE AIR CLNG ASS B | | |
| 1340 | M33SIL*AV8872C | LOW PRESS SI TO HIGH PRESS SI | 3307A | LPI | VLV | CS | ABOVE AIR CLNG ASS A | -007 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1341 | M33SIL*AV8872D | LOW PRESS SI TO HIGH PRESS SI | 3307A | LPI | VLV | CS | ABOVE AIR FLTR FAN A | -007 | |
| 1342 | M33SIL*AV8878A | SAFETY INJECT ACCUMULATE TANK 1 FILL FROM HIGH PRESS SAFETY INJ | 3307A | LPI | VLV | CS | ACCUM A | -024 | |
| 1343 | M33SIL*AV8878B | SAFETY INJECT ACCUMULATE TANK 2 FILL FROM HIGH PRESS SAFETY INJ | 3307A | LPI | VLV | CS | ACCUM B | -024 | 06 |
| 1344 | M33SIL*AV8878C | SAFETY INJECT ACCUMULATE TANK 3 FILL FROM HIGH PRESS SAFETY INJ | 3307A | LPI | VLV | CS | ACCUM C | -021 | |
| 1345 | M33SIL*AV8878D | SAFETY INJECT ACCUMULATE TANK 4 FILL FROM HIGH PRESS SAFETY INJ | 3307A | LPI | VLV | CS | ACCUM B | | |
| 1346 | M33SIL*CV8825 | TEST ISOL LPSI TO 2/4 HOT LEGS | 3307A | LPI | VLV | CS | ANNULUS | 0003 | 08 |
| 1347 | M33SIL*CV8880 | SI ACCUMULATOR NITROGEN SUPPLY ISOL | 3307A | LPI | VLV | AB | | 0014 | |
| 1348 | M33SIL*CV8890A | TEST ISOL LPSI TO 1/2 COLD LEGS | 3307A | LPI | VLV | CS | ANNULUS | 0003 | 08 |
| 1349 | M33SIL*CV8890B | TEST ISOL LPSI TO 3/4 COLD LEGS | 3307A | LPI | VLV | CS | ANNULUS | 0003 | 08 |
| 1350 | M33SIL*CV8968 | SI ACCUMULATOR NITROGEN SUPPLY ISOL | 3307A | LPI | VLV | CS | ANNULUS-CONTAINMENT | 0021 | 06 |
| 1351 | M33HVR*PCV19A | HI RANGE RAD MONITOR VALVE | 3314A | RBV | VLV | AB | | | |
| 1352 | M33HVQ*PCV1193A | HEAT EXCHANGER INLET PRESSURE CONTROL VALVE | 3314D | ESG | VLV | ES | | | |
| 1353 | M33HVQ*PCV1193B | HEAT EXCHANGER INLET PRESSURE CONTROL VALVE | 3314D | ESG | VLV | ES | | | |
| 1354 | M33HVQ*PCV1293A | HEAT EXCHANGER INLET PRESSURE CONTROL VALVE | 3314D | ESG | VLV | ES | | | |
| 1355 | M33HVQ*PCV1293B | HEAT EXCHANGER INLET PRESSURE CONTROL VALVE | 3314D | ESG | VLV | ES | | | |
| 1356 | M33HVQ*TCV1051A | HEAT EXCHANGER INLET TEMPERATURE CONTROL VALVE | 3314D | ESG | VLV | ES | | 0000 | 00 |
| 1357 | M33HVQ*TCV1051B | HEAT EXCHANGER INLET TEMPERATURE CONTROL VALVE | 3314D | ESG | VLV | ES | | 0000 | 00 |
| 1358 | M33HVQ*TCV1052A | HEAT EXCHANGER INLET TEMPERATURE CONTROL VALVE | 3314D | ESG | VLV | ES | | 0000 | 00 |
| 1359 | M33HVQ*TCV1052B | HEAT EXCHANGER INLET TEMPERATURE CONTROL VALVE | 3314D | ESG | VLV | ES | | 0000 | 00 |
| 1360 | M33HVQ*TCV1061A | HEAT EXCHANGER INLET TEMPERATURE CONTROL VALVE | 3314D | ESG | VLV | ES | | 0000 | 00 |
| 1361 | M33HVQ*TCV1061B | HEAT EXCHANGER INLET TEMPERATURE CONTROL VALVE | 3314D | ESG | VLV | ES | | 0000 | 00 |
| 1362 | M33HVQ*TCV1062A | HEAT EXCHANGER INLET TEMPERTURE CONTROL VALVE | 3314D | ESG | VLV | ES | | 0000 | 00 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1363 | M33HVQ*TCV1062B | HEAT EXCHANGER INLET TEMPERTURE CONTROL VALVE | 3314D | ESG | VLV | ES | | 0000 | 00 |
| 1364 | M33HVC*PCV68A | AIR STORAGE TANK OUTLET PRESSURE REDUCER | 3314F | ACC | VLV | CB | | 0080 | |
| 1365 | M33HVC*PCV68B | AIR STORAGE TANK OUTLET PRESSURE REDUCER | 3314F | ACC | VLV | CB | | 0080 | |
| 1366 | M33HVK*LCV1006 | (A) CONTROL BUILDING CHILLER;LOW SIDE REFRIGERANT FLOAT VALVE | 3314F | CBW | VLV | CB | | 0000 | 00 |
| 1367 | M33HVK*LCV1011 | A-CONTROL BUILDING CHILLER;CONDENSER REFRIGERANT LEVEL FLOAT VLV | 3314F | CBW | VLV | CB | | 0000 | 00 |
| 1368 | M33HVK*LCV1031 | (B) CONTROL BUILDING CHILLER;LOW SIDE REFRIGERANT FLOAT VALVE | 3314F | CBW | VLV | CB | | 0000 | 00 |
| 1369 | M33HVK*LCV1036 | B-CONTROL BUILDING CHILLER;CONDENSER REFRIGERANT LEVEL FLOAT VLV | 3314F | CBW | VLV | CB | | 0000 | 00 |
| 1370 | M33HVK*PCV1000 | A-CB CHILLER COMPONENT MOTOR COOLING LINE PRESSURE CONT VALVE | 3314F | CBW | VLV | CB | | 0000 | 00 |
| 1371 | M33HVK*PCV1004 | (A) CONTROL BUILDING CHILLER;ECONOMIZER GAS VALVE | 3314F | CBW | VLV | CB | | 0000 | 00 |
| 1372 | M33HVK*PCV1025 | (B) CB CHILLER;COMP MOTOR COOLING LINE PRESSURE CONT VALVE | 3314F | CBW | VLV | CB | | 0000 | 00 |
| 1373 | M33HVK*PCV1029 | (B) CONTROL BUILDING CHILLER;ECONOMIZER GAS VALVE | 3314F | CBW | VLV | CB | | 0000 | 00 |
| 1374 | M33HVK*PDV32A | CHLD WTR SPLY & RTRN DIFF PRS (TRAIN A) IND & CNTRL MOD VLV CNT | 3314F | CBW | VLV | CB | | 0081 | |
| 1375 | M33HVK*PDV32B | CHLL WTR SPLY & RTN DIFF PRS (TRAIN B) IND & CNTRL MOD VLV CNTRL | 3314F | CBW | VLV | CB | | 0081 | |
| 1376 | M33HVK*RV152A | (A) CHILLER, COOLER REFRIGERANT RELIEF VALVE (*V1013A) | 3314F | CBW | VLV | CB | | 0069 | 09 |
| 1377 | M33HVK*RV152B | (B) CHILLER, COOLER REFRIGERANT RELIEF VALVE (*V1013B) | 3314F | CBW | VLV | CB | | 0069 | 09 |
| 1378 | M33HVK*RV153A | (A) CHILLER, COOLER REFRIGERANT RELIEF VALVE (*V1014A) | 3314F | CBW | VLV | CB | | 0069 | 09 |
| 1379 | M33HVK*RV153B | (B) CHILLER, COOLER REFRIGERANT RELIEF VALVE (*V1014B) | 3314F | CBW | VLV | CB | | 0069 | 09 |
| 1380 | M33HVK*TV39A | 3HVC*ACU2A CHILLED WATER RETURN TEMPERATURE CONTROL VALVE | 3314F | CBW | VLV | CB | | 0064 | 06 |
| 1381 | M33HVK*TV39B | 3HVC*ACU2B CHILLED WATER RETURN TEMPERATURE CONTROL VALVE | 3314F | CBW | VLV | CB | | 0064 | 06 |
| 1382 | M33HVK*TV41A | 3HVC-ACU1 CHILLED WATER COIL | 3314F | CBW | VLV | CB | | 0064 | |
| 1383 | M33HVK*TV41B | CONTROL ROOM AIR CONDITIONING UNIT 3HVC*ACU1B TEMP CONTROL | 3314F | CBW | VLV | CB | | 0064 | |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1384 | M33HVK*TV76A | ACU#4 CHILLED WATER TEMPERATURE CONTROL | 3314F | CBW | VLV | CB | | 0066 | |
| 1385 | M33HVK*TV76B | ACU#4 CHILLED WATER TEMPERATURE CONTROL | 3314F | CBW | VLV | CB | | 0066 | |
| 1386 | M33HVK*TV77A | ACU#3 CHILLED WATER TEMPERATURE CONTROL | 3314F | CBW | VLV | CB | | 0066 | |
| 1387 | M33HVK*TV77B | ACU#3 CHILLED WATER TEMPERATURE CONTROL | 3314F | CBW | VLV | CB | | 0066 | |
| 1388 | M33MSS*CTV27A | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | VLV | MS | | 0066 | |
| 1389 | M33MSS*CTV27B | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | VLV | MS | | 0066 | |
| 1390 | M33MSS*CTV27C | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | VLV | MS | | 0066 | |
| 1391 | M33MSS*CTV27D | MAIN STEAM ISOLATION TRIP VALVE | 3316A | STG | VLV | MS | | 0066 | |
| 1392 | M33MSS*MCV5 | 3FWA*T1 SGAFW TURBINE CONTROL VALVE | 3316A | STG | VLV | ES | TERRY TURBINE | 0024 | |
| 1393 | M33MSS*MSV5 | TURBINE DRIVEN SGAFW PUMP STEAM ISOLATION | 3316A | STG | VLV | ES | TERRY TURBINE | 0024 | |
| 1394 | M33MSS*PV20A | MAIN STEAM PRESSURE RELIEVING VALVE | 3316A | STG | VLV | MS | S/E CUBE | 0069 | |
| 1395 | M33MSS*PV20B | MAIN STEAM PRESSURE RELIEVING CONTROL | 3316A | STG | VLV | MS | LOCATED ON C MS LINE | 0069 | |
| 1396 | M33MSS*PV20D | MAIN STEAM PRESS RELIEVING CONTROL | 3316A | STG | VLV | MS | LOCATED ON A MS LINE | 0068 | |
| 1397 | M33CCP*FV66A | (A) RHR HEAT EXCHANGE COOLING OUTLET ISOLATION | 3330A | CCR | VLV | ES | PIPE TUNNEL 4'6" | 0010 | |
| 1398 | M33CCP*FV66B | B RHR HX CCP OUTLET CV | 3330A | CCR | VLV | ES | PIPE TUNNEL 4'6" | 0010 | |
| 1399 | M33CCP*LV61 | SI PUMP COOLING SURGE TANK FILL | 3330A | CCR | VLV | ES | SIS PUMP SURGE TK | 0039 | 06 |
| 1400 | M33CCP*LV91 | CHARGING PUMP COOLING SURGE TANK FILL | 3330A | CCR | VLV | AB | CHG PMP COL SURGE TK | 0049 | |
| 1401 | M33EGA*ASV1A | RIGHT BANK AIR START CONTROL VALVE | 3346A | DSA | VLV | DG | A TRAIN | 0027 | |
| 1402 | M33EGA*ASV1B | RIGHT BANK AIR START CONTROL VALVE | 3346A | DSA | VLV | DG | B TRAIN | 0027 | |
| 1403 | M33EGA*ASV2A | LEFT BANK AIR START CONTROL VALVE | 3346A | DSA | VLV | DG | A TRAIN | 0027 | |
| 1404 | M33EGA*ASV2B | LEFT BANK AIR START CONTROL VALVE | 3346A | DSA | VLV | DG | B TRAIN | 0027 | |
| 1405 | M33EGA*EFV35A1 | "A" DIESEL COMP INST EXCESS AIR FLOW VALVE - SPRING LOADED (V986) | 3346A | DSA | VLV | DG | D/G 'A' | 0027 | |
| 1406 | M33EGA*EFV35A2 | "A" DIESEL COMP INST EXCESS AIR FLOW VALVE - SPRING LOADED (V985) | 3346A | DSA | VLV | DG | NEXT TO RECIEVER | 0027 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1407 | M33EGA*EFV35B1 | "B" DIESEL COMP INST EXCESS AIR FLOW VALVE - SPRING LOADED (V984) | 3346A | DSA | VLV | DG | D/G 'B' | 0027 | |
| 1408 | M33EGA*EFV35B2 | "B" DIESEL COMP INST EXCESS AIR FLOW VALVE - SPRING LOADED (V983) | 3346A | DSA | VLV | DG | NEXT TO COMPRESSOR | 0027 | |
| 1409 | M33EGO*PCV22A | ROCKER ARM LUBE OIL HEADER PCV | 3346A | DLS | VLV | DG | D/G 'A' | 0025 | |
| 1410 | M33EGO*PCV22B | ROCKER ARM LUBE OIL HEADER PCV | 3346A | DLS | VLV | DG | D/G 'B' | 0025 | |
| 1411 | M33EGO*TCV20A | LUBE OIL HEAT EXCHANGER TEMPERATURE CONTROL | 3346A | DLS | VLV | DG | D/G 'A' | 0025 | |
| 1412 | M33EGO*TCV20B | LUBE OIL HEAT EXCHANGER TEMPERATURE CONTROL | 3346A | DLS | VLV | DG | D/G 'B' | 0025 | |
| 1413 | M33EGS*TCV44A | ENGINE AIR COOLER WATER HEAT EXCHANGER TCV | 3346A | DGN | VLV | DG | D/G 'A' | 0025 | |
| 1414 | M33EGS*TCV44B | ENGINE AIR COOLER WATER HEAT EXCHANGER TCV | 3346A | DGN | VLV | DG | D/G 'B' | 0025 | |
| 1415 | M33EGS*TCV50A | "A" DIESEL JACKET WATER COOLER 3-WAY TEMPERATURE CONTROL VALVE | 3346A | DGN | VLV | DG | "A" DIESEL ROOM | 0030 | 06 |
| 1416 | M33EGS*TCV50B | "B" DIESEL JACKET WATER COOLER 3-WAY TEMPERATURE CONTROL VALVE | 3346A | DGN | VLV | DG | "B" DIESEL ROOM | 0030 | 06 |
| 1417 | M33HVR*XRC28A | CONSTANT VOLTAGE TRANSFORMER FOR DAMPER ACUTATOR (MOD28A) | 3314A | RBV | XMF | AB | | 0033 | |
| 1418 | M33HVR*XRC28B | CONSTANT VOLTAGE TRANSFORMER FOR DAMPER ACUTATOR (MOD28B) | 3314A | RBV | XMF | AB | | 0035 | |
| 1419 | M33HVR*XRC72A | CONSTANT VOLTAGE TRANSFORMER FOR DAMPER ACUTATOR (MOD72A) | 3314C | RBV | XMF | AB | | 0033 | |
| 1420 | M33HVQ*ACUS1A-T1 | CONTROL CIRCUIT SUPPLY TRANSFORMER | 3314D | ESG | XMF | | | 0000 | 00 |
| 1421 | M33HVQ*ACUS1A-T2 | HEATER CONTROL CIRCUIT SUPPLY TRANSFORMER | 3314D | ESG | XMF | | | 0000 | 00 |
| 1422 | M33HVQ*ACUS1B-T1 | CONTROL CIRCUIT SUPPLY TRANSFORMER | 3314D | ESG | XMF | | | 0000 | 00 |
| 1423 | M33HVQ*ACUS1B-T2 | HEATER CONTROL CIRCUIT SUPPLY TRANSFORMER | 3314D | ESG | XMF | | | 0000 | 00 |
| 1424 | M33HVQ*ACUS2A-T1 | CONTROL CIRCUIT SUPPLY TRANSFORMER | 3314D | ESG | XMF | | | 0000 | 00 |
| 1425 | M33HVQ*ACUS2A-T2 | HEATER CONTROL CIRCUIT SUPPLY TRANSFORMER | 3314D | ESG | XMF | | | 0000 | 00 |
| 1426 | M33HVQ*ACUS2B-T1 | CONTROL CIRCUIT SUPPLY TRANSFORMER | 3314D | ESG | XMF | | | 0000 | 00 |
| 1427 | M33HVQ*ACUS2B-T2 | HEATER CONTROL CIRCUIT SUPPLY TRANSFORMER | 3314D | ESG | XMF | | | 0000 | 00 |
| 1428 | M332R-1H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32R-1H ASSEMBLY | 3344A | ES0 | XMF | | | | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1429 | M332R-2H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32R-2H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1430 | M332S-1H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32S-1H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1431 | M332S-2H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32S-2H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1432 | M332T-1H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32T-1H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1433 | M332T-2H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32T-2H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1434 | M332U-1H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32U-1H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1435 | M332U-2H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32U-1H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1436 | M332V-1H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32V-1H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1437 | M332V-2H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32V-2H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1438 | M332W-1H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32W-1H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1439 | M332W-2H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32W-2H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1440 | M332X-1H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32X-1H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1441 | M332X-2H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32X-2H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1442 | M332Y-1H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32Y-1H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1443 | M332Y-2H | 480V/120V VOLTAGE MONITORING TRANSFORMER 32Y-2H ASSEMBLY | 3344A | ES0 | XMF | | | | |
| 1444 | M33EJS*X-1A | 1000 KVA TRANSFORMER | 3344A | ELC | XMF | CB | | 0004 | |
| 1445 | M33EJS*X-1B | 1000 KVA TRANSFORMER | 3344A | ELC | XMF | CB | | 0004 | |
| 1446 | M33EJS*X-2A | 1000 KVA TRANSFORMER | 3344A | ELC | XMF | CP | | | |
| 1447 | M33EJS*X-2B | 1000 KVA TRANSFORMER | 3344A | ELC | XMF | AB | | | |
| 1448 | M33EJS*X-3A | 1000 KVA TRANSFORMER | 3344A | ELC | XMF | AB | | 0024 | |
| 1449 | M33EJS*X-3B | 1000 KVA TRANSFORMER | 3344A | ELC | XMF | AB | | 0024 | |
| 1450 | M33EJS*X-4A | 1000 KVA TRANSFORMER | 3344A | ELC | XMF | AB | | 0024 | |
| 1451 | M33EJS*X-4B | 4160/480 TRANSFORMER (1000KVA) FOR 32X BUS | 3344A | ELC | XMF | AB | WEST MCC ROD CONTROL | 0024 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1452 | M33SCV*XD10O | AC DIST PANEL TRANSFORMER ENGINEERED SAFETY FEATURE BUILDING | 3345A | EVI | XMF | ES | | 0036 | |
| 1453 | M33SCV*XD10P | 240/120V 1PH STEP-DOWN TRANSFORMER PU | 3345A | EVI | XMF | ES | | 0036 | |
| 1454 | M33SCV*XD11P | AC DIST PANEL TRANSFORMER ENGINEERED SAFETY FEATURE BUILDING | 3345A | EVI | XMF | ES | | 0036 | |
| 1455 | M33SCV*XD1O | 240/120V 1PH STEP-DOWN XFMR OR | 3345A | EVI | XMF | CB | | 0004 | |
| 1456 | M33SCV*XD1P | AC DIST PANEL TRANSFORMER CONTROL | 3345A | EVI | XMF | CB | | 0004 | |
| 1457 | M33SCV*XD24O | AC DIST PANEL TRANSFORMER-CWPH | 3345A | EVI | XMF | CW | | 0014 | |
| 1458 | M33SCV*XD24P | AC DIST PANEL TRANSFORMER-CWPH | 3345A | EVI | XMF | CW | | 0014 | |
| 1459 | M33SCV*XD25O | AC DIST PANEL TRANSFORMER-EGE | 3345A | EVI | XMF | DG | | 0024 | |
| 1460 | M33SCV*XD25P | AC DIST PANEL TRANSFORMER-EGE | 3345A | EVI | XMF | DG | | 0024 | |
| 1461 | M33SCV*XD5O | 240/120V 1PH STEP-DOWN TRANSFORMER OR | 3345A | EVI | XMF | AB | | 0024 | |
| 1462 | M33SCV*XD5P | AC DIST PANEL TRANSFORMER AUXILIARY | 3345A | EVI | XMF | AB | | 0024 | |
| 1463 | M33SCV*XD9O | AC DIST PANEL TRANSFORMER AUXILIARY | 3345A | EVI | XMF | AB | | 0024 | |
| 1464 | M33SCV*XD9P | AC DIST PANEL TRANSFORMER AUXILIARY | 3345A | EVI | XMF | AB | | 0043 | |
| 1465 | M33SCV*XDH2A | AC DIST PANEL TRANSFORMER CONTROL | 3345A | EVI | XMF | CB | | 0004 | |
| 1466 | M33SCV*XDH2B | AC DIST PANEL TRANSFORMER CONTROL | 3345A | EVI | XMF | CB | | 0004 | |
| 1467 | M33VBA*XD-1A | VITAL BUS ISOLATION TRANSFORMER | 3345B | ELC | XMF | CB | | 0004 | |
| 1468 | M33VBA*XD-2A | VITAL BUS ISOLATION TRANSFORMER | 3345B | ELC | XMF | CB | | 0004 | |
| 1469 | M33VBA*XD-3A | VITAL BUS ISOLATION TRANSFORMER | 3345B | ELC | XMF | CB | IN BACK OF INV-3 | 0004 | |
| 1470 | M33VBA*XD-4A | VITAL BUS ISOLATION XFMR | 3345B | ELC | XMF | CB | | 0004 | |
| 1471 | M33VBA*XRC-1 | STEP DOWN & REGULATING TRANSFORMER 3VBA*XRC-1 | 3345B | EVI | XMF | CB | ABOVE BAT PM 301A-1 | 0014 | |
| 1472 | M33VBA*XRC-2 | VIAC-2 ALTERNATE SOURCE TRANSFORMER | 3345B | ELC | XMF | CB | WEST SWITCHGEAR ROOM | 0004 | |
| 1473 | M33VBA*XRC-3 | STEP DOWN & REGULATING TRANSFORMER 3VBA*XRC-3 | 3345B | ELC | XMF | CB | EAST SWITCHGEAR | 0004 | |
| 1474 | M33VBA*XRC-4 | VIAC-4 ALTERNATE SOURCE TRANSFORMER | 3345B | ELC | XMF | CB | WEST SWITCH GEAR | 0004 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1475 | M33LAC*EXL1O | 3LAC*PNL3C1O LIGHTING TRANSFORMER | 3720B | LTG | XMF | CB | | 0004 | |
| 1476 | M33LAC*EXL2P | 3LAC*PNL3C2P LIGHTING TRANSFORMER | 3720B | LTG | XMF | CB | | 0004 | |
| 1477 | M33LAC*EXL3O | 3LAC*PNL3C3O LIGHTING TRANSFORMER | 3720B | LTG | XMF | CB | | 0004 | |
| 1478 | M33LAC*EXL4P | 3LAC*PNL3C4P LIGHTING TRANSFORMER | 3720B | LTG | XMF | CB | WEST SW/GR,S/W WALL | 0004 | |
| 1479 | M33LAD*EXL1O | LIGHTING TRANSFORMER 3LAD*EXL1O (PANEL 3LAD*PNL3DG1O) | 3720B | LTG | XMF | DG | | 0051 | |
| 1480 | M33LAD*EXL2P | 3LAD*PNL3DG2P LIGHTING TRANSFORMER | 3720B | LTG | XMF | DG | SOUTH MUFFLER ENCL | 0052 | |
| 1481 | M33LAK*EXL1O | 3LAK*PNL3ESF1O LIGHTING TRANSFORMER | 3720B | LTG | XMF | ES | RSS CUB, SOUTH WALL | 0004 | |
| 1482 | M33LAK*EXL2P | 3LAK*3ESF2P LIGHTING TRANSFORMER | 3720B | LTG | XMF | ES | ES RSS CUBICLE B&D | 0004 | 06 |
| 1483 | M33LAP*EXL1O | LIGHTING TRANSFORMER FOR PANEL 3LAP*PNL3P1O | 3720B | LTG | XMF | AB | EAST BUSS ROOM | 0024 | |
| 1484 | M33LAP*EXL2P | 3LAP*PNL3P2P LIGHTING TRANSFORMER | 3720B | LTG | XMF | AB | | 0024 | |
| 1485 | M33LAR*EXL1O | LIGHTING TRANSFORMER 3LAR*EXL1O (PANEL 3LAR*PNL3RC1O) | 3720B | LTG | XMF | AB | EAST-ROD DRIVE | 0024 | |
| 1486 | M33LAR*EXL2P | 3LAR*PNL3RC2P LIGHTING TRANSFORMER | 3720B | LTG | XMF | AB | | 0024 | |
| 1487 | M33LAT*EXL1O | 3LAT*PNL3T1O LIGHTING TRANSFORMER | 3720B | LTG | XMF | CB | EAST SWGR ROOM | 0004 | |
| 1488 | M33LAT*EXL2P | 3LAT*PNL3T2P LIGHTING TRANSFORMER | 3720B | LTG | XMF | CB | | 0004 | |
| 1489 | M33LAW*EXL1O | 3LAW-PNL3CW1O LIGHTING TRANSFORMER | 3720B | LTG | XMF | CW | | 0014 | |
| 1490 | M33LAW*EXL2P | 3LAW-PNL3CW2P LIGHTING TRANSFORMER | 3720B | LTG | XMF | CW | | 0014 | |
| 1491 | M33RCS*FT414 | REACTOR COOLANT LOOP 1 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 12 CRANE WALL | 0004 | |
| 1492 | M33RCS*FT415 | REACTOR COOLANT LOOP 1 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 12 CRANE WALL | 0004 | |
| 1493 | M33RCS*FT416 | REACTOR COOLANT LOOP 1 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 12 CRANE WALL | 0004 | |
| 1494 | M33RCS*FT424 | REACTOR COOLANT LOOP 2 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 18 CRANE WALL | 0004 | |
| 1495 | M33RCS*FT425 | REACTOR COOLANT LOOP 2 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 18 CRANE WALL | 0004 | |
| 1496 | M33RCS*FT426 | REACTOR COOLANT LOOP 2 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 18 CRANE WALL | 0004 | |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1497 | M33RCS*FT434 | REACTOR COOLANT LOOP 3 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 1 CRANE WALL | 0004 | |
| 1498 | M33RCS*FT435 | REACTOR COOLANT LOOP 3 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 1 CRANE WALL | 0004 | |
| 1499 | M33RCS*FT436 | REACTOR COOLANT LOOP 3 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 1 CRANE WALL | 0004 | |
| 1500 | M33RCS*FT444 | REACTOR COOLANT LOOP 4 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 9 CRANE WALL | 0004 | |
| 1501 | M33RCS*FT445 | REACTOR COOLANT LOOP 4 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 9 CRANE WALL | 0004 | |
| 1502 | M33RCS*FT446 | REACTOR COOLANT LOOP 4 FLOW TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 9 CRANE WALL | 0004 | |
| 1503 | M33RCS*LT459 | PRESSURIZER LEVEL (CHANNEL 1) LEVEL TRANSMITTER | 3301 | RCS | XMT | CS | CONTAINMENT | 0003 | 08 |
| 1504 | M33RCS*LT460 | PRESSURIZER LEVEL (CHANNEL 2) LEVEL TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 14 CRANE WALL | 0008 | 02 |
| 1505 | M33RCS*LT461 | PRESSURIZER LEVEL TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 14 CRANE WALL | 0008 | 02 |
| 1506 | M33RCS*PT403 | REACTOR COOLANT SYSTEM WIDE RANGE PRESSURE XMTR | 3301 | RCS | XMT | CS | COLUMN 10 CRANE WALL | 0003 | 08 |
| 1507 | M33RCS*PT403A | REACTOR COOLANT SYSTEM WIDE RANGE PRESSURE XMTR | 3301 | RCS | XMT | CS | COLUMN 10 CRANE WALL | 0003 | 08 |
| 1508 | M33RCS*PT405 | RCS WIDE RANGE PRESS XMITTER (IN FRONT ELEVATOR) | 3301 | RCS | XMT | CS | OTR ANNULUS FRNT ELV | 0003 | 08 |
| 1509 | M33RCS*PT405A | REACTOR COOLANT SYSTEM WIDE RANGE PRESSURE TRANSMITTER | 3301 | RCS | XMT | CS | | 0003 | 08 |
| 1510 | M33RCS*PT455 | PRESSURIZER 3RCS*TK1 PRESSURE XMTR (CHANNEL 1) | 3301 | RCS | XMT | CS | CONTAINMENT | 0003 | 02 |
| 1511 | M33RCS*PT456 | PRESSURIZER 3RCS*TK1 PRESSURE XMTR (CHANNEL 2) | 3301 | RCS | XMT | CS | | 0008 | 02 |
| 1512 | M33RCS*PT457 | PRESSURIZER 3RCS*TK1 PRESSURE TRANSMITTER (CHANNEL 3) | 3301 | RCS | XMT | CS | COLUMN 16 CRANE WALL | 0004 | |
| 1513 | M33RCS*PT458 | PRESSURIZER 3RCS*TK1 PRESSURE TRANSMITTER (CHANNEL 4) | 3301 | RCS | XMT | CS | COLUMN 15 CRANE WALL | 0004 | |
| 1514 | M33RCS*PT49 | R/C LOOP 1 WIDE RANGE PRESSURE TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 10 CRANE WALL | 0003 | 08 |
| 1515 | M33RCS*PT50 | R/C LOOP 4 WIDE RANGE PRESSURE TRANSMITTER | 3301 | RCS | XMT | CS | COLUMN 9 CRANE WALL | 0003 | 08 |
| 1516 | M33RCS*ZT442A | REACTOR VESSEL 3RCS*RV1 VENT VALVE 3RCS*HVC442B POSITION XMTR | 3301 | RCS | XMT | AB | | 0024 | |
| 1517 | M33RCS*ZT442B | REACTOR VESSEL 3RCS*RV1 VENT VALVE 3RCS*HCV442B POSITION XMTR | 3301 | RCS | XMT | CS | | 0024 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1518 | M33RCS-LT459C | PRESSURIZER LEVEL TRANSMITTER | 3301 | RCS | XMT | CS | | 0003 | 08 |
| 1519 | M33RCS-LT462 | PRESSURIZER LEVEL COLD INDICATION LEVEL TRANSMITTER | 3301 | RCS | XMT | CS | | 0003 | 08 |
| 1520 | M33RCS-LT51A | CONTROL ROOM SHUTDOWN LEVEL IND. & RHR PERFORMANCE MONITORING. | 3301 | RCS | XMT | CS | OUTSIDE CRANE WALL | 0003 | 06 |
| 1521 | M33RCS-LT51B | CONTROL ROOM SHUTDOWN LEVEL IND. & RHR PERFORMANCE MONITORING. | 3301 | RCS | XMT | CS | OUTSIDE CRANE WALL | 0003 | 06 |
| 1522 | M33RCS-PT405B | RCS WIDE RNGE PRESSURE XMTR | 3301 | RCS | XMT | CS | | 0013 | 07 |
| 1523 | M33RCS-PT455B | PRESSURIZER 3RCS*TK1 PRESSURE TRANSMTTER | 3301 | RCS | XMT | CS | | 0003 | 08 |
| 1524 | M33SFC-FT19 | FUEL POOL COOLERS RETURN FLOW FLOW TRANSMITTER | 3305 | SFC | XMT | FB | | 0045 | |
| 1525 | M33SFC-PT36 | FUEL POOL COOLING PMPS DISCHARGE PRESSURE TRANSMITTER | 3305 | SFC | XMT | FB | | 0024 | 06 |
| 1526 | M33SIH-FT63 | SAFETY INJECTION PUMPS MINIFLOW FLOW TRANSMITTER | 3308 | HPI | XMT | ES | | 0004 | 06 |
| 1527 | M33SIH-FT917 | CHARGING PUMP DISCHARGE FLOW INDICATION FLOW TRANSMITTER | 3308 | HPI | XMT | AB | | 0004 | 06 |
| 1528 | M33SIH-FT918 | SAFETY INJECTION PUMP 'A' DISCHARGE FLOW TRANSMITTER | 3308 | HPI | XMT | ES | | 0021 | |
| 1529 | M33SIH-FT922 | SAFETY INJECTION PUMP 'B' DISCHARGE FLOW TRANSMITTER | 3308 | HPI | XMT | ES | | 0004 | |
| 1530 | M33SIH-PT62A | SAFETY INJECTION PUMP 3SIH*P1A SUCTION PRESSURE TRANSMITTER | 3308 | HPI | XMT | ES | | 0012 | |
| 1531 | M33SIH-PT62B | SAFETY INJECTION PUMP 3SIH*P1B SUCTION PRESSURE TRANSMITTER | 3308 | HPI | XMT | ES | | 0004 | 06 |
| 1532 | M33SIH-PT919 | SAFETY INJECTION PUMP DISCHARGE PRESSURE TRANSMITTER | 3308 | HPI | XMT | ES | | 0010 | |
| 1533 | M33SIH-PT923 | SAFETY INJECTION PUMP DISCHARGE PRESSURE TRANSMITTER | 3308 | HPI | XMT | ES | | 0010 | |
| 1534 | M33FWA*FT33A | AUX FW FLO TO STEAM GENERATOR 3RCS*SG1A FLOW TRANSMITTER | 3322 | AFW | XMT | CS | COLUMN 11 OUTER WALL | 0025 | |
| 1535 | M33FWA*FT33B | AUX FW FLO TO STEAM GENERATOR 3RCS*SG1B FLOW TRANSMITTER | 3322 | AFW | XMT | CS | COLUMN 19 OUTER WALL | 0024 | |
| 1536 | M33FWA*FT33C | AUX FW FLO TO STEAM GENERATOR 3RCS*SG1C FLOW TRANSMITTER | 3322 | AFW | XMT | CS | COLUMN 20 OUTER WALL | 0004 | |
| 1537 | M33FWA*FT33D | AUX FW FLO TO STEAM GENERATOR 3RCS*SG1D FLOW TRANSMITTER | 3322 | AFW | XMT | CS | COLUMN 11 OUTER WALL | 0004 | |
| 1538 | M33FWA*FT51A | AUX FW FLO TO STEAM GENERATOR 3RCS*SG1A FLOW TRANSMITTER | 3322 | AFW | XMT | CS | COLUMN 10 OUTER WALL | 0025 | |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1539 | M33FWA*FT51B | AUX FW FLO TO STEAM GENERATOR 3RCS*SG1B FLOW TRANSMITTER | 3322 | AFW | XMT | CS | COLUMN 20 OUTER WALL | 0004 | |
| 1540 | M33FWA*FT51C | AUX FW FLO TO STEAM GENERATOR 3RCS*SG1C FLOW TRANSMITTER | 3322 | AFW | XMT | CS | COLUMN 20 OUTER WALL | 0004 | |
| 1541 | M33FWA*FT51D | AUX FW FLO TO STEAM GENERATOR 3RCS*SG1D FLOW TRANSMITTER | 3322 | AFW | XMT | CS | COLUMN 10 OUTER WALL | 0025 | |
| 1542 | M33FWA*LT20A | DEMINERALIZED WTR STORAGE TNK 3FWA*TK1 LVL XMITTER | 3322 | AFW | XMT | ES | | 0004 | |
| 1543 | M33FWA*LT20B | DEMINERALIZED WTR STORAGE TNK 3FWA*TK1 LVL XMITTER | 3322 | AFW | XMT | ES | | 0004 | |
| 1544 | M33FWA*ST40 | AUXILIARY FEEDWATER PUMP 3FWA*P2 TURBINE SPEED TACHOMETER | 3322 | AFW | XMT | ES | | 0021 | |
| 1545 | M33FWA-FT51A2 | AUX FDWTR FLW TO STM GEN 3RCS*SG1A FLOW TRANSMITER | 3322 | AFW | XMT | CS | 3CES*PNLBS3P | 0024 | 06 |
| 1546 | M33FWA-FT51D2 | AUX FEEDWTR FLOW TO STEAM GEN 3RCS*SG1D FLOW XMTTR | 3322 | AFW | XMT | CS | | 0024 | |
| 1547 | M33FWA-PT28A | AUXILIARY FEEDWATER PUMP 3FWA*P1A SUCTION PRESSURE PRESS XMTR | 3322 | AFW | XMT | ES | | 0012 | |
| 1548 | M33FWA-PT28B | AUXILIARY FEEDWATER PMP 3FWA*P1B SUCTION PRESSURE TRANSMITTER | 3322 | AFW | XMT | ES | | 0012 | |
| 1549 | M33FWA-PT28C | AUXILIARY FEEDWATER PMP 3FWA*P2 SUCTION PRESSURE TRANSMITTER | 3322 | AFW | XMT | ES | | 0012 | |
| 1550 | M33FWA-PT29A | AUXILIARY FEEDWATER PUMP 3FWA*P1A DISCHARGE PRESSURE TRANSMITTER | 3322 | AFW | XMT | ES | | 0012 | |
| 1551 | M33FWA-PT29B | AUXILIARY FEEDWATER PUMP 3FWA*P1B DISCHARGE PRESSURE TRANSMITTER | 3322 | AFW | XMT | ES | | 0012 | |
| 1552 | M33FWA-PT29C | AUXILIARY FEEDWATER PUMP 3FWA*P2 DISCHARGE PRESSURE TRANSMITTER | 3322 | AFW | XMT | ES | | 0012 | |
| 1553 | M33SWP-FT43A | RX PLANT COMP HX (TRAIN A) OUTLET FLOW IND AND ALRM FLW TRANSMTTR | 3326 | SWS | XMT | AB | | 0009 | |
| 1554 | M33SWP-FT43B | RX PLANT COMP HX (TRAIN B) OUTLET FLOW TRANSMITTER | 3326 | SWS | XMT | AB | | 0009 | |
| 1555 | M33SWP-FT59A | 3RSS*E1A SERVICE WATER OUTLET FLOW TRANSMITTER | 3326 | SWS | XMT | ES | | 0004 | 06 |
| 1556 | M33SWP-FT59B | 3RSS*E1B SERVICE WATER OUTLET FLOW TRANSMITTER | 3326 | SWS | XMT | ES | | 0004 | 06 |
| 1557 | M33SWP-FT59C | 3RSS*E1C SERVICE WATER OUTLET FLOW TRANSMITTER | 3326 | SWS | XMT | ES | | 0004 | |
| 1558 | M33SWP-FT59D | 3RSS*E1D SERVICE WATER OUTLET FLOW TRANSMITTER | 3326 | SWS | XMT | ES | | 0004 | 06 |
| 1559 | M33SWP-PT106A | AIR COND BOOSTER PMP 3SWP*P2A SUCTION PRESS TRANSMITTER | 3326 | SWS | XMT | CB | | 0069 | |

## Base List 1

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1560 | M33SWP-PT106B | AIR COND BOOSTER PMP 3SWP*P2B SUCTION PRESS TRANSMITTER | 3326 | SWS | XMT | CB | | 0069 | |
| 1561 | M33SWP-PT26A | SERV WATER SUPPLY PRESS (HDR A) PRESSURE TRANSMITTER | 3326 | SWS | XMT | CW | PUMPHOUSE | 0018 | 05 |
| 1562 | M33SWP-PT26B | SERV WATER SUPPLY PRESS (HDR B) PRESSURE TRANSMITTER | 3326 | SWS | XMT | CW | PUMP HOUSE | 0018 | 05 |
| 1563 | M33SWP-PT42A | AIR COND BOOSTER PMP 3SWP*P2A DISCH PRESS IND PRESS TRANSMITTER | 3326 | SWS | XMT | CB | | 0069 | |
| 1564 | M33SWP-PT42B | AIR COND BOOSTER PMP 3SWP*P2B DISCH PRESS IND PRESS TRANSMITTER | 3326 | SWS | XMT | CB | | 0069 | |
| 1565 | M33SWP-PT98A | SERVICE WTR PMP 3SWP*P1A LUBE WATER PRESSURE TRANSMITTER | 3326 | SWS | XMT | CW | | 0019 | |
| 1566 | M33SWP-PT98B | SERVICE WTR PMP 3SWP*P1B LUBE WATER PRESSURE TRANSMITTER | 3326 | SWS | XMT | CW | | 0019 | |
| 1567 | M33SWP-PT98C | SERVICE WTR PMP 3SWP*P1C LUBE WATER PRESSURE TRANSMITTER | 3326 | SWS | XMT | CW | | 0019 | |
| 1568 | M33SWP-PT98D | SERVICE WTR PMP 3SWP*P1D LUBE WATER PRESSURE TRANSMITTER | 3326 | SWS | XMT | CW | | 0019 | |
| 1569 | M33CHS*ZT190A | CHARGING HEADER FLOW CNT VLV 3CHS*HCV190A ELECTRONIC CONTROL MOD | 3304A | CVC | XMT | AB | | 0004 | |
| 1570 | M33CHS*ZT190B | CHARGING HEADER FLOW CNT VLV 3CHS*HCV190B ELECTRONIC CONTROL MOD | 3304A | CVC | XMT | AB | | 0024 | |
| 1571 | M33CHS-FT121 | CHARGING LINE FLOW CONTROL VALVE 3CHS*FCV121 FLOW TRANSMITTER | 3304A | CVC | XMT | AB | | 0004 | |
| 1572 | M33CHS-FT132 | LTDN HTX 3CHS*E2 FLOW INDICATION AND ALRM FLOW TRANSMITTER | 3304A | CVC | XMT | AB | | 0004 | |
| 1573 | M33CHS-FT139 | REACTOR COOLANT LOOP FILL HEADER FLOW INDICATION FLOW TRANSMITTR | 3304A | CVC | XMT | AB | CES-RK12-06 | 0004 | 06 |
| 1574 | M33CHS-FT142 | REACTOR COOLANT PUMP 3RCS*P1D #1 SEAL WTR INJ FLOW TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK-06 | 0004 | 06 |
| 1575 | M33CHS-FT143 | REACTOR COOLANT PUMP 3RCS*P1C #1 SEAL WTR INJ FLOW TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK-07 | 0004 | |
| 1576 | M33CHS-FT144 | REACTOR COOLANT PUMP 3RCS*P1B #1 SEAL WTR INJ FLOW TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK-07 | 0004 | |
| 1577 | M33CHS-FT145 | REACTOR COOLANT PUMP 3RCS*P1A #1 SEAL WTR INJ FLOW TRANSMITTER | 3304A | CVC | XMT | AB | | 0004 | |
| 1578 | M33CHS-FT154 | REACTOR COOLANT PMP 3RCS*P1D FLOW TRANSMITTER | 3304A | CVC | XMT | CS | CONTAINMENT | -008 | 04 |
| 1579 | M33CHS-FT155 | REACTOR COOLANT PMP 3RCS*P1C FLOW TRANSMITTER | 3304A | CVC | XMT | CS | | -008 | 09 |
| 1580 | M33CHS-FT156 | REACTOR COOLANT PMP 3RCS*P1B FLOW TRANSMITTER | 3304A | CVC | XMT | CS | | -008 | 06 |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1581 | M33CHS-FT157 | REACTOR COOLANT PMP 3RCS*P1A FLOW TRANSMITTER | 3304A | CVC | XMT | CS | | -008 | 04 |
| 1582 | M33CHS-FT158 | REACTOR COOLANT PMP 3RCS*P1D FLOW TRANSMITTER | 3304A | CVC | XMT | CS | CONTAINMENT | -008 | 04 |
| 1583 | M33CHS-FT159 | REACTOR COOLANT PMP 3RCS*PIC HI RANGE FLOW | 3304A | CVC | XMT | CS | | -008 | 04 |
| 1584 | M33CHS-FT160 | REACTOR COOLANT PMP 3RCS*P1B FLOW TRANSMITTER | 3304A | CVC | XMT | CS | CONTAINMENT | -008 | 04 |
| 1585 | M33CHS-FT161 | REACTOR COOLANT PMP 3RCS*P1A FLOW TRANSMITTER | 3304A | CVC | XMT | CS | CONTAINMENT | -008 | 04 |
| 1586 | M33CHS-FT75 | IN SERVICE CHARGING PUMPS RECIRCULATION FLOW TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK12-09 | 0004 | 06 |
| 1587 | M33CHS-FT99 | VOLUME CONTROL TANK 3CHS*TK2 SWIRL CONTROL FLOW TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK12-02 | 0043 | 06 |
| 1588 | M33CHS-LT112 | VOLUME CONTROL TANK 3CHS*TK2 LEVEL TRANSMITTER | 3304A | CVC | XMT | AB | | 0044 | |
| 1589 | M33CHS-PT115 | VOL CONT TANK PRESSURE TRANSMITTER | 3304A | CVC | XMT | AB | | 0043 | |
| 1590 | M33CHS-PT120 | CHARGING PUMPS 3CHS*P3A,B&C DISCHARGE PRESSURE TRANSMITTER | 3304A | CVC | XMT | AB | 3CES*MCB-MB3 | 0047 | 06 |
| 1591 | M33CHS-PT124 | EXCESS LETDOWN HEAT EXCHG 3CHS*E3 OUTLET PRESSURE TRANSMITTER | 3304A | CVC | XMT | CS | | 0006 | 08 |
| 1592 | M33CHS-PT131 | LW PRESSURE LETDOWN PRESSURE CNTRL VLV 3CSH*PCV131 PRS TRANSMTTR | 3304A | CVC | XMT | AB | | 0004 | 06 |
| 1593 | M33CHS-PT138 | REACTOR COOLANT LOOP FILL HEADER PRS INDICATION PRS TRANS | 3304A | CVC | XMT | CS | | 0008 | 02 |
| 1594 | M33CHS-PT150 | RCP 3RCS*P1D #1 SEAL DIF PRS IND AND ALAM DIF PRS TRANSMITTER | 3304A | CVC | XMT | CS | | 0011 | 03 |
| 1595 | M33CHS-PT151 | RCP 3RCS*P1C #1 SEAL DIF PRS IND AND ALAM DIF PRS TRANSMITTER | 3304A | CVC | XMT | CS | | 0006 | 08 |
| 1596 | M33CHS-PT152 | RCP 3RCS*P1B #1 SEAL DIF PRS IND AND ALRM DIF PRS TRANSMITTER | 3304A | CVC | XMT | CS | | 0006 | 08 |
| 1597 | M33CHS-PT153 | RCP 3RCS*P1A #1 SEAL DIF PRS IND AND ALRM DIF PRS TRANSMITTER | 3304A | CVC | XMT | CS | | 0006 | 08 |
| 1598 | M33CHS-PT76A | IN SERVICE CHARGING PUMP 3CHS*P3A SUCTION PRESSURE TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK12-09 | 0004 | 06 |
| 1599 | M33CHS-PT76B | IN SERVICE CHARGING PUMP 3CHS*P3B SUCTION PRESSURE TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK12-03 | 0004 | 06 |
| 1600 | M33CHS-PT76C | IN SERVICE CHARGING PUMP 3CHS*P3B SUCTION PRESSURE TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK12-03 | 0004 | 06 |
| 1601 | M33CHS-PT77A | IN SERVICE CHARGING PUMP 3CHS*P3A DISCHARGE PRESSURE TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK12-09 | 0004 | 06 |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1602 | M33CHS-PT77B | IN SERVICE CHARGING PUMP 3CHS*P3B DISCH PRESSURE TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK12-03 | 0004 | 06 |
| 1603 | M33CHS-PT77C | IN SERVICE CHARGING PUMP 3CHS*P3C DISCH PRESSURE TRANSMITTER | 3304A | CVC | XMT | AB | 3CES-RK12-03 | 0004 | 06 |
| 1604 | M33CHS-PT80 | GASEOUS WST TO CHEMICL & VOL CNTRL SYS PRESSURE CNTRL PRS TRANSMT | 3304A | CVC | XMT | AB | | 0045 | 06 |
| 1605 | M33CHS*FT110 | BORIC ACID INJECT VLV 3CHS*FCV110A TO FLOW TRANSMITTER | 3304C | CVC | XMT | CB | | 0029 | 06 |
| 1606 | M33CHS*LT102 | BORIC ACIC TANK 3CHS*TK5A LEVEL TRANSMITTER | 3304C | CVC | XMT | AB | | 0005 | |
| 1607 | M33CHS*LT104 | BORIC ACID TANK 3CHS*TK5A LEVEL TRANSMITTER | 3304C | CVC | XMT | AB | | 0024 | |
| 1608 | M33CHS*LT105 | BORIC ACID TANK 3CHS*TK5B LEVEL TRANSMITTER | 3304C | CVC | XMT | AB | | 0025 | |
| 1609 | M33CHS*LT106 | BORIC ACID TANK 3CHS*TK5B LEVEL TRANSMITTER | 3304C | CVC | XMT | AB | | 0005 | |
| 1610 | M33CHS-FT111 | REACTOR MAKEUP WTR INJECT VLV 3CHS*FCV111A FLOW TRANSMITTER | 3304C | CVC | XMT | AB | | 0045 | |
| 1611 | M33CHS-FT183 | EMER BORATION FLOW TRANSMITTER | 3304C | CVC | XMT | AB | 3CES-RK12-09 | 0004 | 06 |
| 1612 | M33CHS-PT78A | IN SERVICE BORIC ACID TRANS PMP 3CHS*P2A DISCH PRESS TRANSMITTER | 3304C | CVC | XMT | AB | | 0043 | |
| 1613 | M33SIL*ZT943A | SI TANK N2 VENT VALVE POSITION TRANSMITTER (3SIL*HCV943A) | 3307A | LPI | XMT | CS | | 0024 | |
| 1614 | M33SIL*ZT943B | SI TANK N2 VENT VALVE POSITION TRANSMITTER (3SIL*HCV943B) | 3307A | LPI | XMT | AB | | 0024 | |
| 1615 | M33SIL-LT950 | SFTY INJ ACCUM TK 1A LEVEL TRANSMITTER | 3307A | LPI | XMT | CS | | -009 | 03 |
| 1616 | M33SIL-LT951 | SFTY INJ ACCUM TK 1A LEVEL TRANSMITTER | 3307A | LPI | XMT | CS | | -009 | 03 |
| 1617 | M33SIL-LT952 | SFTY INJ ACCUM TK 1B LEVEL TRANSMITTER | 3307A | LPI | XMT | CS | | -009 | 03 |
| 1618 | M33SIL-LT953 | SFTY INJ ACCUM TK 1B LEVEL TRANSMITTER | 3307A | LPI | XMT | CS | | -009 | 03 |
| 1619 | M33SIL-LT954 | SFTY INJ ACCUM TK 1C LEVEL TRANSMITTER | 3307A | LPI | XMT | CS | | -009 | 03 |
| 1620 | M33SIL-LT955 | SFTY INJ ACCUM TK 1C LEVEL TRANSMITTER | 3307A | LPI | XMT | CS | | -009 | 03 |
| 1621 | M33SIL-LT956 | SFTY INJ ACCUM TK 1D LEVEL TRANSMITTER | 3307A | LPI | XMT | CB | | -009 | 03 |
| 1622 | M33SIL-LT957 | SFTY INJ ACCUM TK 1D LEVEL TRANSMITTER | 3307A | LPI | XMT | CS | | -009 | 03 |
| 1623 | M33SIL-PT960 | SFTY INJ ACCUM TK 1A PRESSURE TRANSMITTER | 3307A | LPI | XMT | CS | | -004 | 03 |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1624 | M33SIL-PT961 | SFTY INJ ACCUM TK 1A PRESSURE TRANSMITTER | 3307A | LPI | XMT | CS | BETWEEN A&D ACC TANK | -004 | 03 |
| 1625 | M33SIL-PT962 | SFTY INJ ACCUM TK 1B PRESSURE TRANSMITTER | 3307A | LPI | XMT | CS | | -004 | 03 |
| 1626 | M33SIL-PT963 | SFTY INJ ACCUM TK 1B PRESSURE TRANSMITTER | 3307A | LPI | XMT | CS | BETWEEN B&C ACC TANK | -004 | 03 |
| 1627 | M33SIL-PT964 | SFTY INJ ACCUM TK 1C PRESSURE TRANSMITTER | 3307A | LPI | XMT | CS | | -004 | 03 |
| 1628 | M33SIL-PT965 | SFTY INJ ACCUM TK 1C PRESSURE TRANSMITTER | 3307A | LPI | XMT | CS | BETWEEN B&C ACC TANK | -004 | 03 |
| 1629 | M33SIL-PT966 | SFTY INJ ACCUM TK 1D PRESSURE TRANSMITTER | 3307A | LPI | XMT | CS | | -004 | 03 |
| 1630 | M33SIL-PT967 | SFTY INJ ACCUM TK 1D PRESSURE TRANSMITTER | 3307A | LPI | XMT | CS | BETWEEN A&D ACC TANK | -004 | 03 |
| 1631 | M33RHS-FT618 | RHR HX E1A BYPASS CONTROL FLOW TRANSMITTER | 3307B | RHR | XMT | ES | | 0021 | |
| 1632 | M33RHS-FT619 | RHR HX E1B BYPASS CONTROL FLOW TRANSMITTER | 3307B | RHR | XMT | ES | | 0004 | |
| 1633 | M33RHS-PT26A | IN SERV RHR PP SUCT PRESSURE TRANSMITTER | 3307B | RHR | XMT | ES | | 0012 | |
| 1634 | M33RHS-PT26B | IN SERV RHR PP SUCT PRESSURE TRANSMITTER | 3307B | RHR | XMT | ES | | 0012 | |
| 1635 | M33RHS-PT614 | RHR PMP P1A DISCH PRESSURE TRANSMITTER | 3307B | RHR | XMT | ES | | 0021 | |
| 1636 | M33RHS-PT615 | RHR PMP P1B DISCH PRESSURE TRANSMITTER | 3307B | RHR | XMT | ES | | 0010 | |
| 1637 | M33HVR*PDT208A | AUX BLDG FLT EXH FAN DIFF PRESSURE TRANSMITTER | 3314A | RBV | XMT | AB | | 0009 | |
| 1638 | M33HVR*PDT208B | AUX BLDG FLT EXH FAN DIFF PRESSURE TRANSMITTER | 3314A | RBV | XMT | AB | | 0069 | |
| 1639 | M33HVR*PT104A | AUX BLDG FLT 3HVR*FLT1A INLET CONTROL PRESSURE TRANSMITTER | 3314A | RBV | XMT | AB | | 0066 | |
| 1640 | M33HVR*PT104B | AUX BLDG FLT 3HVR*FLT1B INLET CONTROL PRESSURE TRANSMITTER | 3314A | RBV | XMT | AB | | 0066 | |
| 1641 | M33HVC-PT73A | AIR STORAGE TKS HEADER "A&B" PRESSURE TRANSMITTER | 3314F | ACC | XMT | CB | | 0064 | |
| 1642 | M33HVC-PT73B | AIR STORAGE TKS HEADER "A&B" PRESSURE TRANSMITTER | 3314F | ACC | XMT | CB | | 0064 | |
| 1643 | M33HVK*PDT32A | CHILLED WTR SUPPLY & RETURN (TRAIN A) PRESSURE TRANSMITTER | 3314F | CBW | XMT | CB | | 0081 | |
| 1644 | M33HVK*PDT32B | CHILLED WTR SUPPLY & RETURN (TRAIN B) PRESSURE TRANSMITTER | 3314F | CBW | XMT | CB | | | |
| 1645 | M33HVK-FT49A | WATER CHILLER 3HVK*CHL1A OUTLET FLOW INDICATION FLOW TRANSMITTER | 3314F | CBW | XMT | CB | | 0069 | |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1646 | M33HVK-FT49B | WATER CHILLER 3HVK*CHL1B OUTLET FLOW INDICATION FLOW TRANSMITTER | 3314F | CBW | XMT | CB | | 0069 | |
| 1647 | M33HVK-PT48A | CHILLED WTR PMP 3HVK*P1A DISCHARGE PRESSURE IND PRESSURE TRANSMTT | 3314F | CBW | XMT | CB | | 0069 | |
| 1648 | M33HVK-PT48B | CHILLED WTR PMP 3HVK*P1B DISCHARGE PRESSURE IND PRESSURE TRANSMTT | 3314F | CBW | XMT | CB | | 0069 | |
| 1649 | M33HVK-PT51A | CHILLED WTR PMP 3HVK*P1A SUCTION PRESSURE INDICATION PRS TRANSMIT | 3314F | CBW | XMT | CB | | 0069 | |
| 1650 | M33HVK-PT51B | CHILLED WTR PMP 3HVK*P1B SUCTION PRESSURE INDICATION PRS TRANSMIT | 3314F | CBW | XMT | CB | | 0069 | |
| 1651 | M33MSS*FT512 | STEAM GENERATOR 3RCS*SG1A STEAM FLOW INDICATION FLOW TRANSMITTER | 3316A | STG | XMT | CS | | 0029 | |
| 1652 | M33MSS*FT513 | STEAM GENERATOR 3RCS*SG1A STEAM FLOW INDICATION FLOW TRANSMITTER | 3316A | STG | XMT | CS | | 0029 | |
| 1653 | M33MSS*PT505 | HI PRS TRBN 3MSS-T1 IMPLSE CHMBR PRS (CHANNEL 1) PRES TRANSMITTER | 3316A | STG | XMT | TB | | 0043 | |
| 1654 | M33MSS*PT506 | HI PRS TRBN 3MSS-T1 IMPLSE CHMBR PRS (CHANNEL 2) PRES TRANSMITTER | 3316A | STG | XMT | TB | | 0043 | |
| 1655 | M33MSS*PT514 | STEAM GEN 3RCS*SG1A STEAM LINE PRESSURE (CHANNEL 1) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1656 | M33MSS*PT515 | STEAM GEN 3RCS*SG1A STEAM LINE PRESSURE (CHANNEL 2) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1657 | M33MSS*PT516 | STM GEN 3RCS*SG1A STM LINE PRESS (CHANNEL 3) XMTTER | 3316A | STG | XMT | MS | | 0049 | |
| 1658 | M33MSS*PT524 | STEAM GEN 3RCS*SG1B STEAM LINE PRESSURE (CHANNEL 1) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1659 | M33MSS*PT525 | STEAM GEN 3RCS*SG1B STEAM LINE PRESSURE (CHANNEL 2) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1660 | M33MSS*PT526 | STEAM GEN 3RCS*SG1B STEAM LINE PRESSURE (CHANNEL 3) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1661 | M33MSS*PT534 | STEAM GEN 3RCS*SG1C STEAM LINE PRESSURE (CHANNEL 1) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1662 | M33MSS*PT535 | STEAM GEN 3RCS*SG1C STEAM LINE PRESSURE (CHANNEL 2) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1663 | M33MSS*PT536 | STEAM GEN 3RCS*SG1C STEAM LINE PRESSURE (CHANNEL 3) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1664 | M33MSS*PT544 | STEAM GEN 3RCS*SG1D STEAM LINE PRESSURE (CHANNEL 1) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1665 | M33MSS*PT545 | STEAM GEN 3RCS*SG1D STEAM LINE PRESSURE (CHANNEL 2) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1666 | M33MSS*PT546 | STEAM GEN 3RCS*SG1D STEAM LINE PRESSURE (CHANNEL 4) TRANSMITTER | 3316A | STG | XMT | MS | | 0049 | |
| 1667 | M33MSS-FT522 | STEAM GENERATOR 3RCS*SG1B STEAM FLOW INDICATION FLOW TRANSMITTER | 3316A | STG | XMT | CS | | 0024 | 06 |
| 1668 | M33MSS-FT523 | STEAM GENERATOR 3RCS*SG1B STEAM FLOW INDICATION FLOW TRANSMITTER | 3316A | STG | XMT | CS | | 0029 | |
| 1669 | M33MSS-FT532 | STEAM GENERATOR 3RCS*SG1C STEAM FLOW INDICATION FLOW TRANSMITTER | 3316A | STG | XMT | CS | | 0029 | |
| 1670 | M33MSS-FT533 | STEAM GENERATOR 3RCS*SG1C STEAM FLOW INDICATION FLOW TRANSMITTER | 3316A | STG | XMT | CS | | 0029 | |
| 1671 | M33MSS-FT542 | STEAM GENERATOR 3RCS*SG1D STEAM FLOW INDICATION FLOW TRANSMITTER | 3316A | STG | XMT | CS | | 0029 | |
| 1672 | M33MSS-FT543 | STEAM GENERATOR 3RCS*SG1D STEAM FLOW INDICATION FLOW TRANSMITTER | 3316A | STG | XMT | CS | | 0024 | 06 |
| 1673 | M33MSS-PT20A | MAIN STM PRESS RELIEF VLV 3MSS*PV20A PRESS XMITTER | 3316A | STG | XMT | MS | | 0054 | |
| 1674 | M33MSS-PT20B | MAIN STM PRESS RELIEF VLV 3MSS*PV20B PRESS XMTR | 3316A | STG | XMT | MS | | 0054 | |
| 1675 | M33MSS-PT20C | MAIN STM PRESS RELIEF VLV 3MSS*PV20C PRESS XMITTER | 3316A | STG | XMT | MS | MAIN STEAM VLV.BLDG. | 0044 | |
| 1676 | M33MSS-PT20D | MAIN STM PRESS RELIEF VLV 3MSS*PV20D PRESS XMITTER | 3316A | STG | XMT | MS | MAIN STEAM VLV.BLDG. | 0049 | |
| 1677 | M33MSS-PT32 | STM GEN AUX FEED PUMP STEAM SUPLY PRESS IND PRESSURE TRANSMITTER | 3316A | STG | XMT | ES | | 0004 | |
| 1678 | M33MSS-PT514B | STM GEN 3RCS*SG1A STM LINE PRESSURE TRANSMTTER | 3316A | STG | XMT | CS | | 0024 | 06 |
| 1679 | M33MSS-PT524B | STM GEN 3RCS*SG1B STEAM LINE PRESS TRANSMITTR | 3316A | STG | XMT | CS | | 0024 | 06 |
| 1680 | M33MSS-PT534B | STM GEN 3RCS*SGIC STM LINE PRESS TRANSMITTER | 3316A | STG | XMT | CS | | 0024 | 06 |
| 1681 | M33MSS-PT544B | STM GEN 3RCS*SG1D STEAM LINE PRESS TRANSMITTER | 3316A | STG | XMT | CS | | 0024 | 06 |
| 1682 | M33CCP*FT178A | RCP 3RCS*P1A THERMAL BARRIER FLOW TRANSMITTER | 3330A | CCR | XMT | CS | COLUMN 12 CRANE WALL | 0004 | |
| 1683 | M33CCP*FT178B | RCP 3RCS*P1B THERMAL BARRIER FLOW TRANSMITTER | 3330A | CCR | XMT | CS | COLUMN 18 CRANE WALL | 0004 | |

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| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1684 | M33CCP*FT178C | RCP 3RCS*P1C THERMAL BARRIER FLOW TRANSMITTER | 3330A | CCR | XMT | CS | COLUMN 2 CRANE WALL | 0004 | |
| 1685 | M33CCP*FT178D | 3RCS*P1D THERMAL BARRIER FLOW TRANSMITTER | 3330A | CCR | XMT | CS | COLUMN 8 CRANE WALL | 0003 | |
| 1686 | M33CCP*FT67A | RESIDUAL HEAT EXCHANGER 3RHS*E1A OUTLET FLOW TRANSMITTER | 3330A | CCR | XMT | ES | | 0004 | |
| 1687 | M33CCP*FT67B | RESIDUAL HEAT EXCHANGER 3RHS*E1B OUTLET FLOW TRANSMITTER | 3330A | CCR | XMT | ES | | 0004 | |
| 1688 | M33CCP*TT32A | RX PLANT COMP COOLER 3CCP*E1A OUT TEMP CONT VLV TEMP TRANSMITTER | 3330A | CCR | XMT | AB | | 0029 | 08 |
| 1689 | M33CCP*TT32B | RX PLANT COMP COOLER 3CCP*E1B OUT TEMP CONT VLV TEMP TRANSMITTER | 3330A | CCR | XMT | AB | | 0029 | 08 |
| 1690 | M33CCP*TT32C | RX PLANT COMP COOLER 3CCP*E1C OUT TEMP CONT VLV TEMP TRANSMITTER | 3330A | CCR | XMT | AB | | 0029 | 08 |
| 1691 | M33CCP-FT11A | COMP COOL SAFETY SUPPLY HEADER FLOW TRANSMITTER | 3330A | CCR | XMT | FB | | 0011 | |
| 1692 | M33CCP-FT11B | COMP COOL SAFETY SUPPLY HEADER FLOW TRANSMITTER | 3330A | CCR | XMT | FB | | 0011 | |
| 1693 | M33CCP-FT15A | CONT COOL SUPPLY HEADER FLOW TRANSMITTER | 3330A | CCR | XMT | AB | | 0016 | 06 |
| 1694 | M33CCP-FT15B | CONT COOL SUPPLY HEADER FLOW TRANSMITTER | 3330A | CCR | XMT | AB | | 0016 | 06 |
| 1695 | M33CCP-FT230 | CHARGING PUMP COOLING SURGE TANK 3CCE*TK1 INLET FLOW TRANSMITTER | 3330A | CCR | XMT | AB | | 0049 | |
| 1696 | M33CCP-FT233 | SAFETY INJ PMP COOL SG TK 3CCI*TK1 INLET FLOW TRANSMITTER | 3330A | CCR | XMT | ES | | 0039 | |
| 1697 | M33CCP-LT20A | COMP COOL WTR SURGE TK 33CP*TK1 M/U LEVEL TRANSMITTER | 3330A | CCR | XMT | AB | | 0069 | 06 |
| 1698 | M33CCP-LT20B | COMP COOL WTR SURGE TK 33CP*TK1 M/U LEVEL TRANSMITTER | 3330A | CCR | XMT | AB | | 0069 | 09 |
| 1699 | M33CCP-PT256A | RX PLANT COMP COOL PMP 3CCP*P1A SUCT COOL PRESS TRANSMITTER | 3330A | CCR | XMT | AB | | 0009 | |
| 1700 | M33CCP-PT256B | B PUMP SUCTION PRESSURE TRANSMITTER | 3330A | CCR | XMT | AB | | 0009 | |
| 1701 | M33CCP-PT256C | RX PLANT COMP COOL PMP 3CCP*P1C SUCT COOL PRESS TRANSMITTER | 3330A | CCR | XMT | AB | | 0009 | |
| 1702 | M33CCP-PT29A | COMP COOL PMP 3CCP*P1A DISCH PRESS TRANSMITTER | 3330A | CCR | XMT | AB | | 0029 | |
| 1703 | M33CCP-PT29B | COMP COOL PMP 3CCP*P1B DISCH PRESS TRANSMITTER | 3330A | CCR | XMT | AB | | 0027 | |
| 1704 | M33CCP-PT29C | COMP COOL PMP 3CCP*P1C DISCH PRESS TRANSMITTER | 3330A | CCR | XMT | AB | | 0029 | |
| 1705 | M33CCE-FT35A | CHG PMPS OIL CLER 3CHS*E9A OUT FL ALARM TRANS, VLVS AND TUBING | 3330D | CCE | XMT | AB | | 0030 | 07 |

**Base List 1**

| ITEM | LOCAL ID | EQUIPMENT DESCRIPTION | LOC SYS | SYS | COMP | BLD | ROOM | EL FT | EL IN |
|---|---|---|---|---|---|---|---|---|---|
| 1706 | M33CCE-FT35B | CHARGING PMPS OIL COOLER 3CHS*E9B OUTLET FLOW ALARM TRANSMITTER | 3330D | CCE | XMT | AB | | 0030 | 07 |
| 1707 | M33CCE-FT35C | CHARGING PMPS OIL COOLER 3CHS*E9C OUTLET FLOW ALARM TRANSMITTER | 3330D | CCE | XMT | AB | | 0030 | 07 |
| 1708 | M33CCE-PT29A | CHARGING PMPS COOL PUMP 3CCE*P1A DISCH PRESSURE TRANSMITTER | 3330D | CCE | XMT | AB | | 0030 | 05 |
| 1709 | M33CCE-PT29B | CHARGING PMPS COOL PUMP 3CCE*P1B DISCH PRESSURE TRANSMITTER | 3330D | CCE | XMT | AB | | 0028 | 05 |
| 1710 | M33CCE-PT41A | CHARGING PMPS COOL PUMP 3CCE*P1A SUCTION PRESSURE TRANSMITTER | 3330D | CCE | XMT | AB | | 0030 | 05 |
| 1711 | M33CCE-PT41B | CHARGING PMPS COOL PUMP 3CCE*P1B SUCTION PRESSURE TRANSMITTER | 3330D | CCE | XMT | AB | | 0028 | 05 |
| 1712 | M33EGF-FT31A | FUEL OIL TRANSFER PMP 3EGF*P1A,*P1C DISCHARGE FLOW TRANSMITTER | 3346B | DFS | XMT | DG | FUEL OIL VAULT | 0017 | 01 |
| 1713 | M33EGF-FT31B | FUEL OIL TRANSFER PMP 3EGF*P1B,*P1D DISCHARGE FLOW TRANSMITTER | 3346B | DFS | XMT | DG | FUEL OIL VAULT | 0014 | |
| 1714 | M33EGF-LT29A | FUEL OIL DAY TANK 3EGF*TK2A LEVEL TRANSMITTER | 3346B | DFS | XMT | EB | "A" DIESEL ENCLOSURE | 0024 | |
| 1715 | M33EGF-LT29B | FUEL OIL DAY TANK 3EGF*TK2B LEVEL TRANSMITTER | 3346B | DFS | XMT | EB | | 0024 | 06 |
| 1716 | M33EGF-PT21A | FUEL OIL TRANSFER PUMP 3EGF*P1A DISCHARGE PRESSURE TRANSMITTER | 3346B | DFS | XMT | DG | FUEL OIL VAULT | 0017 | 01 |
| 1717 | M33EGF-PT21B | FUEL OIL TRANSFER PUMP 3EGF*PIB DISCHARGE PRESSURE TRANSMITTER | 3346B | DFS | XMT | DG | FUEL OIL VAULT | 0024 | 06 |
| 1718 | M33EGF-PT21C | FUEL OIL TRANSFER PUMP 3EGF*P1C DICSHARGE PRESSURE TRANSMITTER | 3346B | DFS | XMT | DG | FUEL OIL VAULT | 0017 | 01 |
| 1719 | M33EGF-PT21D | FUEL OIL TRANSFER PUMP 3EGF*P1D DISCHARGE PRESSURE TRANSMITTER | 3346B | DFS | XMT | DG | FUEL OIL VAULT | 0017 | 01 |

# Appendix B.2

## Seismic Walkdown Equipment List (SWEL)

1. SWEL (Combined SWEL 1 and SWEL 2)
2. Base List 2 / SWEL 2
3. Summary Tables

## 1. SWEL (Combined SWEL 1 and SWEL 2)

**Seismic Walkdown Equipment List (SWEL)**

| Item # | Class | SGCS Function Reference | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | 5 Safety Functions | Area Walkby | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | Support | M33SWP*STR1A | SERVICE WATER PUMP STRAINER A | SWS | CW | 14 | Y | 1,2,3,4,5 | 019 | 2,3 |
| 2 | 1 | Support | M332-1R | 480V AC MOTOR CONTROL CENTER | ELC | AB | 24 | Y | 1,2,3,4,5 | 002 | 1,2,3 |
| 3 | 1 | Support | M332-1U | 480V MCC 32-1U (EMERG) EMERGENCY GENERATOR | ELC | DG | 24 | Y | 1,2,3,4,5 | 020 | 1,2,3 |
| 4 | 1 | Support | M332-2R | 480 VOLT MCC 32-2R(EMERG) ROD CONTROL | ELC | AB | 24 | Y | 1,2,3,4,5 | 002 | 1,2,3 |
| 5 | 1 | Support | M332-1W | 480 VOLT MCC 32-1W(EMERG) AUX BLDG. | ES0 | AB | 24 | Y | 1,2,3,4,5 | 002 | 1,2,3 |
| 6 | 1 | Support | M332-4T | 480V MCC | ELC | ES | 36 | Y | 1,2,3,4,5 | 024 | 1,2,3 |
| 7 | 1 | Support | M332-5T | 480 VOLT MCC 32-5T(EMERG) CIRC WATER PUMP HOUSE | ELC | CW | 14 | Y | 1,2,3,4,5 | 019 | 1,2,3 |
| 8 | 1 | Support | M332-2U | 480 VOLT MCC32-2U | ELC | AB | 24-6 | Y | 1,2,3,4,5 | 013 | 1,2,3 |
| 9 | 20 | Support | M33RCS*ZT442B | RX VESSEL VENT VLV 3RCS*HCV442B POSITIION XMTR | RCS | AB | 24-6 | N | 1,2,3,4,5 | 013 | 2,3 |
| 10 | 20 | Support | M33SIL*ZT943B | SI TANK N2 VENT VLV POS XMTR (3SIL*HCV943B) | LPI | AB | 24-6 | N | 1,2,3,4,5 | 013 | 2,3 |
| 11 | 2 | Support | M332Y | 480 VOLT LOAD CENTER 32Y | ES0 | AB | 24-6 | Y | 1,2,3,4,5 | 002 | 1,2 |
| 12 | 2 | Support | M33BYS*PNL2 | BATTERY BUS 2 (301B-1) | EDC | CB | 4 | Y | 1,2,3,4,5 | 008 | 1,2,3 |
| 13 | 2 | Support | M33BYS*PNL1 | BATTERY BUS 1 (301A-1) | EDC | CB | 4 | Y | 1,2,3,4,5 | 009 | 1,2,3 |
| 14 | 3 | Support | M315G-15U | DIESEL GENERATOR 'B' ELECTRICAL SYSTEM | DGN | DG | 24 | Y | 1,2,3,4,5 | 020 | 2,3 |
| 15 | 3 | Support | M33ENS*SWGB | 4.16KV EMERG BUS (SWGR) | ES4 | CB | 4-6 | Y | 1,2,3,4,5 | 008 | 2,3 |
| 16 | 3 | Support | M33CCP*TRS-P1C | 34C10-2 TRANSFER SWITCH #1 TO 34d9-6 3CCP*P1C | CCR | AB | 45 | N | 1,2,3,4,5 | 014 | 2,3 |
| 17 | 3 | Support | M33CHS*TRS-P3C | 34D21-2/34C22-2 TRANSFER SWITCH TO 3CHS*P3C | CVC | AB | 45 | N | 1,2,3,4,5 | 015 | 2,3 |
| 18 | 0 | Support | M33HVR*MOD72B | FUEL BLDG FILTER EXH FAN OUTLET DAMPER | RBV | AB | 66 | N | 4,5 | 031 | |

## Seismic Walkdown Equipment List (SWEL)

| Item # | Class | SGCS Function Reference | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | 5 Safety Functions | Area Walkby | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 0 | Support | M33HVR*MOD72A | FUEL BLDG FILTER EXH FAN OUTLET DAMPER | RBV | AB | 66 | N | 4,5 | 031 | |
| 20 | 4 | Support | M33VBA*XRC-2 | VIAC-2 ALTERNATE SOURCE TRANSFORMER | ELC | CB | 4 | Y | 1,2,3,4,5 | 008 | 1,2,3 |
| 21 | 4 | Support | M33LAC*EXL2P | 3LAC*PNL3C2P LIGHTING TRANSFORMER | ELC | CB | 4 | N | 1,2,3,4,5 | 008 | 1,2,3 |
| 22 | 4 | Support | M33SCV*XD5P | AC DIST PANEL TRANSFORMER AUXILIARY | EVI | AB | 24 | N | 1,2,3,4,5 | 013 | 1,2,3 |
| 23 | 4 | Support | M33SCV*XD1O | 240V/120V STEP DOWN XFMR ORANGE | EVI | CB | 4 | Y | 1,2,3,4,5 | 010 | 1,2,3 |
| 24 | 5 | Frontline TRM | M33CCE*P1A | A CHARGING PUMP COOLING PUMP | CCE | AB | 24 | Y | 1,2,3, | 001 | 2,3 |
| 25 | 5 | Frontline TRM | M33CCP*P1A | RPCCW PUMP A | CCR | AB | 24 | Y | 1,2,3,4,5 | 001 | 2,3 |
| 26 | 5 | Frontline TRM | M33CHS*P3A | A CHARGING PUMP | CVC | AB | 24 | Y | 1,2,3 | 003 | 2,3 |
| 27 | 5 | Frontline TRM | M33FWA*P1A | MOTOR DRIVEN STEAM GENERATOR AUX FEED PUMP | AFW | ES | 21 | Y | 2,4 | 023 | 2,3 |
| 28 | 5 | Frontline TRM | M33FWA*P2 | TURBINE DRIVEN AUXILIARY FEEDWATER PUMP | AFW | ES | 21 | Y | 2,4 | 023 | 2,3 |
| 29 | 5 | Support | M33SFC*P1A | FUEL POOL COOLING PUMP A | SFC | FB | 24 | N | 4 | 026 | 2,3,4 |
| 30 | 5 | Support | M33SWP*P2B | CONTRL BLDG AC BOOSTER PUMP B | SWS | CB | 64 | N | 1,2,3,4 | 012 | 2,3 |
| 31 | 5 | Support | M33SWP*P3A | MCC AND ROD CONTROL AREA BOOSTER PUMP A | SWS | AB | 43 | N | 1,2,3,4 | 005 | 2,3 |
| 32 | 6 | Frontline TRM | M33RHS*P1A | RESIDUAL HEAT REMOVAL PUMP | RHR | ES | 4 | Y | 4 | 022 | 2 |
| 33 | 6 | Support | M33SWP*P1A | SERVICE WATER PUMP | SWS | CW | 14 | Y | 1,2,3,4 | 019 | 2 |
| 34 | 7 | Frontline SFRM | M33CHS*HCV182 | RCP SEAL WATER FLOW CONTROLLER | CVC | AB | 24-6 | N | 1,2,3, | 003 | |
| 35 | 7 | Frontline SFRM | M33CHS*RV8121 | SEAL RETURN LINE INLET CONTAINMENT RELIEF | CVC | CS | 3-8 | N | 1,2,3 | 017 | 1 |
| 36 | 7 | Frontline SFRM | M33FWA*AOV62A | A TRAIN DISCHARGE CROSS CONN | AFW | ES | | Y | 2,4, | 023 | |
| 37 | 7 | Frontline TRM | M33MSS*AOV31A | TERRY TURBINE STEAM ISOLATION FROM A S/G | STG | ES | 25 | Y | 2,4, | 022 | |

## Seismic Walkdown Equipment List (SWEL)

| Item # | Class | SGCS Function Reference | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | 5 Safety Functions | Area Walkby | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 38 | 7 | Frontline TRM | M33MSS*CTV27A | MAIN STEAM ISOLATION TRIP VALVE | STG | MS | 66 | Y | 4 | 027 | |
| 39 | 7 | Support | M33MSS*RV22A | A STEAM GENERATOR SAFETY VALVE | STG | MS | 69 | Y | 4 | 027 | |
| 40 | 7 | Support | M33MSS*RV23C | C STEAM GENERATOR SAFETY VALVE | STG | MS | 76 | Y | 4 | 027 | |
| 41 | 7 | Frontline TRM | M33RCS*PCV455A | POWER OPERATED RELIEF VALVE | RCS | CS | 76 | Y | 2 | 016 | 1 |
| 42 | 7 | Frontline TRM | M33RHS*FCV619 | RESIDUAL HEAT REMOVAL B HEAT TOTAL FLOW CNTL | RHR | ES | 21-6 | Y | 4 | 025 | |
| 43 | 7 | Support | M33CHS*CV8152 | LETDOWN HX E2 OUTER CTMT ISOLATION | CVC | AB | 18 | Y | 5 | 004 | |
| 44 | 8 | Frontline TRM | M33CHS*HCV190A | CHARGING HEADER FLOW CONTROL | CVC | AB | 4-6 | N | 1.2.3 | 004 | |
| 45 | 8 | Frontline TRM | M33CHS*LCV112B | VCT OUTLET ISOLATION | CVC | AB | 43-6 | Y | 1.2.3 | 029 | |
| 46 | 8 | Frontline SFRM | M33CHS*MV8105 | CHARGING HEADER ISOLATION | CVC | AB | 4-6 | Y | 1.2.3 | 004 | |
| 47 | 8 | Frontline SFRM | M33CHS*MV8109D | RCP A SEAL SUPPLY ISOLATION | CVC | AB | 4-6 | N | 1.2.3 | 004 | |
| 48 | 8 | Frontline SFRM | M33CHS*MV8110 | CHARGING RECIRC ISOL TO SEAL WATER | CVC | AB | 24-6 | Y | 1.2.3 | 003 | |
| 49 | 8 | Frontline SFRM | M33CHS*MV8112 | SEAL WATER RETURN CTMT ISOL | CVC | CS | 3-8 | N | 1,2,3 | 017 | 1 |
| 50 | 8 | Frontline TRM | M33CHS*MV8116 | SAFETY GRADE S/D CHARGING ISOL | CVC | AB | 7 | Y | 1.2.3 | 004 | |
| 51 | 8 | Frontline TRM | M33CHS*MV8438A | CHARGING PUMP A/C DISCHARGE ISOL | CVC | AB | 24-6 | Y | 1.2.3 | 003 | |
| 52 | 8 | Frontline TRM | M33CHS*MV8507B | BAT B GRAVITY BORATION | CVC | AB | 43-6 | Y | 1.2.3 | 030 | |
| 53 | 8 | Frontline TRM | M33FWA*HV31A | AUXILIARY FEEDWATER CONTROL VALVE | AFW | ES | 24 | Y | 2,4 | 023 | |
| 54 | 8 | Frontline TRM | M33FWA*HV32A | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | AFW | ES | 21 | Y | 2,4 | 023 | |
| 55 | 8 | Frontline TRM | M33FWA*HV32D | TURBINE DRIVEN AUXILIARY FEEDWATER CONTROL VLV | AFW | ES | 21 | Y | 2,4 | 023 | |
| 56 | 8 | Frontline TRM | M33FWA*MOV35A | STEAM GENERATOR AUXILIARY FDW ISOLATION VALVE | AFW | ES | 40 | Y | 2,4 | 024 | |

## Seismic Walkdown Equipment List (SWEL)

| Item # | Class | SGCS Function Reference | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | 5 Safety Functions | Area Walkby | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 57 | 8 | Frontline TRM | M33MSS*MOV74A | MAIN STEAM PRESSURE RELIEF ISOLATION VALVE BYPASS | STG | MS | 68 | Y | 4 | 027 | |
| 58 | 8 | Frontline SFRM | M33RHS*FCV610 | RESIDUAL HEAT REMOVAL PUMP P1A MINIFLOW RECIRC | RHR | ES | 4 | Y | 4 | 022 | |
| 59 | 8 | Frontline SFRM | M33RHS*MV8716B | B RHR DISCHARGE TO HOT LEGS AND RWST | RHR | ES | 21 | Y | 4 | 025 | |
| 60 | 8 | Frontline TRM | M33SIL*MV8808A | SI ACCUMULATOR TANK 1 OUTLET ISOL | LPI | CS | -24-6 | Y | 1,2,3 | 018 | 1 |
| 61 | 8 | Frontline TRM | M33SIL*MV8812A | "A" RHR PUMP SUCTION FROM RWST | LPI | ES | 8 | Y | 1,2,3 | 022 | |
| 62 | 8 | Frontline SFRM | M33SIH*MV8801A | CHARGING PUMP SI HEADER ISOL | HPI | AB | 18 | Y | 2,3,4,5 | 004 | |
| 63 | 9 | Support | M33HVP*FN1B | EMERGENCY GENERATOR BUILDING SUPPLY FAN | DGV | DG | 44 | Y | 1,2,3,4,5 | 021 | 2,3 |
| 64 | 9 | Support | M33HVR*FN13A | CHARGING PUMP EXHAUST FAN | RBV | AB | 66 | Y | 1,2,3 | 006 | 2,3 |
| 65 | 9 | Support | M33HVR*FN14A | CHRG & CMPNT COOLING PUMP SUPPLY FAN | RBV | AB | 74 | Y | 1,2,3 | 006 | 2,3 |
| 66 | 9 | Support | M33HVR*FN10B1 | FUEL BLDG EXHAUST FAN | RBV | AB | 66 | N | 1,2,3,4,5 | 031 | 2,3 |
| 67 | 10 | Support | M33HVC*ACU1B | CONTROL ROOM A/C UNIT SPLY | ACC | CB | 64 | N | 1,2,3,4,5 | 012 | 2 |
| 68 | 10 | Support | M33HVQ*ACUS1A | ESF SELF-CONTAINED AIR CONDITIONING UNIT | ESG | ES | 36-6 | N | 1,2,3,4,5 | 024 | 2,3 |
| 69 | 11 | Support | M33HVK*CHL1B | CONTROL BLDG WATER CHILLER | CBW | CB | 64 | N | 1,2,3,4,5 | 012 | 2,3 |
| 70 | 14 | Support | M33BYS*PNL2V | 125 VDC BATTERY DISTRIBUTION PANEL | EDC | CB | 4 | Y | 1,2,3,4,5 | 008 | 2,3 |
| 71 | 14 | Support | M33SCV*PNLR1O | 120 VOLT VITAL PANEL | EVI | CB | 4-6 | Y | 1,2,3,4,5 | 010 | 2,3 |
| 72 | 14 | Support | M33CES*PNLTSB | B TRAIN TRANSFER SWITCH PANEL | ELC | CB | 4-6 | N | 1,2,3,4,5 | 008 | 1,2,3 |
| 73 | 15 | Support | M3301B-2 | BATTERY 4 (301B-2) | EDC | CB | 4 | N | 1,2,3,4,5 | 009 | 2,3 |
| 74 | 15 | Support | M3301B-1 | BATTERY 2 (301B-1) | EDC | CB | 4 | Y | 1,2,3,4,5 | 009 | 2,3 |
| 75 | 16 | Support | M33BYS*CHGR-1 | BATTERY CHARGER 1 (301A-1) | EDC | CB | 4 | N | 1,2,3,4,5 | 010 | 1,2,3 |
| 76 | 16 | Support | M33BYS*CHGR-3 | BATTERY CHARGER 3 (301A-2) | EDC | CB | 4 | N | 1,2,3,4,5 | 010 | 1,2,3 |

## Seismic Walkdown Equipment List (SWEL)

| Item # | Class | SGCS Function Reference | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | 5 Safety Functions | Area Walkby | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | 16 | Support | M33VBA*INV1 | INVERTER 1 | EDC | CB | 4-6 | Y | 1,2,3,4,5 | 010 | 1,2,3 |
| 78 | 16 | Support | M33VBA*INV3 | INVERTER 3 | EDC | CB | 4 | Y | 1,2,3,4,5 | 010 | 1,2,3 |
| 79 | 17 | Support | M33EGS*EGB | EMERGENCY DIESEL GENERATOR (B) | DGN | DG | 24 | Y | 1,2,3,4,5 | 020 | 2 |
| 80 | 18 | Support | M33CES*IPNLI01 | INSTRUMENT PANEL - ORANGE | BOP | CB | 47 | N | 1,2,3,4,5 | 011 | 2,3 |
| 81 | 18 | Support | M33CES*IPNLI20 | INSTRUMENT PANEL-ORANGE | BOP | CB | 43-6 | N | 1,2,3,4,5 | 011 | 2,3 |
| 82 | 20 | Support | M33CHS*ZT190B | CHG HDR FLOW CNTRL VLV 3CHS*HCV190B ELEC CNTR MOD | CVC | AB | 24 | N | 1,2,3,4,5 | 013 | 1,2,3 |
| 83 | 18 | Support | M33RPS*RAKSET1 | REACTOR PROTECTION SYSTEM RACK SET 1 | RPS | CB | 47 | N | 1,2,3,4,5 | 011 | 2,3 |
| 84 | 18 | Support | M33RPS*RAKSET3 | REACTOR PROTECTION SYSTEM INSTRUMENTATION RACK | RPS | CB | 47 | N | 1,2,3,4,5 | 011 | 2,3 |
| 85 | 18 | Support | M33RPS*RAKSET5 | REACTOR PROTECTION RACK SET 5 | RPS | CB | 47 | N | 1,2,3,4,5 | 011 | 2,3 |
| 86 | 20 | Support | M33CES*MCB-MB1 | MAIN BOARD 1 | MCB | CB | 47 | N | 1,2,3,4,5 | 011 | 2,3 |
| 87 | 20 | Support | M33CES*MCB-MB3 | MAIN CONTROL BOARD | MCB | CB | 47 | N | 1,2,3,4,5 | 011 | 2,3 |
| 88 | 20 | Support | M33CES*MCB-MB5 | MAIN BOARD 5 | MCB | CB | 47 | N | 1,2,3,4,5 | 011 | 2,3 |
| 89 | 20 | Support | M33CES*PNLFTSP | FIRE TRANSFER PANEL SWITCH | ELC | CB | 4-6 | N | 1,2,3,4,5 | 010 | 2,3 |
| 90 | 20 | Support | M33RPS*PNLAS | AUXILIARY SHUTDOWN PANEL | ESA | CB | 4 | N | 1,2,3,4,5 | 008 | 2,3 |
| 91 | 21 | Support | M33CCP*E1A | RPCCW HEAT EXCHANGER A | CCR | AB | 24 | Y | 1,2,3,4,5 | 001 | 2,3 |
| 92 | 21 | Frontline SFRM | M33CHS*E4 | SEAL WATER HEAT EXCHANGER | CVC | AB | 24 | N | 1,2,3 | 001 | 2,3 |
| 93 | 21 | Frontline TRM | M33CHS*TK5A | A BORIC ACID TANK | CVC | AB | 43 | Y | 1,2,3 | 005 | 2,3 |
| 94 | 21 | Support | M33EGA*TK1B | DIESEL START AIR RECIEVER TANK | DSA | DG | 24 | Y | 1,2,3,4,5 | 020 | 2,3 |
| 95 | 21 | Support | M33EGF*TK2B | EMERGENCY GEN FUEL OIL DAY TANK | DFS | DG | 37-6 | Y | 1,2,3,4,5 | 021 | 2,3 |
| 96 | 21 | Frontline TRM | M33FWA*TK1 | DEMIN WATER STORAGE TANK | AFW | YD | 24 | Y | 2,4, | 028 | 2,3 |
| 97 | 21 | Support | M33HVK*E1B | HEAT EXCHANGER FOR CONTROL BUILDING WATER CHILLER | CBW | CB | 64 | N | 1,2,3,4,5 | 012 | 2,3 |

| Seismic Walkdown Equipment List (SWEL) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item # | Class | SGCS Function Reference | ID | Equipment Description | System | Bldg | Elev | Risk Significant (Y/N) | 5 Safety Functions | Area Walkby | Notes |
| 98 | 21 | Support | M33CCE*TK1 | CCE SURGE TANK | CCE | AB | 43 | Y | 1,2,3,4 | 032 | 2,3 |
| 99 | 21 | Frontline TRM | M33RHS*E1A | RESIDUAL HEAT EXCHANGER | RHR | ES | 4-6 | Y | 4 | 022 | 2,3 |
| 100 | 21 | Support | M33SFC*E1A | SPENT FUEL POOL COOLER | SFC | FB | 24 | N | 4 | 028 | 2,3,4 |

Notes:
1. Not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible.
2. Has anchorage
3. Detailed anchorage inspection
4. SWEL 2 item, all other items SWEL 1

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

## 2. Base List 2 / SWEL 2

| LOCAL_ID | Equipment Description | SWEL 2 |
|---|---|---|
| M31A-3SFC*P1A | FUEL POOL COOLING PUMP P1A REMOTE CONTROL SWITCH | |
| M31A-3SFC*P1B | FUEL POOL COOLING PUMP P1B REMOTE CONTROL SWITCH | |
| M31B-3SFC*P1A | FUEL POOL COOLING PUMP P1A LOCAL CONTROL SWITCH | |
| M31B-3SFC*P1B | FUEL POOL COOLING PUMP P1B LOCAL CONTROL SWITCH | |
| M33SFC*E1A | SPENT FUEL POOL COOLER | X |
| M33SFC*E1B | SPENT FUEL POOL COOLER | |
| M33SFC*LS25A | FUEL POOL LOW WATER LEVEL ALARM SWITCH | |
| M33SFC*LS25B | FUEL POOL LOW WATER LEVEL ALARM SWITCH | |
| M33SFC*P1A | FUEL POOL COOLING PUMP A | X |
| M33SFC*P1B | FUEL POOL COOLING PUMP B | |
| M33SFC*TE27A | FUEL POOL WATER TEMP IND, ELEMENT | |
| M33SFC*TE27B | FUEL POOL WATER TEMP IND, ELEMENT | |
| M33SFC-FT19 | FUEL POOL COOLERS RETURN FLOW FLOW TRANSMITTER | |
| M33SFC-PI29A | PRESSURE GAUGE | |
| M33SFC-PI29B | PRESSURE GAUGE | |
| M33SFC-PT36 | FUEL POOL COOLING PMPS DISCHARGE PRESSURE TRANSMITTER | |
| M343-3SFC*P1A | LOCAL/REMOTE CONTROL TRANSFER SWITCH | |
| M343-3SFC*P1B | LOCAL/REMOTE CONTROL TRANSFER SWITCH | |

## 3. Summary Tables: Equipment Classes and Systems

**SWEL Equipment Classes Summary Table**

| GIP Equipment Class | Class Title | Equipment Count |
|---|---|---|
| 0 | Miscellaneous | 3 |
| 1 | Motor Control Centers | 7 |
| 2 | Low Voltage Switchgear | 3 |
| 3 | Medium Voltage Switchgear | 4 |
| 4 | Transformers | 4 |
| 5 | Horizontal Pumps | 8 |
| 6 | Vertical Pumps | 2 |
| 7 | Fluid Operated Valves | 10 |
| 8 | Motor Operated Valves, Solenoid Operated Valves | 19 |
| 9 | Fans | 4 |
| 10 | Air Handlers | 2 |
| 11 | Chillers | 1 |
| 12 | Air Compressors | 0 |
| 13 | Motor Generators | 0 |
| 14 | Distribution Panels | 3 |
| 15 | Batteries on Racks | 2 |
| 16 | Battery Chargers and Inverters | 4 |
| 17 | Engine Generators | 1 |
| 18 | Instruments on Racks | 5 |
| 19 | Temperature Sensors | 0 |
| 20 | Instrumentation and Control Panels and Racks | 8 |
| 21 | Tanks and Heat Exchangers (GIP Section 7) | 10 |
| | TOTAL | 100 |

**SWEL System Summary**

| Local System | System Description | Equipment Count |
|---|---|---|
| 3301 | Reactor Coolant | 2 |
| 3305 | Spent Fuel Pool Cooling and Purification | 2 |
| 3308 | High Pressure Safety Injection | 1 |
| 3322 | Auxiliary Feedwater | 8 |
| 3326 | Service Water | 4 |
| 3343 | Station Electrical 4160V | 3* |
| 3411 | Auxiliary Shutdown Panel | 1 |
| 3414 | Main Control Panels | 3 |
| 3415 | Control Circuit Isolator Cabinets | 2 |
| 3304A | Charging and Volume Control | 14 |
| 3304C | Boric Acid | 2 |
| 3307A | Low Pressure Safety Injection | 2 |
| 3307B | Residual Heat Removal | 6 |
| 3314A | Auxiliary Building HVAC | 2 |
| 3314C | Fuel Building HVAC | 3 |
| 3314D | ESF Building HVAC | 1 |
| 3314F | Control Building HVAC and Chilled Water | 3 |
| 3314H | EDG Building HVAC | 1 |
| 3316A | Main Steam Reliefs | 5 |
| 3330A | Reactor Plant Component Cooling Water | 2 |
| 3330D | Charging Pumps Cooling | 2 |
| 3344A | 480V Load Centers | 1 |
| 3344B | 480V Motor Control Centers | 7 |
| 3345A | 120VAC Distribution | 3 |
| 3345B | 120VAC Vital Electrical | 3 |
| 3345C | 125VDC Distribution | 7 |
| 3346A | Emergency Diesel Generator | 3 |
| 3346B | Emergency Diesel Generator Fuel Oil | 1 |
| 3407A | Westinghouse 7300 Racks | 3 |
| 3407B | Foxboro Spec 200 Racks | 2 |
| 3720B | Emergency Station Lighting | 1 |
| | TOTAL | 100 |

* Includes 4160V CHS & CCP Pump Transfer Switches3305

# Appendix B.3

# Area Walk-by List

| Area Walk-by List | | |
|---|---|---|
| **MP3 AWC** | **MP2 Plant Area Description** | **SWEL Item Count** |
| MP3-WB-001 | Aux Bldg 24' Misc Mech | 4 |
| MP3-WB-002 | Aux Bldg 24' MCC Rod Control East | 4 |
| MP3-WB-003 | Aux Bldg 24' Chrg Pump Cubicles | 4 |
| MP3-WB-004 | Aux Bldg 4'6" Penetration Area | 6 |
| MP3-WB-005 | Aux Bldg 43' Fans | 2 |
| MP3-WB-006 | Aux Bldg 66' | 2 |
| MP3-WB-007 | Aux Bldg 43' 'A' BAST Room | 0 |
| MP3-WB-008 | Control Bldg 4'6" West Switchgear | 7 |
| MP3-WB-009 | Control Bldg 4'6" Batteries | 3 |
| MP3-WB-010 | Control Bldg 4'6" East Switchgear | 7 |
| MP3-WB-011 | Control Bldg 47' Panels | 8 |
| MP3-WB-012 | Control Bldg 64' HVAC | 4 |
| MP3-WB-013 | Aux Bldg 24'6" MCC Rod Control West | 5 |
| MP3-WB-014 | Aux Bldg 46' MCC Rod Control West | 1 |
| MP3-WB-015 | Aux Bldg 46' MCC Rod Control East | 1 |
| MP3-WB-016* | Containment 76' | 1 |
| MP3-WB-017* | Containment 3'8" Seal Return | 2 |
| MP3-WB-018* | Containment -24' Accum A | 1 |
| MP3-WB-019 | CW Pump House (Service Water) | 3 |
| MP3-WB-020 | A EDG Equipment 24' | 4 |
| MP3-WB-021 | EDG Enclosure Ventil and Day Tank 37' | 2 |
| MP3-WB-022 | ESF Bldg RHR Pump 4' | 5 |
| MP3-WB-023 | ESF Bldg AFW PuMP21' | 6 |
| MP3-WB-024 | ESF Bldg Ventilation & Misc 36' | 3 |
| MP3-WB-025 | ESF Bldg RHR Penetrations 15' B Room | 2 |
| MP3-WB-026 | Fuel Bldg Spent Fuel Cooling 24' | 1 |
| MP3-WB-027 | Main Steam Valve Bldg 66' | 4 |
| MP3-WB-028 | Yard 24' | 2 |
| MP3-WB-029 | AB 43' VCT Room | 1 |
| MP3-WB-030 | AB 43' B BAST Room | 1 |
| MP3-WB-031 | AB 66' Fuel Building Exh Fan Area | 3 |
| MP3-WB-032 | AB 43' 3CCE*TK1 Area | 1 |

* Area walk-by deferred. Associated SWEL items inaccessible during normal plant operations.

# Appendix C

# Seismic Walkdown Checklists

(153 pages)

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-001

**AWC #** MP3-WB-019 Status Y☒ N☐ U☐

Equipment ID No. *M33SWP*STR1A* Equip. Class 0

Equipment Description *Service Water Pump Strainer "A"*

Location: Bldg. *CW* Floor El. *14'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Anchorage of strainer support columns to floor are acceptable and are consistent with design drawings. Anchorage of strainer to support columns is acceptable but bolt size could not be confirmed with design drawings. Some bolts have nuts with very little or no thread protruding (flush). These are evaluated and found to be acceptable.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-001

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*References: Drawing No. 2332.516-063-003*
*Drawing No. 12179-EC-14M-9*
*Calculation No. 12179-C14.2 (Partial)*
*Drawing No. 12179-EM-8A*

Evaluated by: *James Petrosky* Date: *08-06-2012*

Evaluated by: *L. Jack DiLuna* Date: *08-06-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-009

**AWC #** MP3-WB-013 Status Y☒ N☐ U☐

Equipment ID No. *3RCS*ZT442B* Equip. Class 20

Equipment Description *Reactor Vessel Vent Valve 3RCS*HCV 442B Position XMTR*

Location: Bldg. *AB* Floor El. *24'* Room, Area *MCC Rod Control West*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference DWG 2512-33088 (EE-38ZC).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-009

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Flex Conduit and cables from adjacent seismic cable tray.*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *Overhead cable trays seismically supported.*

---

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James Petrosky* Date: *08/22/2012*

Evaluated by: *Thomas Steahr* Date: *08/22/2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-010

**AWC #** MP3-WB-013 Status Y☒ N☐ U☐

Equipment ID No. *M33SIL*ZT943B* Equip. Class 20

Equipment Description *SI Tank N2 Vent Valve Position Transmitter (3SIL*HCV943B)*

Location: Bldg. *AB* Floor El. *24'* Room, Area *MCC Rod Control West*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference DWG 2512-33088 (EE-38ZC)* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-010**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Flexible Conduit*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *No adverse interactions found*

---

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

---

**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James Petrosky* Date: *08/22/2012*

Evaluated by: *James McKinney* Date: *08/22/2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-014

**AWC #** MP3-WB-020 Status Y☒ N☐ U☐

Equipment ID No. M315G-15U Equip. Class 3

Equipment Description *Diesel Generator 'B' Electrical System*

Location: Bldg. *DG* Floor El. *24''* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-014

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

---

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*'A' train protected at time of walkdown.*

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Evaluated by: *Stephen Superson* Date: *08-13-2012*

Evaluated by: *William Price* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-015

**AWC #** MP3-WD-008 Status Y☒ N☐ U☐

Equipment ID No. 3ENS*SWGB Equip. Class 3

Equipment Description *B 4.16KV Energency SWGR*

Location: Bldg. *CB* Floor El. *4'6"* Room, Area *West SWGR*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference: Calculation C10.8 and Drawing 25212-39010 SH. 422* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-015**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*The 3CHS*P3C section of 3ENS*SWGB (Bus 34D) was selected for inspection. The circuit breaker was removed to facilitate visual inspection of the high voltage switchgear. Electrical maintenance support was utilized to open the front panel door and remove the rear panel door for inspection.*

Evaluated by: *James Petrosky* Date: *08/17/2012*

Evaluated by: *James McKinney* Date: *08/17/2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-016

**AWC #** MP3-WD-014 Status Y☒ N☐ U☐

Equipment ID No. 3CCP*TRS-P1C Equip. Class 3

Equipment Description *34C10-2 Transfer Switch to 34D9-6 Reactor Cooling Pump 3CCP*P1C*

Location: Bldg. *AB* Floor El. *45'* Room, Area *45' MCC Rod Drive West*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing 25212-33021* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-016

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Flex conduit connections*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *No adverse seismic interactions*

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*3CCP*TRS-P1C is comprised of 2 switches in one cabinet: 3CCP*TRS-P1C/1 and 3CCP*TRS-P1C/2.*

Evaluated by: *James Petrosky* Date: *08/17/2012*

Evaluated by: *James McKinney* Date: *08/17/2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-017

**AWC #** MP3-WD-015 Status Y☒ N☐ U☐

Equipment ID No. 3CHS*TRS-P3C Equip. Class 3

Equipment Description *34D21-2/34C22-2 Transfer Switch to 3CHS*P3C*

Location: Bldg. *AB* Floor El. *45'* Room, Area *45' East MCC Rod Drive*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing 25212-33021* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-017

---

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Flex conduit connections*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *No adverse seismic interactions*

---

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*3CHS*TRS-P3C is comprised of 2 switches in one cabinet: 3CHS*TRS-P3C/1 and 3CHS*TRS-P3C/2.*

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Evaluated by: *James Petrosky* Date: *08/17/2012*

Evaluated by: *James McKinney* Date: *08/17/2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-018

**AWC #** MP3-WB-031 Status Y☒ N☐ U☐

Equipment ID No. 3HVR*MOD72B Equip. Class 0

Equipment Description *Fuel Bldg Filter Exhaust Fan Outlet Damper*

Location: Bldg. *AB* Floor El. *66* Room, Area *3HVR FN*6B Area Overhead*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *Motor operated damper is not anchored. Damper (with attached linkage, limit switches, and operator) is an in-line component in seismically supported ductwork.*

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-018**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Overhead lighting secured on chains.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Flexible conduit connections*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *No adverse interactions.*

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08/22/2012*

Evaluated by: *Thomas Steahr* Date: *08/22/2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-019

**AWC #** MP3-WB-031 Status Y☒ N☐ U☐

Equipment ID No. 3HVR*MOD72A Equip. Class 0

Equipment Description *Fuel Bldg Filter Exhaust Fan Outlet Damper*

Location: Bldg. *AB* Floor El. *66'* Room, Area *3HVR FN*6A Area Overhead*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *Motor operated damper is not anchored. Damper (with attached linkage, limit switches, and operator) is an in-line component in seismically supported ductwork.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-019

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Mod is high in overhead, above the lights.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Flex conduit connections*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08/22/2012*

Evaluated by: *Thomas Steahr* Date: *08/22/2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-024

**AWC #** MP3-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M33CCE*P1A Equip. Class 5

Equipment Description *"A" Charging Pump Cooling Pump*

Location: Bldg. *AB* Floor El. *24* Room, Area *"A" Charging Pump Cubicle*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Reference: Drawing No. 25212-11134 (Rev. 7)*
   *Drawing No. 25212-29042 SH. 1 (Rev. 3)*
   *Calculation No. 12179-C36.6 (Rev. 0)*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-024

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Thomas Steahr* Date: *08-07-2012*

Evaluated by: *Stephen F. Superson* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3 -WD-SWEL-025

**AWC #** MP3-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M33CCP*P1A Equip. Class 5

Equipment Description *RBCCW Pump A*

Location: Bldg. *AB* Floor El. *24* Room, Area *HT EXCH*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Reference: Drawing No. 25212-11134 Rev. 7*
   *Drawing No. 25212-29336 SH 3 Rev. J*
   *Calculation No. 12179-SEO-C36.24 Rev. 01 including CCN 001*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3 -WD-SWEL-025

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Thomas Steahr* Date: *08-07-2012*

Evaluated by: *Stephen F. Superson* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-026

**AWC #** MP3-WB-003 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*P3A Equip. Class 5

Equipment Description *"A" Charging Pump*

Location: Bldg. *AB* Floor El. *24* Room, Area *"A" Charging Pump Cubicle*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing No. 12179-EC-36F-9 and Drawing No. 12179-EC-36G-7* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-026

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James Mc Kinney Date: *08-08-2012*

Evaluated by: *William Price* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-027

**AWC #** MP3-WB-023 Status Y☒ N☐ U☐

Equipment ID No. M33FWA*P1A Equip. Class 5

Equipment Description *Motor Driven Steam Generator Aux Feed Pump*

Location: Bldg. *ES* Floor El. *21'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐
   *Hairline cracks from top of pad to edge of chamfer for two of six anchor bolts.*

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Reference: Calculation No. C32-298, Rev. 0 and Drawing No. 25212-29041 Sht. 6*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-027

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *William Price* Date: *08-07-2012*

Evaluated by: *James McKinney* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-028

**AWC #** MP3-WB-023 Status Y☒ N☐ U☐

Equipment ID No. M33FWA*P2 Equip. Class 5

Equipment Description *Turbine Driven Aux Feed Pump*

Location: Bldg. *ES* Floor El. *21'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *References: Calculation No. 12179-C32.299*
   *Drawing No. 25212-11215, Rev. 6*
   *Drawing No. 25212-29041 Sheet 1, Rev. J*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-028

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Stephen F.Superson* Date: *08-13-2012*

Evaluated by: *William Price* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-029

**AWC #** MP3-WB-026 Status Y☒ N☐ U☐

Equipment ID No. M33SFC*P1A Equip. Class 5

Equipment Description *Fuel Pool Cooling Pump 'A'*

Location: Bldg. *FB* Floor El. *24'-6"* Room, Area

Manufacturer, Model, Etc. (optional but recommended) *Gould Model 3405 size 10x12-12*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-029

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Overhead fluorescent light fixtures were reviewed and are adequately restrained by chain with secured s-hooks, therefore no adverse interaction concerns.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
    *Wrenches are stored in a support beside the A SFP cooling pump. They are not secured but are close to the floor and do not provide a seismic interaction concern.*

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-029

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**Comments** (continuation page)

*Reference: 2214.702-006-001E, 12179-EC-38C-6, 12179-EM-7B, 12179-EC-738B-7, 12179-EP-77B, 12179-EM-7A, Calc. 12179-C38.735 (partial).*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-030

**AWC #** MP3-WB-012 Status Y☒ N☐ U☐

Equipment ID No. M33SWP*P2B Equip. Class 5

Equipment Description *Control BLDG AC Booster Pump 'B'*

Location: Bldg. *CB* Floor El. *64'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Reference: Drawing 2332-502-042-009*
   *Calculation No. 12179-C10.3 Rev. 0*
   *S&W Drawing No. 12179-EB-39H*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-030**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*Light Surface rust on one of the bolt head.*

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Evaluated by: *Sombat Pornprasert* Date: *08-13-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-013-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-031

**AWC #** MP3-WB-005 Status Y☒ N☐ U☐

Equipment ID No. M33SWP*P3A Equip. Class 5

Equipment Description *MCC and Rod Control Area Booster Pump A*

Location: Bldg. *AB* Floor El. *43'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *See Drawing No. 25212-11134, Rev. 7* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-031

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Thomas Steahr* Date: *08-08-2012*

Evaluated by: *Stephen F. Superson* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-032

**AWC #** MP3-WB-022 Status Y☒ N☐ U☐

Equipment ID No. M33RHS*P1A Equip. Class 6

Equipment Description *Residual Heat Removal Pump*

Location: Bldg. *ES* Floor El. *4'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference: Drawing No. 25212-22214 Nd Drawing No. 25212-11518* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-032

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light Fixtures are suspended by chain with secured S-hooks, fixtures and bulbs will not pose any threat to RHR pump A.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
    *See AWC# Mp3-WB-022 for general housekeeping issues none of which adversely affect the RHR A pump/*

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-08-2012*

Evaluated by: *L.Jack DiLuna* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-033

**AWC #** MP3-WB-019 Status Y☒ N☐ U☐

Equipment ID No. M33SWP*P1A Equip. Class 6

Equipment Description *Service Water Pump*

Location: Bldg. *CW* Floor El. *14'* Room, Area *SW A*

Manufacturer, Model, Etc. (optional but recommended) *Hayward Tyler 24VSN Vertical Single Stage Pump*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   *Surface corrosion on motor to pump flange bolts, (seismically acceptable) no further action required. This is evaluated and found to be minor surface corrosion.*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-033

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Overhead chain-hung light (not directly above pump) is free to swing at end of chain and may interact with seismically supported duct work with no adverse effects. Potentially falling light may interact with seismically supported tubing and transmitters and is evaluated to have no adverse effects.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*Anchorage Reference: Drawing No.12179-EC-14L-8*
*Drawing No. 12179-EM-8A*
*Drawing No. 2332.502-004-011.*

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Evaluated by: *James Petrosky* Date: *08-06-2012*

Evaluated by: *Jack DiLuna* Date: *08-06-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-034

**AWC #** MP3-WB-003 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*HVC182 Equip. Class 7

Equipment Description *RCP Seal Water Flow Controller*

Location: Bldg. *AB* Floor El. *24'6"* Room, Area *"C" Charging Pump Cubicle*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage, therefore OK.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-034

**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? *3DGS-V876 to valve OK, based on valve (3) way support in close proximity.* | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James McKinney Date: *08-08-2012*

Evaluated by: *William Price* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3WD-SWEL-036

**AWC #** MP3-WB-023 Status Y☒ N☐ U☐

Equipment ID No. M33FWA*AOV62A Equip. Class 7

Equipment Description *'A' Train Discharge Cross Connect*

Location: Bldg. *ES* Floor El. _____ Room, Area _____

Manufacturer, Model, Etc. (optional but recommended) _____

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage therefore OK.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3WD-SWEL-036

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *William Price* Date: *08-07-2012*

Evaluated by: *James McKinney* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-037

**AWC #** MP3-WB-023 Status Y☒ N☐ U☐

Equipment ID No. M33MSS*AOV31A Equip. Class 7

Equipment Description *Terry Turbine Steam Isolation From a S/G*

Location: Bldg. *ES* Floor El. *25'* Room, Area *Cube south of Terry Turbine*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-037

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*In-line mounted valve.*

Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-13-2012*

Evaluated by: *William Price* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-038

**AWC #** MP3-WB-027 Status Y☒ N☐ U☐

Equipment ID No. M33MSS*CTV27A Equip. Class 7

Equipment Description *Main Steam Isolation Trip Valve*

Location: Bldg. *MS* Floor El. *66'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line component.*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-038

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Overhead fluorescent light fixtures were reviewed and are adequately restrained by chain with secured S-hooks. Therefore no adverse interaction concerns exist.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*References :Drawing No. 12179-C.I.-MSS-33 Sheet 3 of 7*
*Drawing No. 12179-EP-2D-12*
*Drawing No. 12179-EP-2G-11*
*Drawing No. 12179-C.I.-MSS-24 Sheet 2of 2*

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Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *L. Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-039

**AWC #** MP3-WB-027 Status Y☒ N☐ U☐

Equipment ID No. M33MSS*RV22A Equip. Class 7

Equipment Description *A Steam Generator Safety Valve*

Location: Bldg. *MS* Floor El. *76'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line component (valve).*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-039

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Overhead fluorescent light fixtures were reviewed and are adequately restrained by chain with secured S-hooks, therefore no adverse interaction concerns.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*References: Drawing No. 12179-C.I.-MSS-33 Sht. 3 of 7*
*Drawing No. 12179-EP-2G-11*
*Drawing No. 12179-EP-2D-12*
*Drawing No.12179-2472.110-180-255*

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Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *L. Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-040

**AWC #** MP3-WB-027 Status Y☒ N☐ U☐

Equipment ID No. M33MSS*RV23C Equip. Class 7

Equipment Description *C Steam Generator Safety Valve*

Location: Bldg. *MS* Floor El. *76'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line Component (valve)*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-040

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Overhead fluorescent light fixtures were reviewed and are adequately restrained by chain with secured S-hooks, therefore no adverse interaction concerns.*

*References: Drawing No. 1279-EP-2D-12*
*Drawing No. 12179-EP-2G-11*
*Drawing No. 12179-C.I.-MSS-33 Sht. 4 of 7*

Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *L. Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-042

**AWC #** MP3-WB-025 Status Y☒ N☐ U☐

Equipment ID No. *M33RHS*FCV619* Equip. Class 7

Equipment Description *Residual Heat Removal B HX Total Flow CNTL*

Location: Bldg. *ES* Floor El. *21'-6"* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line air operated valve, no anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-042

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   *Copper air lines are soft targets, no interactions in vicinity.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Fluorescent light are hung using closed S-hooks and are properly supported.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-14-2012*

Evaluated by: *James McKinney* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-043

**AWC #** MP3-WB-004 Status Y☒ N☐ U☐

Equipment ID No. *M33CHS*CV8152* Equip. Class 7

Equipment Description *Letdown heat exchanger E2 outer CTMT isolation*

Location: Bldg. *AB* Floor El. *4'-6"* Room, Area *MEZZ*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line valve, no arrangement.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-043

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
*Surface corrosion present on bottom surface of yoke, however studs and bolts are okay.*

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James McKinney Date: *08-16-2012*

Evaluated by: *James Petrosky* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3WD-SWEL-044

**AWC #** MP3-WB-004 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*HCV190A Equip. Class 8

Equipment Description *Charging Header Flow Control*

Location: Bldg. *AB* Floor El. *4'-6"* Room, Area *CTMT Pipe Penetration*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC # MP3WD-SWEL-044**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James Mc Kinney Date: *08-08-2012*

Evaluated by: *William Price* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-045

**AWC #** MP3-WB-029 Status Y☒ N☐ U☐

Equipment ID No. *M33CHS*LCV112B* Equip. Class 8

Equipment Description *VCT Outlet Isolation*

Location: Bldg. *AB* Floor El. *45'6"* Room, Area *VCT*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line MOV, no anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-045

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Grating overhead and light bulb with protective cover found to be adequate.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James Petrosky* Date: *08-14-2012*

Evaluated by: *James McKinney* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-046

**AWC #** MP3-WB-004 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*MV8105 Equip. Class 8

Equipment Description *Charging Header Isolation*

Location: Bldg. *AB* Floor El. *4'-6"* Room, Area *Mezzanine Penet #16*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-046

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James McKinney* James Mc Kinney Date: *08-08-2012*

Evaluated by: *William Price* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-047

**AWC #** MP3-WB-004 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*MV8109D Equip. Class 8

Equipment Description *RCP 'D' Seal Supply Isolation*

Location: Bldg. *AB* Floor El. *4'-6"* Room, Area *Mezzanine Penet #16*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-047

**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James Mc Kinney Date: *08-08-2012*

Evaluated by: *William Price* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-048

**AWC #** MP3-WB-003 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*MV8110 Equip. Class 8

Equipment Description *Charging Recirc Isol to Seal Water*

Location: Bldg. *AB* Floor El. *24'6"* Room, Area *Charging Pump Room "A"*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage therefore OK.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-048

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James McKinney Date: *08-08-2012*

Evaluated by: *William Price* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-050

**AWC #** MP3-WB-004 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*MV8116 Equip. Class 8

Equipment Description *Safety Grade S/D Charging Isol*

Location: Bldg. *AB* Floor El. *7'* Room, Area *Mezzanine Pen*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   *Boric acid evident between stem and packing. Already being tracked via CR417270 and CR470400, as well as MP-24-BACC-FAP03-001 Boric Acid Corrosion Evaluation.*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Operator has tube steel box frame. Support mark # CP-374524-H014 welded to floor embedded plate (ref. Drawing No. 12179-BZ-74S-256-1 ad Drawing No. 12179-CP-374524, Rev. 3)*
   *CR484242 initiated under the Area Walk-by Checklist No. MP3-WB-004 for moderate corrosion.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-050

**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James McKinney Date: *08-08-2012*

Evaluated by: *William Price* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-051

**AWC #** MP3-WB-003 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*MV8438A Equip. Class 8

Equipment Description *Charging Pump A/C Discharge Isol*

Location: Bldg. *AB* Floor El. *24'6"* Room, Area *Charging Pump Room "A"*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage, therefore okay.*

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-051**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James McKinney* James Mc Kinney Date: *08-08-2012*

Evaluated by: *William Price* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-052

**AWC #** MP3-WB-007 Status Y☒ N☐ U☐

Equipment ID No. *M33CHS*MV 8507B* Equip. Class 8

Equipment Description *BAT B Gravity Boration*

Location: Bldg. *AB* Floor El. *49'6"* Room, Area *BAT (B)*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line valve, no anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-052

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐
   *Overhead piping (4" line) adequately supported to preclude interaction.*

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James Petrosky* Date: *08-14-2012*

Evaluated by: *James McKinney* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3WD-SWEL-053

**AWC #** MP3-WB-023 Status Y☒ N☐ U☐

Equipment ID No. M33FWA*HV31A Equip. Class 8

Equipment Description *Auxiliary Feedwater Control Valve*

Location: Bldg. *ES* Floor El. *24'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *No anchorage therefore OK.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3WD-SWEL-053

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *William Price* Date: *08-07-2012*

Evaluated by: *James McKinney* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-054

**AWC #** MP3-WB-023 Status Y☒ N☐ U☐

Equipment ID No. M33FWA*HV32A Equip. Class 8

Equipment Description *Turbine Driven Auxiliary Feedwater Control Valve*

Location: Bldg. *ES* Floor El. *21'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-054

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*In-line Mounted Valve*

Evaluated by: *Stephen Superson* Date: *08-13-2012*

Evaluated by: *William Price* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-055

**AWC #** MP3-WB-023 Status Y☒ N☐ U☐

Equipment ID No. M33FWA*HV32D Equip. Class 8

Equipment Description *Turbine Driven Auxiliary Feedwater Control Valve*

Location: Bldg. *ES* Floor El. *21'* Room, Area *Terry Turbine Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line valve, no anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-055

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Fluorescent lights are OK. Fire detector is OK.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *Rope, tool bucket and coiled power cable have no seismic interaction impact.*

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

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Evaluated by: *James Petrosky* Date: *08-14-2012*

Evaluated by: *James McKinney* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-056

**AWC #** MP3-WB-024 Status Y☒ N☐ U☐

Equipment ID No. M33FWA*MOV35A Equip. Class 8

Equipment Description *Steam Generator Auxilary FDW IsolationValve*

Location: Bldg. *ES* Floor El. *40'* Room, Area *A/CRHR HX Cubicle*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-056

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

---

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*In-line mounted valve.*

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Evaluated by: *Stephen Superson* Date: *08-13-2012*

Evaluated by: *William Price* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-057

**AWC #** MP3-WB-027 Status Y☒ N☐ U☐

Equipment ID No. M33MSS*MOV74A Equip. Class 8

Equipment Description *Main Steam Pressure Relief Isolation Valve Bypass*

Location: Bldg. *MS* Floor El. *68'* Room, Area *Off MS line A*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line component (valve).*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-057

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Overhead fluorescent Light fixtures were reviewed and adequately restrained by chain with secured S-hooks, therefore no adverse interaction concerns.*

*References: Drawing No. 121790C.I.-MSS 29, Sht. 2 of 2*
*Drawing No.12179-EP-2D-12*
*Drawing No. 12179-EP-2G-11*

Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *L. Jack DiLuna* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-058

**AWC #** MP3-WB-022 Status Y☒ N☐ U☐

Equipment ID No. M33RHS*FCV610 Equip. Class 8

Equipment Description *Residual Heat Removal Pump P1A Miniflow Recirc*

Location: Bldg. *ES* Floor El. *4'* Room, Area *(A)RHR Pump*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line component (valve).*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-058

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light fixtures are suspended by chain with secured S-hook, fixture and fluorescent bulbs will not pose any adverse seismic interaction.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Reference: Drawing No. 12179-CP-371500 Sht. 3 of 3*

Evaluated by: *James Petrosky* Date: *08-08-2012*

Evaluated by: *L.Jack DiLuna* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-059

**AWC #** MP3-WB-025 Status Y☒ N☐ U☐

Equipment ID No. *M33RHS*MV8716B* Equip. Class 8

Equipment Description *'B' RHR Discharge to Hot Legs and RWST*

Location: Bldg. *ES* Floor El. *21'* Room, Area *RHR B CUB*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line MOV, no anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-059**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Fluorescent lighting fixture properly restrained.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*none*

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Evaluated by: *James Petrosky* Date: *08-14-2012*

Evaluated by: *James McKinney* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-061

**AWC #** MP3-WB-022 Status Y☒ N☐ U☐

Equipment ID No. M33SIL*MV8812A Equip. Class 8

Equipment Description *"A" RHR Pump Suction From RWST*

Location: Bldg. *ES* Floor El. *8'* Room, Area *(A)RHR Pump*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒
   *In-line component (valve)*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-061**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light fixtures are suspended by chain with secured S-hooks, fixtures and fluorescent bulbs will not pose any adverse seismic interaction.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*See AWC# MP3-WB-022 for corrosion noted on nearby support PSR016.*
*Reference: Drawing No. 12179-EP-82D*
*Drawing No. 12179-C.I.SIL-9T Sht. 3*

Evaluated by: *James Petrosky* Date: *08-08-2012*

Evaluated by: *L. Jack DiLuna* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-062

**AWC #** MP3-WB-004 Status Y☒ N☐ U☐

Equipment ID No. M33SIH*MV8801A Equip. Class 8

Equipment Description *Charging Pump SI Header ISOL*

Location: Bldg. *AB* Floor El. *4'6"* Room, Area *MEZZ*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *In-line valve, no anchorage.*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-062

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James Mc Kinney Date: *08-16-2012*

Evaluated by: *James Petrosky* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-063

**AWC #** MP3-WB-021 Status Y☒ N☐ U☐

Equipment ID No. M33HVP*FN1B Equip. Class 9

Equipment Description *Emergency Generator Building Supply Fan*

Location: Bldg. *DG* Floor El. *44'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference DWG No. 25212-22767 Rev. 2.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-063

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Sombat Pornprasert* Date: *08-13-2012*

Evaluated by: *Thomas Steahr* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-064

**AWC #** MP3-WB-006 Status Y☒ N☐ U☐

Equipment ID No. M33HVR*FN13A Equip. Class 9

Equipment Description *Charging Pump Exhaust Fan*

Location: Bldg. *AB* Floor El. *66'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing No. 25212-22642 Rev. 2* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-064

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None*

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Evaluated by: *Thomas A. Steahr* Thomas A. Steahr Date: *08-09-2012*

Evaluated by: *Stephen F. Superson* Stephen F. Superson Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-065

**AWC #** MP3-WB-006 Status Y☒ N☐ U☐

Equipment ID No. M33HVR*FN14A Equip. Class 9

Equipment Description *Charging and Component Cooling Pump Exhaust Fan*

Location: Bldg. *AB* Floor El. *74'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing no. 25212-22642 Sheets 1-4 (Rev. 4)* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-065

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None*

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Evaluated by: *Thomas A. Steahr* Date: *08-09-2012*

Evaluated by: *Stephen F. Superson* Date: *08-09-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-066

**AWC #** MP3-WB-031 Status Y☒ N☐ U☐

Equipment ID No. M33HVR*FN10B1 Equip. Class 9

Equipment Description *Fuel Bldg Exhaust Fan*

Location: Bldg. *Fuel* Floor El. *66'-6"* Room, Area

Manufacturer, Model, Etc. (optional but recommended) *N/A*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing 25212-29140-00020.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-066

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*Connected in series with 3HVR*FN10B2*

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Evaluated by: *James McKinney* James McKinney Date: *08-14-2012*

Evaluated by: *James Petrosky* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-067

**AWC #** MP3-WB-012 Status Y☒ N☐ U☐

Equipment ID No. M33HVC*ACU1B Equip. Class 10

Equipment Description *Control Room A/C Unit Supply*

Location: Bldg. *CB* Floor El. *64'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Reference: Drawing No. 25212-29648 SH 535, Rev. 5*
   *Calculation No. 12179-C10.618 Rev. 0*
   *S&W Drawing no. 12179-EC-10L-2, Rev. 2*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-067

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Sombat Pornprasert* Date: *08-13-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-068**

**AWC # MP3-WB-024** Status Y☒ N☐ U☐

Equipment ID No. M33HVQ*ACUS1A Equip. Class 10

Equipment Description *ESF Self-Contained Air Conditioning Unit*

Location: Bldg. *ES* Floor El. *36'-6"* Room, Area *Above "A" SIH Pump*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *ACU Unit is Supported by an equipment pad shown on Drawing no. 12179-EC-32D.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-068**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Fluorescent light supported by chain S-hooks (secured), based on size and weight there is no potential for adverse seismic interaction.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*References: Drawing No. 12179-2178.430-144-034*
*Drawing No. 12179-EC-32D*
*Drawing No. 12179-EP-19M*

Evaluated by: *James Petrosky* Date: *08-08-2012*

Evaluated by: *L.Jack DiLuna* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-069

**AWC #** MP3-WB-012 Status Y☒ N☐ U☐

Equipment ID No. M33HVK*CHL1B Equip. Class 11

Equipment Description *Control BLDG Water Chiller*

Location: Bldg. *CB* Floor El. *64'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference S&W Drawing No. 1217902176-430-061-014A.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-069

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Sombat Pornprasert* Date: *08-13-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-070

**AWC #** MP3-WB-008 Status Y☒ N☐ U☐

Equipment ID No. *3BYS*PNL2V* Equip. Class 14

Equipment Description 'B' Trtain DC Distribution Panel

Location: Bldg. *CB* Floor El. *4'-6"* Room, Area *West SWGR*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference E&DCR FE-12720 for panel anchorage and wall mounted EMBED plate.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-070

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Seismic cable trays and ductwork.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *4 flex conduit.*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-17-2012*

Evaluated by: *James McKinney* Date: *08-17-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-071

**AWC #** MP3-WB-010 Status Y☒ N☐ U☐

Equipment ID No. *3SCV*PNLR10* Equip. Class 14

Equipment Description '120 Volt Vital Panel

Location: Bldg. *CB* Floor El. *4'-6"* Room, Area *East SWGR*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference: Drawing No. 25212-33075 (EE-38ZA).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-071

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *1 Flex conduit connection. 1 Rigid conduit anchor to wall adjacent to panel anchorage. Acceptable.*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐
    *No adverse interactions.*

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-22-2012*

Evaluated by: *Tom Steahr* Date: *08-22-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-073

**AWC #** MP3-WB-009 Status Y☒ N☐ U☐

Equipment ID No. M3301B-2 Equip. Class 15

Equipment Description Battery 4 (301B-2)

Location: Bldg. *CB* Floor El. *4'* Room, Area *Battery / West SWGR*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Calculation No. 12179-SEO-SE34.133, Rev. 2.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-073

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *Stephen F. Superson* Date: *08-16-2012*

Evaluated by: *William Price* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-074

**AWC #** MP3-WB-009 Status Y☒ N☐ U☐

Equipment ID No. M3301B-1 Equip. Class 15

Equipment Description Battery 2 (301B-1)

Location: Bldg. *CB* Floor El. *4'* Room, Area *Battery / West SWGR*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Calculation 12179-SEO-SE34.133, Rev. 2* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-074

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *Stephen F. Superson* Date: *08-16-2012*

Evaluated by: *William Price* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-079

**AWC #** MP3-WB-020 Status Y☒ N☐ U☐

Equipment ID No. M3EGS*EGB Equip. Class 17

Equipment Description *Emergency Diesel Generator (B)*

Location: Bldg. *DG* Floor El. *24'* Room, Area *D/G 'B'*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing 25212-11339 (Rev. 8).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-079

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*'A' train protected at time of walkdown.*

Evaluated by: *Stephen Superson* Date: *08-13-2012*

Evaluated by: *William Price* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-080

**AWC #** MP3-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M33CES*IPNLI01 Equip. Class 18

Equipment Description *Instrument Panel Orange*

Location: Bldg. *CB* Floor El. *43'-6"* Room, Area *Instrument Rack Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Anchorage consistent with Dwg. 25212-3932 SH 175 Rev. D.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-080**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*.None*

Evaluated by: *Tom Steahr* Date: *08-16-2012*

Evaluated by: *Sombat Pornprasert* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-081

**AWC #** MP3-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M33CES*IPNLI20 Equip. Class 18

Equipment Description *Instrument Panel Orange*

Location: Bldg. *CB* Floor El. *43'-6"* Room, Area *Instrument Rack Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Bolted anchorage consistent with Dwg. 25212-3932 SH 483, Rev. B, DWG. 25212-51298 SH 2, Rev. 2 and Dwg. 25212-39392 SH 17, Rev. D.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-081

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*.None*

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Evaluated by: *Tom Steahr* Date: *08-16-2012*

Evaluated by: *Sombat Pornprasert* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-083

**AWC #** MP3-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M33RPS*RAKSET1 Equip. Class 18

Equipment Description *Reactor Protection System Rack Set 1*

Location: Bldg. *CB* Floor El. *43'-6"* Room, Area *Instrumentation Rack Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Cabinet is welded to floor consistent with E&DCR F-S-9378. Reference DWG 2512-33031, Rev. 28 for location.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-083

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Thomas Steahr* Date: *08/16/2012*

Evaluated by: *Sombat Pornprasert* Date: *08/16/2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-084

**AWC #** MP3-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M33RPS*RAKSET3 Equip. Class 18

Equipment Description *Reactor Protection System Rack Set 3*

Location: Bldg. *CB* Floor El. *43'-6"* Room, Area *Instrument Rack Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
*Cabinet is welded to floor consistent with E&DCR F-S-9378. Reference DWG 2512-33031, Rev. 28 for location.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-084**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Thomas Steahr* Date: *08-16-2012*

Evaluated by: *Sombat Pornprasert* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-085

**AWC #** MP3-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M33RPS*RAKSET5 Equip. Class 18

Equipment Description *Reactor Protection System Rack Set 5*

Location: Bldg. *CB* Floor El. *43'-6"* Room, Area *Instrument Rack Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Cabinet is welded to floor consistent with E&DCR F-S-9378. Reference DWG 2512-33031, Rev. 28 for location.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-085

**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas Steahr* Date: *08/16/2012*

Evaluated by: *Sombat Pornprasert* Date: *08/16/2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-086

**AWC #** MP3-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M33CES*MCB-MB1 Equip. Class 20

Equipment Description *Main Control Board*

Location: Bldg. *CB* Floor El. *47'-6"* Room, Area *Control Room, Area 6*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *As-installed configurations are consistent with E&DCR No. F-S-12408.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-086

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas Steahr* Thom A. Stea Date: *08-16-2012*

Evaluated by: *Sombat Pornprasert* Sombat Porn Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-087

**AWC #** MP3-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M33CES*MCB-MB3 Equip. Class 20

Equipment Description *Main Control Board*

Location: Bldg. *CB* Floor El. *47'-6"* Room, Area *Control Room, Area 6*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
*As-installed configurations are consistent with E&DCR No. F-S-12468.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-087

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Thomas Steahr* Thomas A. Steahr Date: *08-16-2012*

Evaluated by: *Sombat Pornprasert* Sombat Pornprasert Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-088

**AWC #** MP3-WB-011 Status Y☒ N☐ U☐

Equipment ID No. M33CES*MCB-MB5 Equip. Class 20

Equipment Description *Main Control Board*

Location: Bldg. *CB* Floor El. *47'-6"* Room, Area *Control Room, Area 6*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *As-installed configurations are consistent with E&DCR No. F-S-12468.*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-088**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: *Thomas Steahr* Thomas A. Steahr Date: *08-16-2012*

Evaluated by: *Sombat Pornprasert* Sombat Pornprasert Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-089**

**AWC # MP3-WB-010** Status Y☒ N☐ U☐

Equipment ID No. 3CES*PNLFTSP Equip. Class 20

Equipment Description *Fire Transfer Switch Panel*

Location: Bldg. *CB* Floor El. *4'-6"* Room, Area *East SWGR Room*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *References: Drawing no.25212-39245 SH. 660,*
   *Calculation SEO-C10.30, Rev. 1*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-089

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas Steahr* Date: *08-16-2012*

Evaluated by: *Sombat Pornprasert* Date: *08-16-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-090

**AWC #** MP3-WB-008 Status Y☒ N☐ U☐

Equipment ID No. *3RPS*PNLAS* Equip. Class 20

Equipment Description Aux Shutdown Panel - B

Location: Bldg. *CB* Floor El. *4'-6"* Room, Area *West SWGR*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing No. 25212-33046 Bolted Together Consistent with 12179.2424.300-246-013F.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-090

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Seismic restrained cable trays and ductwork.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐
   *Flex conduit electrical connections.*

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-17-2012*

Evaluated by: *James McKinney* Date: *08-17-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-091

**AWC #** MP3-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M33CCP*E1A Equip. Class 21

Equipment Description *RBCCW Heat Exchanger A*

Location: Bldg. *AB* Floor El. *24* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing No. 25212-22218 Rev. 08 and Drawing No. 25212-22219 Rev. 08* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SWEL-091**

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*None*

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Evaluated by: *Thomas A. Steahr* Date: *08-07-2012*

Evaluated by: *Stephen F. Superson* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-092

**AWC #** MP3-WB-001 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*E4 Equip. Class 21

Equipment Description *Seal Water Heat Exchanger*

Location: Bldg. *AB* Floor El. *24* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *See Drawing No. 25212-29001 SH 2047 Rev. 4* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-092

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None*

Evaluated by: *Thomas Steahr* Date: *08-08-2012*

Evaluated by: *Stephen F. Superson* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SEWL-093

**AWC #** MP3-WB-005 Status Y☒ N☐ U☐

Equipment ID No. M33CHS*TK5A Equip. Class 21

Equipment Description *A Boric Acid Tank*

Location: Bldg. *AB* Floor El. *43'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *See drawing 25212-11134 (Rev. 7).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC # MP3-WD-SEWL-093**

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas Steahr* Date: *08-08-2012*

Evaluated by: *Stephen Superson* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-094

**AWC #** MP3-WB-020 Status Y☒ N☐ U☐

Equipment ID No. M3EGS*TK1B Equip. Class 21

Equipment Description *Diesel Start Air Receiver Tank*

Location: Bldg. *DG* Floor El. *24'* Room, Area *D/G 'B'*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing 25212-11339 (Rev. 8).* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-094

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*'A' train protected at time of walkdown.*

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Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-13-2012*

Evaluated by: *William Price* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-095

**AWC #** MP3-WB-021 Status Y☒ N☐ U☐

Equipment ID No. M33EGF*TK2B Equip. Class 21

Equipment Description *Emergency Generator Fuel Oil Day Tank*

Location: Bldg. *DG* Floor El. *37'6"* Room, Area *D/G "B"*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐
   *Reference: DWG 25212-29022, Rev. 0*
   *DWG 25212-11477, Rev. 0*

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-095

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Observed last support for 1" diameter fire piping is hung by threaded rod by beam clamp. The piping is cantilevered approximately 4'. The remaining supports are supported off the ceiling using Hilti drop-in anchor. Therefore even if the beam clamp fails the cantilever piping portion will not fall on top of the tank.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-13-2012*

Evaluated by: *Thomas Steahr* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-096

**AWC #** MP3-WB-028 Status Y☒ N☐ U☐

Equipment ID No. M33FWA*TK1 Equip. Class 21

Equipment Description *Demin Water Storage Tank*

Location: Bldg. *YD* Floor El. *24'-4"* Room, Area *Yard*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☐ N☒

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☐ N☐ U☐ N/A☒
   *No visible anchorage for tank to pad.*

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☐ N☐ U☐ N/A☒

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☐ N☐ U☐ N/A☒

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☐ N☐ U☐ N/A☒

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐
   *Anchorage is not visible, however there are no indications of potential adverse seismic conditions*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-096

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Note: lights appear to be adequately supported vertically (chain hung).*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
    *Inside tank room okay.*

**Comments** (Additional pages may be added as necessary)

Evaluated by: *William Price* Date: *08-07-2012*

Evaluated by: *James McKinney* Date: *08-07-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-097

**AWC #** MP3-WB-012 Status Y☒ N☐ U☐

Equipment ID No. M33HVK*E1B Equip. Class 21

Equipment Description *Heat Exchanger for Control BLDG Water Chiller*

Location: Bldg. *CB* Floor El. *64'* Room, Area

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing No. 25212-24209 SH 1 Rev. 2* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-097

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

---

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*1" water pipe located above with beam clamp support 5' from chiller. Structural support 3' from chiller. 1" pipe is captured between large bore chiller supply and return piping. 1" pipe cannot contact chiller if beam clamp were to fail.*

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Evaluated by: *Sombat Pornprasert* Date: *08-13-2012*

Evaluated by: *Thomas A. Steahr* Date: *08-13-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-098

**AWC #** MP3-WB-032 Status Y☒ N☐ U☐

Equipment ID No. M33CCE*TK1 Equip. Class 21

Equipment Description *CCE Surge Tank*

Location: Bldg. *AB* Floor El. *43'* Room, Area

Manufacturer, Model, Etc. (optional but recommended) *N/A*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) *Reference Drawing no. 25212-29022, Sht. 10 and 11.* Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-098

**Interaction Effects**

| | | |
|---|---|---|
| 7. | Are soft targets free from impact by nearby equipment or structures? | Y☒ N☐ U☐ N/A☐ |
| 8. | Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? | Y☒ N☐ U☐ N/A☐ |
| 9. | Do attached lines have adequate flexibility to avoid damage? | Y☒ N☐ U☐ N/A☐ |
| 10. | Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? | Y☒ N☐ U☐ |

**Other Adverse Conditions**

| | | |
|---|---|---|
| 11. | Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?<br>*Potential interaction with Category I pipe support CP-372500-H001 addressed in CR 484958,* | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James Mc Kinney Date: *08-14-2012*

Evaluated by: *James Petrosky* Date: *08-14-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-099

**AWC #** MP3-WB-022 Status Y☒ N☐ U☐

Equipment ID No. M33RHS*E1A Equip. Class 21

Equipment Description *Residual Heat Exchanger*

Location: Bldg. *ES* Floor El. *8'* Room, Area *(A)RHR Pump*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐
   *Per Drawing No. 12179-EC-7448-8 wall suppot plates are 2-Det. J, 1-Det. H. Per Drawing No. 12179-EC-149D-3, Det. H has 20 bolts, Det. J has 16 bolts. Total 2x16 +20 =52 bolts, 8 bolts are not visible, greater than 80% were verified.*

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐
   *Some surface corrosion noted. Tracked in the B.A.C. program, reference CR 484254.*

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-099

**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Light fixtures are suspended by chain with secured S-hooks, fixtures and bulbs will not pose any threat to heat exchanger.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐
    *See AWC# MP3-WB-022 for general housekeeping issues none of which adversely affect the RHR heat exchanger.*

**Comments** (Additional pages may be added as necessary)

*A shielding scaffold was noted at elev. 24'-6". It was evaluated by a lead shielding review, and assessed as part of this walkdown, concluding no adverse seismic interaction.*

*Reference: Drawing No. 12179-EC-749D-3*
*Drawing No. 12179-EC-749B-8*
*Drawing No. 12179-2214.303-001-002B*
*Drawing No. 12179-EM-2B*
*Drawing No. 25212-29001 Sh. 1007*
*Drawing No. 12179-EV-58C*
*Drawing No. 12179-EV-58A*
*Drawing No. 12179-EV-58B*

Evaluated by: *James Petrosky* Date: *08-08-2012*

Evaluated by: *L. Jack DiLuna* Date: *08-08-2012*

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-100

**AWC #** MP3-WB-026 Status Y☒ N☐ U☐

Equipment ID No. M33SFC*E1A Equip. Class 21

Equipment Description *Fuel Pool Cooler*

Location: Bldg. *FB* Floor El. *24'* Room, Area *SFP Pumps & Hx*

Manufacturer, Model, Etc. (optional but recommended)

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Seismic Walkdown of an item of equipment on the SWEL. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

**Anchorage**

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y☒ N☐

2. Is the anchorage free of bent, broken, missing or loose hardware? Y☒ N☐ U☐ N/A☐

3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y☒ N☐ U☐ N/A☐

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y☒ N☐ U☐ N/A☐

5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y☒ N☐ U☐ N/A☐

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y☒ N☐ U☐

## Seismic Walkdown Checklist (SWC)

**SWC #** MP3-WD-SWEL-100

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**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y☒ N☐ U☐ N/A☐

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y☒ N☐ U☐ N/A☐
   *Overhead fluorescent light fixtures were reviewed and are adequately restrained by chain with secured s-hooks, therefore no adverse interaction concerns.*

9. Do attached lines have adequate flexibility to avoid damage? Y☒ N☐ U☐ N/A☐

10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y☒ N☐ U☐

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**Other Adverse Conditions**

11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y☒ N☐ U☐

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**Comments** (Additional pages may be added as necessary)

*Reference: Drawing No.12179-EM-7A, 12179-EM-7C*
*Drawing No. 12179-ES-38G-2*
*Drawing No. 25212-29005 SH 1*
*Calculation No.12179-S38-322 (anchorage).*

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Evaluated by: *James Petrosky* Date: *08-07-2012*

Evaluated by: *Jack DiLuna* Date: *08-07-2012*

# Appendix D

# Area Walk-by Checklists

(58 pages)

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-001

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *24'* Room, Area *Misc. Mech*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-001

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Thomas Steahr* Date: *08-07-2012*

Evaluated by: *Stephen F. Superson* Date: *08-07-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-002

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *24'* Room, Area *MCC Rod Drive (Misc. Elec.)*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐
   *HVAC and cable trays are well supported and do not have potentially adverse interaction with equipment.*

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Light fixtures are hung by chain with secured S-hooks and do not pose a potential adverse interaction with equipment.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC # MP3-WB-002**

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Ladders, MCC lift device, boxes and hand truck are tied off in accordance with Procedure OA 8. Thus no potential adverse interaction with equipment. Hose rack 1131 is well supported. Housekeeping is very good in the area*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-09-2012*

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-003

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *24'* Room, Area *Chrg. Pump Cubicles "A"*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-003

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James McKinney Date: *08-08-2012*

Evaluated by: *Bill Price* Date: *08-08-2012*

## Area Walk-By Checklist (AWC)

**AWC # MP3-WB-004**

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *4'-6"* Room, Area *Penetration Area (near 3CHS*MV8116 (V701)*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☐ N☒ U☐ N/A☐
   *Refer to CR484242 moderate corrosion on pipe support for valve 3CHS*MV8116*

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☐ N☐ U☐ N/A☒

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-004

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

1. *Supports for valve 3SSR-V785, 3SSR-V794, and 3SSR-V791 have moderate corrosion at floor plate. Supports are located in the housekeeping water collection trough (ref. CR484242) Auxiliary Building elevation 4'-6". Per the engineering evaluation of the corroded components, there is sufficient effective throat and weld length, therefore the support is functional and not an operability concern.*

Evaluated by: *Bill Price* Date: *08-08-2012*

Evaluated by: *James McKinney* Date: *08-08-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-005

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *43'* Room, Area *Fans*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-005

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area walk-by performed in area south of "B" Boric Acid Tank, 3CHS*TK5B.*

Evaluated by: *Thomas Steahr* Date: *08-08-2012*

Evaluated by: *Stephen F. Superson* Date: *08-08-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-006

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *66'* Room, Area --

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-006

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area walk-by conducted at the charging pump exhaust fan (M33HVR*FN13A).*

Evaluated by: *Tom Steahr* Thomas C. Steahr Date: *08-09-2012*

Evaluated by: *Stephen Superson* Stephen F. Superson Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-007

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *43'* Room, Area *'A' BAST Tanks*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-007

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area Walk-By performed in Boric Acid Tank 3CHS*TK5A cubicle.*

Evaluated by: *Thomas Steahr* Date: *08-08-2012*

Evaluated by: *Stephen Superson* Date: *08-08-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-008

Status Y☒ N☐ U☐

Location: Bldg. *Control* Floor El. *4'-6"* Room, Area *West SWGR*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐
   *Seismically designed raceways and duct work.*

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-008

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Tool boxes properly restrained.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* James Mc Kinney Date: *08-17-2012*

Evaluated by: *James Petrosky* Date: *08-17-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-009

Status Y☒ N☐ U☐

Location: Bldg. *CB* Floor El. *4'* Room, Area *Battery Rooms 2+4 / West SWGR*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-009

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area walk-by conducted in battery room No. 2 [Battery 2 (301B-1)] and in battery room No. 4 [Battery 4 (301B-2)].*

Evaluated by: *William Price* Date: *08-16-2012*

Evaluated by: *Stephen Superson* Date: *08-16-2012*

## Area Walk-By Checklist (AWC)

**AWC # MP3-WB-010**

Status Y☒ N☐ U☐

Location: Bldg. *CB* Floor El. *4'6"* Room, Area *East Switchgear*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐
   *HVAC ducts, cable trays, FP piping well supported in overhead and do not adversely impact any equipment in room.*

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Lighting fixtures are supported from ceiling with chain and secured s-hooks and do not adversely impact any equipment in room.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-010

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Items stored in room including ladders, toolbox and cart are secured in accordance with 0A 8.*
   *Air bottles 3FPB-SCB1 are secured to a rack. Housekeeping in room is very good overall.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-09-2012*

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-011

Status Y☒ N☐ U☐

Location: Bldg. *CB* Floor El. *47'-6"* Room, Area *Control Room, Area 6*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-011

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-16-2012*

Evaluated by: *Thomas Steahr* Date: *08-16-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-012

Status Y☒ N☐ U☐

Location: Bldg. *CB* Floor El. *64'* Room, Area *CB HVAC*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-012

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Area walk-by performed in vicinity of booster pump M33SUP*P2B.*

Evaluated by: *Sombat Pornprasert* Date: *08-13-2012*

Evaluated by: *Thomas Steahr* Date: *08-13-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-013

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *24'* Room, Area *MCC Drive (West)*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐
   *HVAC and cable trays are well supported and do not have potentially adverse interaction with equipment.*

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Light fixtures are hung by chain with secured s-hooks and do not pose a potential adverse interaction with equipment.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-013

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Housekeeping is very good in this area, temporary equipment is restrained in accordance with OA-8.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

Evaluated by: *James Petrosky* Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC # MP3-WB-014**

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *45'* Room, Area *MCC Rod Drive (West)*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐
   *HVAC and cable trays are well supported and do not have a potentially adverse interaction with equipment.*

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Light fixtures are hung by chain with secured s-hooks and do not pose a potential adverse interaction with equipment.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-014

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Temporary equipment is restrained in accordance with OA-8 thus no potential interaction with equipment. Housekeeping is very good in this area.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

Evaluated by: *James Petrosky* Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-015

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *45'* Room, Area *MCC Rod Drive (Elec)*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐
   *HVAC and cable trays are well supported and do not have a potentially adverse interaction with equipment.*

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Light fixtures are hung by chain with secured S-hooks and do not pose a potential adverse interaction with equipment.*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-015

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐
   *Ladders, MCC lift device and boxes are tied off in accordance with Procedure OA 8, thus no potential interaction with equipment. Housekeeping is very good in this area.*

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-09-2012*

Evaluated by: *Jack DiLuna* Date: *08-09-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-019

Status Y☒ N☐ U☐

Location: Bldg. *CW* Floor El. *14'6"* Room, Area *CW Pump House (Service Water) Intake*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

   *There are five overhead chain-hung lights in the area. Each was evaluated. In some cases the lights could swing and interact with adjacent seismically supported duct work with no adverse effects. If the light fixture was to fall, safety related targets, such as 3SWP-PS27A may be impacted, but were all judged to be sufficiently rugged so that there would be no adverse effects.*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-019

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*A water leak from 3SWP*STR1C was noted, a trouble report was previously submitted, no further action is required.*

Evaluated by: *James Petrosky* Date: *08-06-2012*

Evaluated by: *Jack DiLuna* Date: *08-06-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-020

Status Y☒ N☐ U☐

Location: Bldg. *DG* Floor El. *24'* Room, Area *'B' EDG Equipment*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-020

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Stephen Superson* Date: *08-13-2012*

Evaluated by: *William Price* Date: *08-13-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-021

Status Y☒ N☐ U☐

Location: Bldg. *DG* Floor El. *37'* Room, Area *EDG Enclosure & Day Tank ('B' Train)*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-021

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*None.*

Evaluated by: *Sombat Pornprasert* Date: *08-13-2012*

Evaluated by: *Thomas Steahr* Date: *08-13-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-022

Status Y☒ N☐ U☐

Location: Bldg. *ESF* Floor El. *4'* Room, Area *RHR Pump and Heat Exchanger Cubicle*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐
   *See MP-WD-SEWL-099 for A RHR Heat Exchanger bolting corrosion issue.*

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Light fixtures are suspended by chain with secured s-hooks, fixtures and bulbs will not pose any threat to equipment.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-022

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Overall housekeeping in the RHR A cubicle did not meet procedure 0A 8. Specifically jacketed insulation segments were stored on the floor throughout the room, along with other items. Most were not secured per 0A 8. None of these items created an adverse seismic interaction condition. See CR484235.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Water was dripping from above near the HP boundary step-off pad. Water was accumulating on the floor and appears to be causing corrosion of support PSR016 near SIL*MV8812A. Corrosion was not significant and does not affect seismic adequacy of pipe support. HP was notified, see CRs, CR484243 and CR484235.*

Evaluated by: *James Petrosky* Date: *08-08-2012*

Evaluated by: *Jack DiLuna* Date: *08-08-2012*

## Area Walk-By Checklist (AWC)

**AWC # MP3-WB-023**

Status Y☒ N☐ U☐

Location: Bldg. *ESF* Floor El. *21'* Room, Area *Motor Driven Aux. Feed Pump Room "A" and Turbine Driven Aux. Feed Pump Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-023

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *William Price* Date: *08-07-2012*

Evaluated by: *James McKinney* Date: *08-07-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-024

Status Y☒ N☐ U☐

Location: Bldg. *ESF* Floor El. *36'* Room, Area *Ventilation &Misc.*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Lighting fixtures are supported by chain with secured s-hooks. No adverse seismic interactions noted.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-024

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Temporary scaffolding in area was reviewed and in each case there was sufficient bracing and shake spare such that seismic interaction is precluded.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-08-2012*

Evaluated by: *Jack DiLuna* Date: *08-08-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-025

Status Y☒ N☐ U☐

Location: Bldg. *ESF* Floor El. *15'* Room, Area *RHR Penetrations*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐
   *Seismic HVAC duct overhead, fluorescent light fixture properly restrained.*

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-025

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *See comments below.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐
   *Fire line well supported.*

**Comments** (Additional pages may be added as necessary)

*Dress-out station and Decontamination equipment were present in this area. Cabinets and barrels were restrained. Loose hose, shielding barrels were not restrained but did not pose equipment interaction hazards. Ops cabinet was bolted to the wall, ladders were restrained on bracket.*

Evaluated by: *James Petrosky* Date: *08-14-2012*

Evaluated by: *James McKinney* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-026

Status Y☒ N☐ U☐

Location: Bldg. *FB* Floor El. *24'6"-45'6"* Room, Area *Spent Fuel Cooling Pumps & Hx Areas*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Overhead fluorescent light fixtures were reviewed and are adequately restrained by chain with secured s-hooks, therefore no adverse interaction concerns.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐
   *FP Piping in corner of room is well restrained and does not present an adverse seismic interaction concern.*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-026

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Wrenches are stored in a support beside the ASFP Cooling Pump. They are not secured but are close to the floor and do not provide a seismic interaction concern.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *Jim Petrosky* Date: *08-07-2012*

Evaluated by: *Jack DiLuna* Date: *08-07-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-027

Status Y☒ N☐ U☐

Location: Bldg. *MS* Floor El. *66'* Room, Area *Main Steam Valve Bldg*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-027

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *Temporary heaters stored on the 49' 6" elevation of the MSVB are attached to the floor with lanyards, but not restrained to prevent tipping as required by procedure 0A-8. Ref: CR 484067*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

*Overhead fluorescent light fixtures were reviewed and are adequately restrained by chain with secured s-hooks therefore no adverse interaction concerns.*

Evaluated by: *Jim Petrosky* Date: *08-07-2012*

Evaluated by: *Jack DiLuna* Date: *08-07-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-028

Status Y☒ N☐ U☐

Location: Bldg. *YD* Floor El. *24'-4"* Room, Area *Yard, DWST Enclosure*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐
   *Water on floor, some minor surface rust on conduit supports. Conduit route to valves 3FWA*V928, V929, V930.*

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *Lighting hanger appears to be adequate.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-028

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *(Rolled fire hose on floor in corner of room, no interaction). Observed temp mod to supply 3FWA after TK1.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *William Price* Date: *08-07-2012*

Evaluated by: *James McKinney* Date: *08-07-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-029

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *43'* Room, Area *3CHS*TK2 Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *No interactions found.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐
   *No flooding or spray hazards found.*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-029

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐
   *No storage in room.*

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-14-2012*

Evaluated by: *James McKinney* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-030

Status Y☒ N☐ U☐

Location: Bldg. *AB* Floor El. *43'* Room, Area *'B' Boric Acid Tank Room*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐
   *No interaction found.*

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐
   *No flooding or spray hazards found.*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-030

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-14-2012*

Evaluated by: *James McKinney* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-031

Status Y☒ N☐ U☐

Location: Bldg. *Fuel* Floor El. *66'-6"* Room, Area *Col. F to F.3 and 54.4 to 52.3 FUEL BLDG. EXH FAN AREA*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y☒ N☐ U☐ N/A☐
   *Adjacent FP lines well supported with U-bolts.*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-031

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y☒ N☐ U☐ N/A☐

7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y☒ N☐ U☐ N/A☐

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y☒ N☐ U☐
   *Adjacent scaffolding (long term #1847) is well braced.*

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James Petrosky* Date: *08-14-2012*

Evaluated by: *James McKinney* Date: *08-14-2012*

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-032

Status Y☒ N☐ U☐

Location: Bldg. *Aux.* Floor El. *43'* Room, Area *Col. 51.3 to 52.3 and F.3 to F (3CCE*TK1 Area)*

**Instructions for Completing Checklist**

This checklist shall be used to document the results of the Area Walk-By near one or more SWEL items. The space below each of the following questions may be used to record the results of judgments and findings. Additional space is provided at the end of this checklist for documenting other comments.

1. Does anchorage of equipment in the area appear to be free of potentially adverse seismic conditions (if visible without necessarily opening cabinets)? Y☒ N☐ U☐ N/A☐

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y☒ N☐ U☐ N/A☐
   *Adjacent SW valve and flanges have mild surface rust and valve 3SWP*V866 weeping slightly (already addressed by CR 460432).*

3. Based on a visual inspection from the floor, do the cable/conduit raceways and HVAC ducting appear to be free of potentially adverse seismic conditions (e.g., condition of supports is adequate and fill conditions of cable trays appear to be inside acceptable limits)? Y☒ N☐ U☐ N/A☐

4. Does it appear that the area is free of potentially adverse seismic spatial interactions with other equipment in the area (e.g., ceiling tiles and lighting)? Y☒ N☐ U☐ N/A☐

## Area Walk-By Checklist (AWC)

**AWC #** MP3-WB-032

| | |
|---|---|
| 5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? | Y☒ N☐ U☐ N/A☐ |
| 6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? | Y☒ N☐ U☐ N/A☐ |
| 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? | Y☒ N☐ U☐ N/A☐ |
| 8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? | Y☒ N☐ U☐ |

**Comments** (Additional pages may be added as necessary)

Evaluated by: *James McKinney* Date: *08-14-2012*

Evaluated by: *James Petrosky* Date: *08-14-2012*