



November 27, 2012

U.S. Nuclear Regulatory Commission  
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Washington, DC 20555

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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.

ADD 1



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**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**

<b>ID Number</b>	<b>Description</b>	<b>Location</b>	<b>Inspection Completion Schedule</b>
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**

<b>ID Number</b>	<b>Description</b>	<b>Location</b>	<b>Inspection Completion Schedule</b>
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 <sup>1</sup>	480V AC MOTOR CONTROL CENTER	Auxiliary Building	Spring outage 2013
M332-1U <sup>1</sup>	480V MCC 32-1U (EMERG) EMERGENCY GENERATOR	'B' Diesel Generator Room	Spring outage 2013
M332-2R <sup>1</sup>	480 VOLT MCC 32-2R(EMERG) ROD CONTROL	Auxiliary Building	Spring outage 2013

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

<sup>1</sup> 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 NRC's 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 NRC's 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	<p>The enclosure expansion anchorage was found to be limiting for RSST Feeder Breaker's 22S3-2-2 enclosure.</p> <p><u>References:</u></p> <p>MP2 IPEEE, Section 3.2.4.13 and Table 3.2-3</p>	<p>Closed.</p> <p>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.</p>
9	Closed	<p>Tank Anchorage was found to be limiting for the Chilled Water Surge Tank, T98.</p> <p><u>Reference:</u></p> <p>MP2 IPEEE, Table 3.2-3</p>	<p>See letter dated August 13, 2004 (Reference 8) for closure information.</p>
10	Closed	<p>The block wall adjacent to INV-5 is not considered "Safety Related" and was assumed to be unreinforced.</p> <p><u>References:</u></p> <p>MP2 IPEEE, Section 3.2.4.15 and Table 3.2-3</p>	<p>Closed based on the determination that component INV-5 is not risk significant.</p>
12	Closed	<p>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.</p> <p>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.</p> <p><u>Reference:</u></p> <p>MP2 IPEEE, Section 4.11.3.3</p>	<p>See letter dated August 13, 2004 (Reference 8) for closure information.</p>
13	Closed	<p>A long run of fire water header system piping along the Turbine Building's north wall appears to have very low seismic capacity.</p> <p><u>Reference:</u></p> <p>MP2 IPEEE, Section 4.11.3.3</p>	<p>See letter dated August 13, 2004 (Reference 8) for closure information.</p>
14	Closed	<p>The block wall construction of the fire pump house (shared by MP1 and MP2) may not provide adequate seismic ruggedness.</p> <p><u>Reference:</u></p> <p>MP2 IPEEE, Section 4.11.3.3</p>	<p>See letter dated August 13, 2004 (Reference 8) for closure information.</p>

## 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" SERVICE 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

<b>SWEL Equipment Class Summary</b>		
<b>GIP Equipment Class</b>	<b>Class Title</b>	<b>Equipment Count</b>
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

<b>SWEL System Summary</b>		
<b>Local System</b>	<b>System Description</b>	<b>Equipment Count</b>
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**

<b>AWC #</b>	<b>MPS Unit 2 Plant Area Description</b>	<b>MPS Unit 2 AWC Count</b>
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

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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**

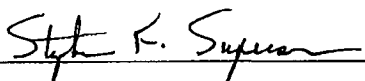
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U
- 

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

*None*

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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?  Y  N  U  N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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

**Interaction Effects**

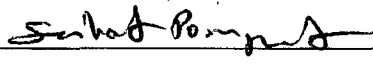
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

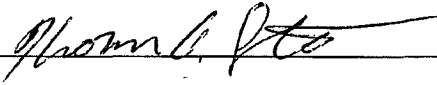
**Other Adverse Conditions**

- 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-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?  Y  N  U  N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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**

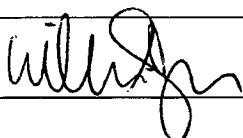
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y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

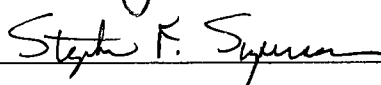
**Other Adverse Conditions**

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?  
*In-line damper.* Y N U

Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-004

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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

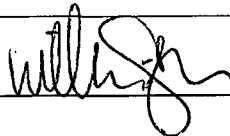
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**Comments** (Additional pages may be added as necessary)

*None*

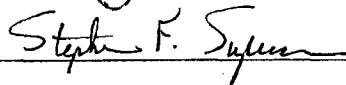
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Evaluated by: *William Price*



Date: *08-15-2012*

Evaluated by: *Stephen F. Superson*



Date: *08-15-2012*

**Seismic Walkdown Checklist (SWC)**SWC # MP2-WD-SWEL-005AWC # MP2-WB-030Status Y N UEquipment ID No. M22-HV-265 Equip. Class 0Equipment Description Vital Switchgear Ventilation System Discharge Fire DamperLocation: 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?  
*In-line damper.* Y N U

**Seismic Walkdown Checklist (SWC)**

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

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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**

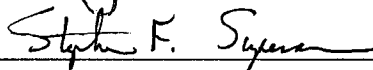
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U
- 

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

*None*

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

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

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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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 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**

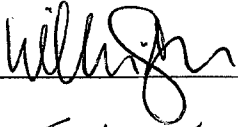
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U

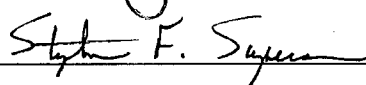
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**Comments** (Additional pages may be added as necessary)

*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-007Interaction Effects

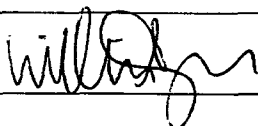
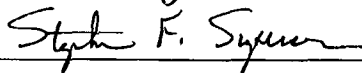
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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 PriceDate: 08-14-2012Evaluated by: Stephen SupersonDate: 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

**Interaction Effects**

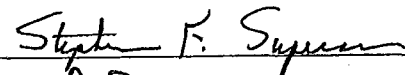
- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
  
- 9. Do attached lines have adequate flexibility to avoid 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

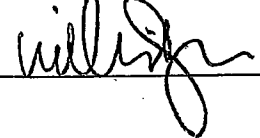
**Other Adverse Conditions**

- 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: 08-14-2012

Evaluated by: 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 JAP 10/20/12  
 T. STREANA TB 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

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 JPC 10/19/12  
T. STEHR TS 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-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? Y N U N/A  
 (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).*
  
- 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. PETUSKY *[Signature]* 10/19/12  
T STEATH *[Signature]* 10/19/12

Comments (Additional pages may be added as necessary)

None.

Evaluated by: William Price *[Signature]* Date: 08-10-2012

Evaluated by: Stephen Superson *[Signature]* Date: 08-10-2012



## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-012AWC # MP2-WB-007Status Y N UEquipment ID No. M2201A Equip. Class 2Equipment Description DC Battery Bus 201ALocation: 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

**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

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

J. PETUSKY *[Signature]* 10/19/12  
T. STERN *[Signature]* 10/19/12

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

None.

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

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

## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-014AWC # MP2-WB-029Status Y  N  U Equipment ID No. M224C Equip. Class 3Equipment Description 4.16 kV Emergency Bus 24CLocation: 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-014Interaction Effects

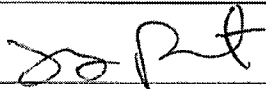
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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 cabinet A302 of bus 24C with breaker removed: -- verified anchorage, adjacent cabinets bolted together, and internals condition,*

Evaluated by: James PetroskyDate: 10-16-2012Evaluated by: Thomas SteahrDate: 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.)  
*Cabinet was replaced per Design Change DCR M2-02009. Base Anchorage justified per Calculation No. 02-ENG-03148C2 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-015Interaction Effects

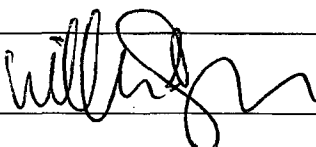
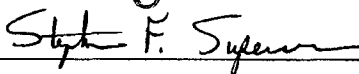
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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 PriceDate: 08-10-2012Evaluated by: Stephen SupersonDate: 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.)  
*Welded anchorage consistent with SEWS B61 (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-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 *[Signature]* 10/19/12  
 T. STEAHR *[Signature]* 10/19/12

Comments (Additional pages may be added as necessary)

Evaluated by: James Petrosky *[Signature]* Date: 09-05-2012

Evaluated by: Tom Steahr *[Signature]* Date: 09-05-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-017AWC # MP2-WB-010Status Y  N  U Equipment ID No. M2P11A Equip. Class 5Equipment Description "A" RBCCW Pump AssemblyLocation: Bldg. AB Floor El. -25'-6" Room, Area RBCCW Pump/ Heat Exchanger AreaManufacturer, 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 1/4") cracks on SEWS sheets 4-10 which have no adverse effect on anchorage.*
5. Is the anchorage configuration consistent with plant documentation? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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

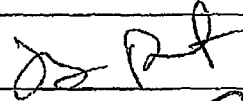
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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

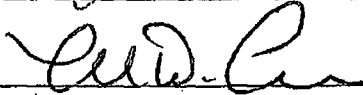
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

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.)  
*Anchorage bolt configuration and size consistent with VTM No. 25203-308-003 using layout and hole size.* 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-018Interaction 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 OAS and will have no adverse interaction with pump.*

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

Evaluated by: James Retrosky  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**Interaction Effects**

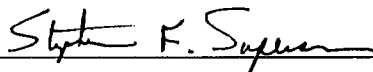
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: 08-09-2012

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



## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-020AWC # MP2-WB-002Status Y N UEquipment ID No. M2P19A Equip. Class 5Equipment Description "A" Boric Acid Pump AssemblyLocation: 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**Interaction Effects**

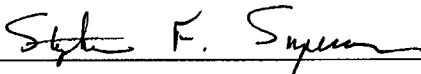
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: 08-09-2012

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**

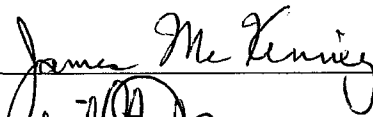
- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
  
- 9. Do attached lines have adequate flexibility to avoid 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

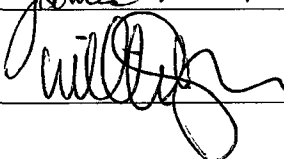
**Comments** (Additional pages may be added as necessary)

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**

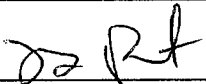
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A  
*Light fixtures supported by conduit, has no adverse effect on 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-023AWC # MP2-WB-027Status Y  N  U Equipment ID No. M2P9A Equip. Class 5Equipment 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**

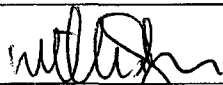
- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
  
- 9. Do attached lines have adequate flexibility to avoid 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

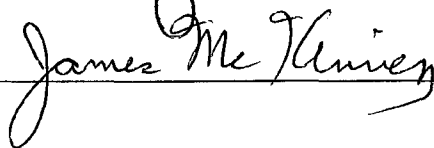
**Comments** (Additional pages may be added as necessary)

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

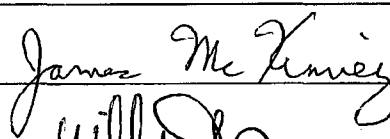
**Interaction Effects**

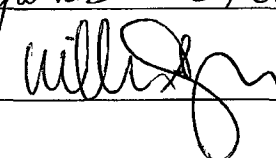
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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-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 (Mir 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**

**Interaction Effects**

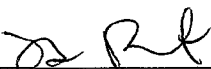
- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A  
*Light fixtures supported by conduit have no adverse effect 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.*

**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 P42A (Rev. 0) sheets 1-5  
 SEWS P42B (Rev. 0) sheets 1-8  
 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-026AWC # MP2-WB-022Status Y  N  U Equipment ID No. M2P5A Equip. Class 6Equipment Description 'A' Service Water PumpLocation: 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-026Interaction 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 *Thomas A. Steahr* Date: 08-07-2012

Evaluated by: Stephen Superson *Stephen R. Superson* 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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 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

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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

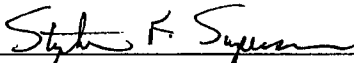
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**Comments** (Additional pages may be added as necessary)

*Reference SEWS ID 2-CH-210X 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-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**

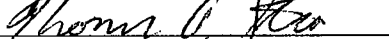
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

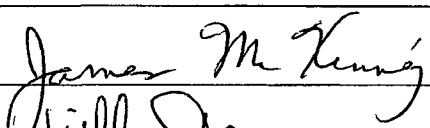
**Interaction Effects**

- 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

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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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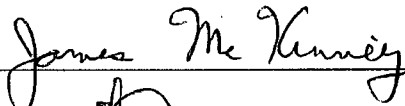
**Other Adverse Conditions**

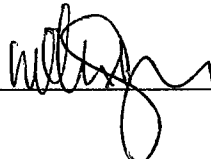
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

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

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Evaluated by: James McKinney  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

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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 McKinney*

Date: 08-09-2012

Evaluated by: William Price

*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? Y N U N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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-032Interaction 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.)  
*In-line valve Drawing No.25203-29087 Sht.1, Rev. 14. SOV externally mounted on containment wall on rigid support.* 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-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
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**

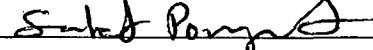
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

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

*None*

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

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.)  
*In-line valve drawing No. 25203-29059-00012A (Rev. 3).*  
*Iso. Drawing 25203-20150-00503 (Rev. 20).* 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-034Interaction 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-035AWC # MP2-WB-025Status Y  N  U Equipment ID No. M22-MS-64B Equip. Class 7Equipment Description #2 S/G Main Isolation Valve Pen #20Location: 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? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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-035Interaction 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? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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**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  
*The shake space between tubing on the operator and adjacent item is approximately 2" minimum, which is evaluated as acceptable.*

**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*

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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

**Interaction Effects**

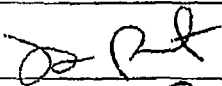
7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A  
*Light fixture ~2 feet from valve actuator has no significant 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


**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 2RB-4.1B (Rev. 0) Sheets 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-038AWC # MP2-WB-021Status Y N UEquipment ID No. M22-RC-402 Equip. Class 7Equipment Description Pressurizer Power Operated Relief Valve AssemblyLocation: 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**

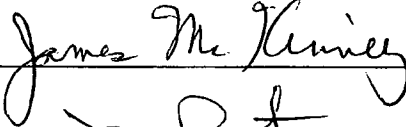
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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  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? Y N U N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

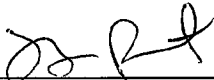
- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A  
*Light Fixtures supported by conduit has no adverse effect 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

**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-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? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

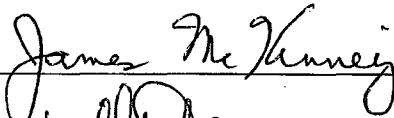
**Other Adverse Conditions**

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)

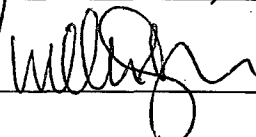
*Refer to CR 484417.*

Evaluated by: *James McKinney*



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**

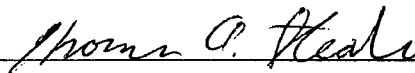
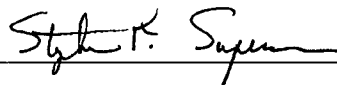
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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 SteahrDate: 08-07-2012Evaluated by: Stephen SupersonDate: 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**

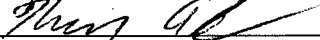
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

**Interaction Effects**

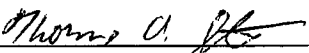
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

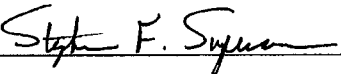
**Other Adverse Conditions**

- 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 2-CH-501 (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-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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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**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

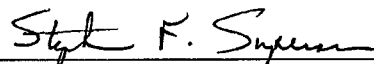
**Other Adverse Conditions**

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-509 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-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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

**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

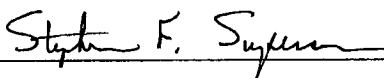
**Other Adverse Conditions**

- 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-514 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-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?  Y  N  U  N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 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?  
*Flex conduits attached.* Y N U N/A

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

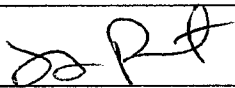
**Other Adverse Conditions**

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)

*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.)  
*SOV is mounted in-line on 5/8" piping. Reference ISO Drawing 25203-20135 SH 13, 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-048

**Interaction Effects**

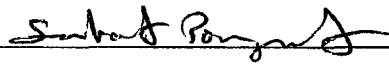
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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)

*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-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

**Interaction Effects**

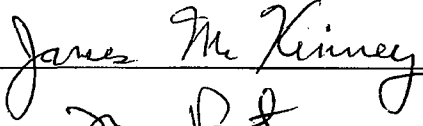
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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 interactions or adverse conditions.*

Evaluated by: 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-051Interaction 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? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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**

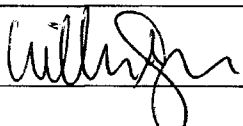
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

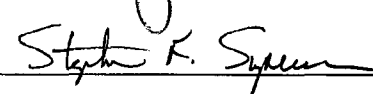
**Other Adverse Conditions**

- 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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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-053Interaction Effects

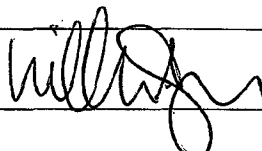
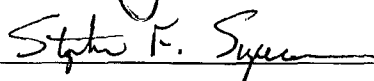
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: 08-15-2012Evaluated 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

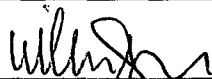
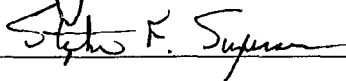
## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-054**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: *08-15-12*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? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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-055Interaction Effects

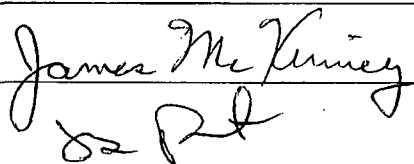
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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

Date: 08-16-2012Evaluated by: James PetroskyDate: 08-16-2012



## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-056AWC # MP2-WB-013Status Y  N  U Equipment ID No. M22F21B Equip. Class 10Equipment Description "B" Control Room A/C System Fan AssemblyLocation: 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? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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-056Interaction 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-057AWC # MP2-WB-008Status Y N UEquipment ID No. M2F54B Equip. Class 10Equipment Description "B" DC Room Air Conditioning Unit Fan AssemblyLocation: 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.)  
*SEWS F54B, Rev. 0*  
*Drawing No. 25203-24007*  
*Drawing No. 25203-28017* 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-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* ~~*Sombat Pornprasert*~~ <sup>1889 8-14-12</sup> Date: 08-14-2012

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

## Seismic Walkdown Checklist (SWC)

SWC # MP2 -WD-SWEL-058AWC # MP2-WB-015Status Y N UEquipment ID No. M2X181A Equip. Class 10Equipment Description "A" West 480V Load Center Room Cooling CoilLocation: 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? Y N U N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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**

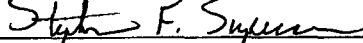
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?    Y N U

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

*None.*

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Evaluated by: Stephen Superson  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?  Y  N  U  N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*Reference SEWS FIA (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-059Interaction 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

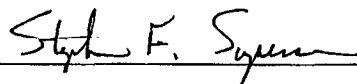
Other Adverse Conditions

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.)  
*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.* 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-060Interaction Effects

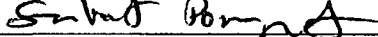
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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) 3/4" 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**

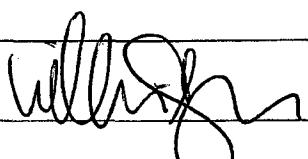
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

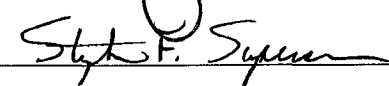
**Other Adverse Conditions**

- 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-063AWC # MP2-WB-007Status Y N UEquipment ID No. M2D12 Equip. Class 14Equipment 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-063Interaction 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-064AWC # MP2-WB-007Status Y  N  U Equipment ID No. M2DV10 Equip. Class 14Equipment Description 125 Volt DC Distribution PanelLocation: 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**

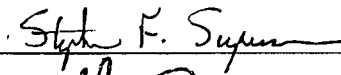
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

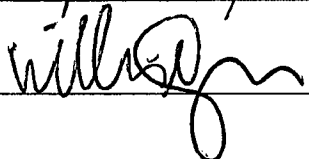
**Other Adverse Conditions**

- 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  Date: 08-17-2012

Evaluated by: William Price  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

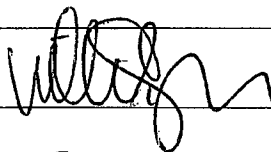
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**Comments** (Additional pages may be added as necessary)

*None.*

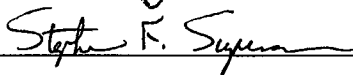
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Evaluated by: William Price



Date: 08-10-2012

Evaluated by: Stephen Superson



Date: 08-10-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-067AWC # MP2-WB-006Status Y N UEquipment ID No. M2DB1-201A Equip. Class 15Equipment Description "A" Volt DC Station BatteryLocation: 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**

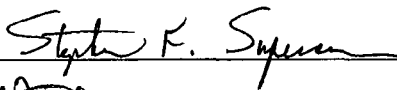
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A  
*Lights swivel, therefore no seismic concerns.*
  
- 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

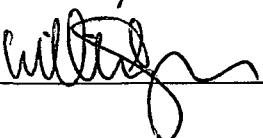
**Other Adverse Conditions**

- 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

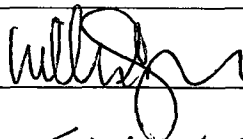
**Other Adverse Conditions**

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)

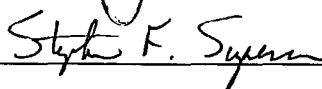
*None.*

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 SYSTEM SEEL COMPONENT MAIN 3 WKS INSPECTED  
 INTERNALLY DUE TO OPERATIONAL ACCESSIBILITY - NO DEGRADED  
 INTERNAL CONDITIONS FOUND J. PETRUSKY *[Signature]* 10/17/12  
 T. STEARNA *[Signature]* 10/17/12

Comments (Additional pages may be added as necessary)

None.

Evaluated by: William Price *[Signature]* Date: 08-10-2012

Evaluated by: Stephen Superson *[Signature]* Date: 08-10-2012



## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-070AWC # MP2-WB-001Status Y N UEquipment ID No. M2H7B Equip. Class 17Equipment Description "B" Emergency Diesel Generator AssemblyLocation: 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?  Y  N  U  N/A  
 (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).*
  
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

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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**

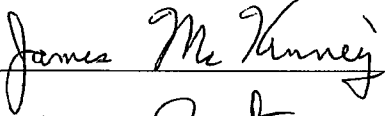
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

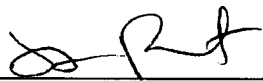
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**Comments** (Additional pages may be added as necessary)

*Anchorage and frame very robust relative to mass of attached instrumentation.*

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Evaluated by: 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)

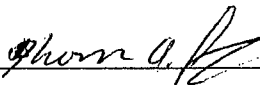
SWC # MP2-WD-SWEL-072Interaction Effects

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

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-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-073Interaction Effects

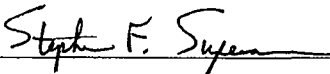
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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-074AWC # MP2-WB-035Status Y  N  U Equipment ID No. M2LT-5282 Equip. Class 18Equipment Description Condensate Storage Tank Level XMTRLocation: 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? Y  N  U  N/A   
 (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.
  
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-074Interaction Effects

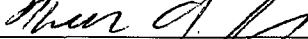
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  
*Reference SEWS LT-5282 (Rev. 1)* Y N U N/A
9. Do attached lines have adequate 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

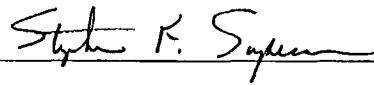
Other Adverse Conditions

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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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**

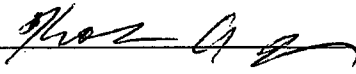
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

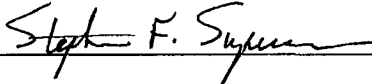
**Other Adverse Conditions**

- 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? Y N U N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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)

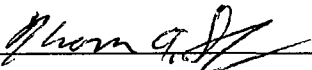
SWC # MP2-WD-SWEL-076**Interaction Effects**

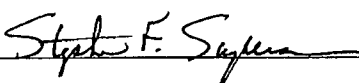
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: 08-07-2012

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? Y N U N/A  
 (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.*
  
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-077Interaction 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

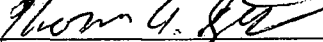
Other Adverse Conditions

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)

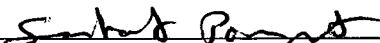
SWC # MP2-WD-SWEL-078Interaction Effects

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-079AWC # MP2-WB-002Status Y N UEquipment ID No. C126 Equip. Class 18Equipment Description Rack C126 for Boric Acid Tank LevelLocation: 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**

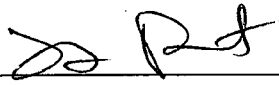
- 7. Are soft targets free from impact by nearby equipment or structures?  
*Non-seismic piping in overhead, but adequately restrained.*      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting,  
and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility to avoid damage?  
*Rigid conduit connections, but supported with U-bolt clamps and unistrut as evaluated in SEWS.*      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)

*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

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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

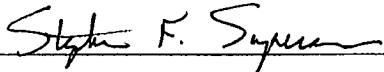
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U
- 

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

*Reference SEWS TE-351Y (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-081AWC # MP2-WB-019Status: Y  N  U Equipment ID No. M2ACT-5 / RC02B Equip. Class 20Equipment Description ESAS Actuation Cabinet 5Location: 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-081Interaction Effects

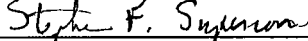
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: 08-16-2012

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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 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**

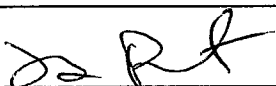
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

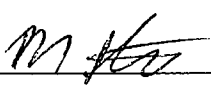
**Other Adverse Conditions**

- 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-083AWC # MP2-WB-019Status Y  N  U Equipment ID No. M2RC02D4 Equip. Class 20Equipment Description ESAS Actuation CabinetLocation: 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

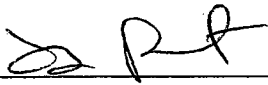
**Interaction Effects**


- 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 modified by MMOD M2-96569, adjacent cabinets bolted together to prevent seismic interaction. Implementation of MMOD resolved outlier issue from A-46 walkdowns.*

**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: 09-11-2012

Evaluated by: Tom Steahr  Date: 09-11-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-084AWC # MP2-WB-019Status Y N UEquipment ID No. M2C01X Equip. Class 20Equipment Description ESF status light panelLocation: 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-084Interaction Effects

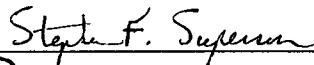
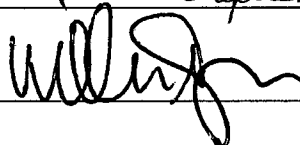
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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 SupersonDate: 08-16-2012Evaluated by: William PriceDate: 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? Y  N  U  N/A   
 (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).*
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y  N  U

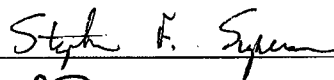
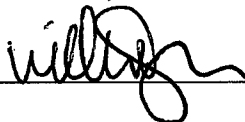
## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-086**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: 08-17-2012Evaluated 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? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

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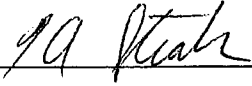
**Comments** (Additional pages may be added as necessary)

*Verified that cabinets C25A, C25B, C80 and C26 bolted together per MMOD M2-96569 to solve seismic interaction outlier identified in SEWS.*

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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-090AWC # MP2-WB-019Status Y N UEquipment ID No. M2C80 Equip. Class 20Equipment Description Control room vent control cabinetsLocation: 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

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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
- 

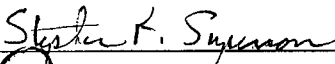
**Other Adverse Conditions**

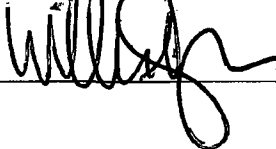
- 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U
- 

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

*None.*

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Evaluated by: Stephen Superson            Date: 08-16-2012

Evaluated by: William Price            Date: 08-16-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-091AWC # MP2-WB-019Status Y N UEquipment ID No. M2RC30A-1 Equip. Class 20Equipment Description Spec-200 Cabinet RC-30A-1Location: 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? Y N U N/A  
(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).*
  
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

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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
- 

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

*None.*

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Evaluated by: Stephen Superson      *Stephen F. Superson*      Date: 08-17-2012

Evaluated by: William Price      *William Price*      Date: 08-17-2012

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### 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

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

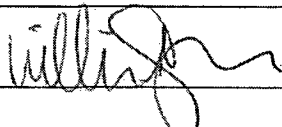
EQUIVALENT OPPOSITE TRAIN SSEL COMPONENT M2TØ4Ø WAS INSPECTED INTERNALLY DUE TO OPERATIONAL ACCESSIBILITY - NO DEGRADED INTERNAL CONDITIONS FOUND.

J. PETRESKY *JPS* 10/18/12  
T. STERN *TS* 10/18/12

Comments (Additional pages may be added as necessary)

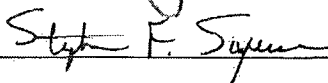
Reference SEWS T041 (Rev. 0).

Evaluated by: William Price



Date: 08-14-2012

Evaluated by: Stephen Superson



Date: 08-14-2012



### Seismic Walkdown Checklist (SWC)

SWC # MP2-WD-SWEL-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.)  
*Reference SEWS-T3Rev. 0*  
*Drawing No. 25203-11134, 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-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-094AWC # MP2-WB-035Status Y N UEquipment ID No. M2T40 Equip. Class 21Equipment Description Condensate Storage TANKLocation: 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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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-094Interaction 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

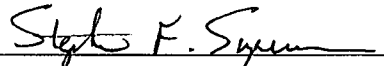
Other Adverse Conditions

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-095AWC # MP2-WB-034Status Y  N  U Equipment ID No. M2T41 Equip. Class 21Equipment Description REFUELING WATER STORAGE TANKLocation: 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? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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 *Thomas A. Steahr* Date: 08-06-2012

Evaluated by: Stephen F. Superson *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? Y  N  U  N/A   
 (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)*
  
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

---

**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)

*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

**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

*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-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.)  
*Anchorage is consistent with SEWS M2X18A sheets 1-6.* 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-098**


**Interaction Effects**

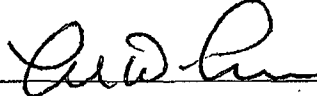
7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A  
*Instrument air line in overhead is small bore, adequately 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 OAB. Temporary green tagged scaffold in place is adequately braced and there is no adverse interaction.*

**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: 08-07-2012

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.)  
*Anchorage is consistent with SEWS sheets 1-9.* 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-099

**Interaction Effects**

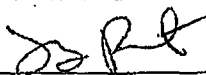
7. Are soft targets free from impact by nearby equipment or structures?    Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?    Y N U N/A  
*Overhead lighting fixtures are hung by ~1" diameter conduit 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 OAS and will have no adverse interaction with heat exchanger.*

**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 ID X20A (Rev. 1) Sheets 1-9  
 Drawing 25203-27018*

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?  Y  N  U  N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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?  
*Light fixtures supported by conduit have no adverse affect on the heat exchanger.*  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)

*Calculation Vectra MP202 Rev. 0 Section 5.3  
 SEWS X23A Rev. 0 SH1-3  
 Drawing 25203-27020  
 Drawing 25203-11085*

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

Evaluated by: Jack DiLuna *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

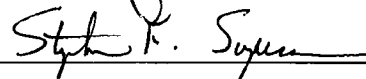
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**Comments** (Additional pages may be added as necessary)

*None.*

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

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

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

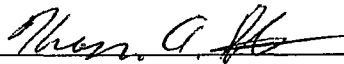
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**Comments** (Additional pages may be added as necessary)

*None.*

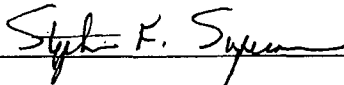
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Evaluated by: *Tom Steahr*



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

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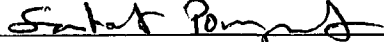
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

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

*None.*

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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 *JP* Date: 08-07-2012

Evaluated by: L. Jack DiLuna *LJD* Date: 08-07-2012

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-005Status Y N ULocation: 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

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

*None.*

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

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

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-006Status Y N ULocation: 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

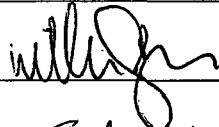
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**Comments** (Additional pages may be added as necessary)

*None.*

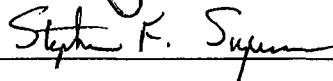
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Evaluated by: *William Price*



Date: *08-10-2012*

Evaluated by: *Stephen Superson*



Date: *08-10-2012*

### 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

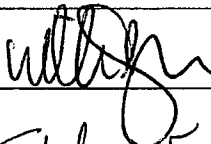
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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)

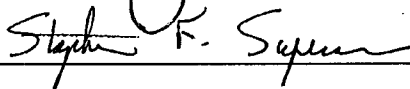
*None.*

Evaluated by: William Price



Date: 08-10-2012

Evaluated by: Stephen Superson



Date: 08-10-2012

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-008Status Y N ULocation: 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

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

*None.*

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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

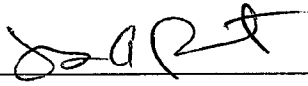
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**Comments** (Additional pages may be added as necessary)

*Although Physically separate, two rooms for MCC B51 and MCC B61 (Aux Bldg. 14'6") were included in this area walkby.*

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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.*

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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

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

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

Evaluated by: L. Jack DiLuna *LJD* Date: 08-07-2012

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-011Status Y N ULocation: 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

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

*Area walk-by was conducted at the "A" charging pump assembly.*

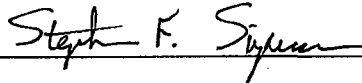
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Evaluated by: Thomas Steahr



Date: 08-09-2012

Evaluated by: Stephen F. Superson



Date: 08-09-2012

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-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


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

*Area walk-by was conducted at the "A" waste gas compressor assembly.*

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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

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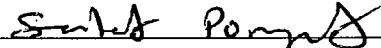
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

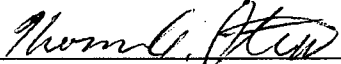
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**Comments** (Additional pages may be added as necessary)

*None.*

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

Evaluated by: Thomas 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

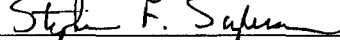
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y  N  U  N/A

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-015Status Y N ULocation: 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

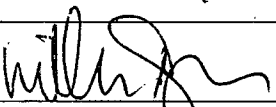
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

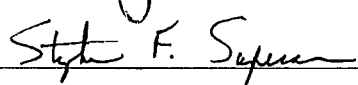
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

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 BLOCKWALL 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. PETRUSKY 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-016Status  Y  N  ULocation: 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

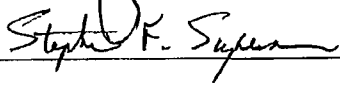
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

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

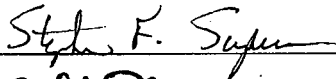
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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-018Status Y N ULocation: 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.*

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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

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Comments (Additional pages may be added as necessary)

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Evaluated by: Jim Petrosky *JP* Date: 08-09-2012

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

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-019Status Y N ULocation: 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-020Status Y N ULocation: 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

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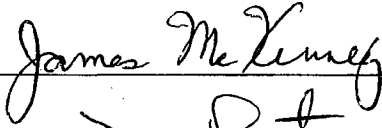
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U


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**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.*

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Evaluated by: James McKinney  Date: 08-16-2012

Evaluated by: James Petrosky  Date: 08-16-2012

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-021Status Y N ULocation: 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

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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


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**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.*

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Evaluated by: James McKinney  Date: 08-16-2012

Evaluated by: James Petrosky  Date: 08-16-2012

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-022Status Y N ULocation: 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

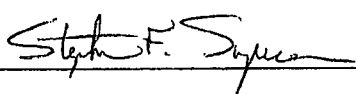
*Service Water Pump motor protection tank (for flood protection) not restrained to prevent tipping in accordance with procedure OA-8 requirements – CR 484290 written to document issue. No additional interactions noted.*

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

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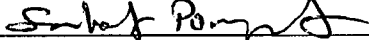
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

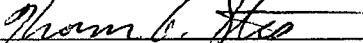
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**Comments** (Additional pages may be added as necessary)

*None.*

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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 *Sombat Pornprasert* Date: 08-14-2012

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

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-025Status  Y  N  ULocation: 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

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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

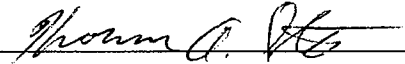
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**Comments** (Additional pages may be added as necessary)

*None.*

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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

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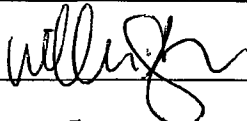
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U


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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

**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.*

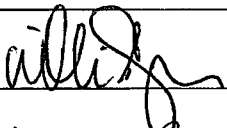
- 6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y  N  U  N/A

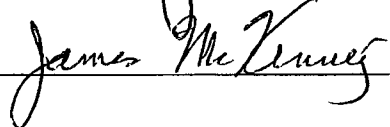
- 7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y  N  U  N/A

- 
- 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

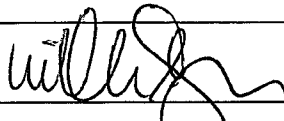
- 
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

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

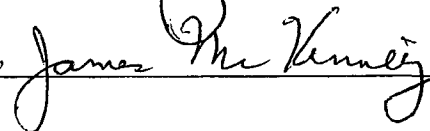
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Evaluated by: *William Price*



Date: 08-09-2012

Evaluated by: *James McKinney*



Date: 08-09-2012

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-029Status Y N ULocation: 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

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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

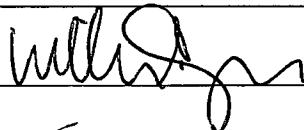
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**Comments** (Additional pages may be added as necessary)

*Area walk-by conducted at upper 4160V switchgear room cooling fan assembly M2F133.*

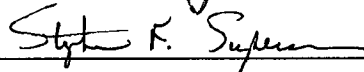
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Evaluated by: *William Price*



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

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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

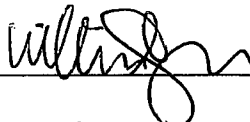
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**Comments** (Additional pages may be added as necessary)

*None.*

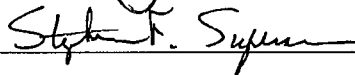
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Evaluated by: *William Price*



Date: *08-15-2012*

Evaluated by: *Stephen Superson*



Date: *08-15-2012*

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

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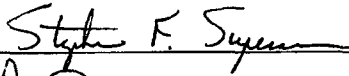
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

---

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

*Area Walk-By conducted at the Chilled Water Surge Tank, M2T98.*

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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

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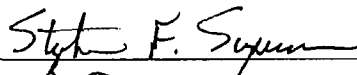
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

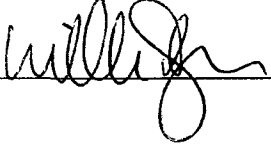
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**Comments** (Additional pages may be added as necessary)

*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-034Status Y N ULocation: 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

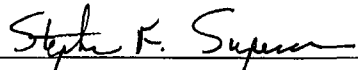
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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: Thomas A. Steahr  Date: 08-07-2012

Evaluated by: Stephan F. Superson  Date: 08-07-2012

## Area Walk-By Checklist (AWC)

AWC # MP2-WB-035Status Y N ULocation: 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

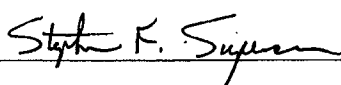
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**Comments** (Additional pages may be added as necessary)

*None.*

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Evaluated by: Thomas A. Steahr  Date: 08-07-2012

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

### 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

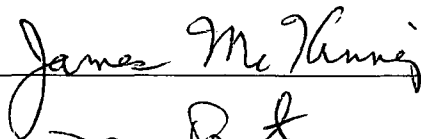
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**Comments** (Additional pages may be added as necessary)

*Area surrounding F14C in the -3' containment annulus was uncluttered and free of interactions.*

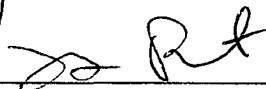
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Evaluated by: *James McKinney*



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 NRC's 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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- Appendix B.2 - Seismic Walkdown Equipment List (SWEL)
- Appendix B.3 - Area Walk-by List
- Appendix C - Seismic Walkdown Checklists (SWC)
- Appendix D - Area Walk-by Checklists (AWC)

## 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 NRC's 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 <sup>1</sup>	480V AC MOTOR CONTROL CENTER	Auxiliary Building	Spring 2013 RFO
M332-1U <sup>1</sup>	480V MCC 32-1U (EMERG) EMERGENCY GENERATOR	'B' Diesel Generator Room	Spring 2013 RFO
M332-2R <sup>1</sup>	480 VOLT MCC 32-2R(EMERG) ROD CONTROL	Auxiliary Building	Spring 2013 RFO
M332-1W <sup>1</sup>	480 VOLT MCC 32-1W(EMERG) AUX BLDG.	Auxiliary Building	Spring 2013 RFO
M332-4T <sup>1</sup>	480V MCC	ESF Building	Spring 2013 RFO
M332-5T <sup>1</sup>	480 VOLT MCC 32-5T(EMERG) CIRC WATER PUMP HOUSE	Circulating Water Pump House	Spring 2013 RFO
M332-2U <sup>1</sup>	480 VOLT MCC32-2U	Auxiliary Building	Spring 2013 RFO
M33BYS*PNL2 <sup>1</sup>	BATTERY BUS 2 (301B-1)	Control Building	Spring 2013 RFO
M33BYS*PNL1 <sup>1</sup>	BATTERY BUS 1 (301A-1)	Control Building	Spring 2013 RFO
M33VBA*XRC-2 <sup>1</sup>	VIAC-2 ALTERNATE SOURCE TRANSFORMER	Control Building	Spring 2013 RFO
M33LAC*EXL2P <sup>1</sup>	3LAC*PNL3C2P LIGHTING TRANSFORMER	Control Building	Spring 2013 RFO
M33SCV*XD5P <sup>1</sup>	AC DIST PANEL TRANSFORMER AUXILIARY	Auxiliary Building	Spring 2013 RFO
M33SCV*XD10 <sup>1</sup>	240V/120V STEP DOWN XFMR ORANGE	Control Building	Spring 2013 RFO
M33CES*PNLTSB <sup>1</sup>	B TRAIN TRANSFER SWITCH PANEL	Control Building	Spring 2013 RFO
M33BYS*CHGR-1 <sup>1</sup>	BATTERY CHARGER 1 (301A-1)	Control Building	Spring 2013 RFO
M33BYS*CHGR-3 <sup>1</sup>	BATTERY CHARGER 3 (301A-2)	Control Building	Spring 2013 RFO
M33VBA*INV1 <sup>1</sup>	INVERTER 1	Control Building	Spring 2013 RFO
M33VBA*INV3 <sup>1</sup>	INVERTER 3	Control Building	Spring 2013 RFO
M33CHS*ZT190B <sup>1</sup>	CHG HDR FLOW CNTRL VLV 3CHS*HCV190B ELEC CNTR MOD	Auxiliary Building	Spring 2013 RFO

<sup>1</sup> 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 <sup>1</sup>	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: -Seismic II over I criteria are not directly applicable because both components are safety related, engineered and analyzed components -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. -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. - 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

<sup>1</sup>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 SWITCH	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 SWITCH	3322	AFW	AOV	ES	FWA P1A ROOM	0022	
35	M333U-3FWA*AOV61B	S/G AUXILIARY FEEDWATER PUMP A SUCTION ISOL VLV OPEN LIMIT SWITCH	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" CHRNGNG 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	

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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 MISSILE BARRIER	3314A	RBV	FAN	AB		0066	
149	M33HVR*MIS13B	CHARGING PMP CUBE EXHST FAN FLEX CONNECTION MISSILE 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	

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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	

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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

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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

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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	

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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	



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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 H2O 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

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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

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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 TURBINÉ 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	

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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

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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

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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 DOWNSTREAM 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



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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	

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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

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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	

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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	

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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	

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ITEM	LOCAL ID	EQUIPMENT DESCRIPTION	LOC SYS	SYS	COMP	BLD	ROOM	EL FT	EL IN
585	M33CES*PNL BG3P	ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-PURPLE	3415	ELC	PNL	CB		0004	
586	M33CES*PNL BG4O	ISOLATION PANEL EMERGENCY SWITCHGEAR ROOM-ORANGE	3415	ELC	PNL	CB		0004	
587	M33CES*PNL BG4P	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*PNL TSA	TRANSFER SWITCH PANEL, TRAIN A	3415	ELC	PNL	CB		0004	
608	M33CES*PNL TSB	"B" TRAIN TRANSFER SWITCH PANEL	3415	ELC	PNL	CB		0004	

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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

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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*JB100	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*PNL100	120 VOLT VITAL PANEL	3345A	EVI	PNL	ES		0036	
646	M33SCV*PNL100(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	



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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	

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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	

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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	

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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

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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*IPNLCB10	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

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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	

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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	



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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		

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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	

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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	

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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 EXCHANGE AREA SUPPPPLY	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	

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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	

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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	

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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	

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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	



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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	

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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	

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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		

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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

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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

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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			

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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	

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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		

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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	

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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	

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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 TEMPERATURE CONTROL VALVE	3314D	ESG	VLV	ES		0000	00

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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	

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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	



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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				

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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-2H 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	

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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	

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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	

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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 TRANSMITTER	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	

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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 TRANSMTR	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	

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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 TRANSMTR	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 CHEMICAL & VOL CNTRL SYS PRESSURE CNTRL PRS TRANSMIT	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 ACID 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

Base List 1

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 TRANSMITT	3314F	CBW	XMT	CB		0069	
1648	M33HVK-PT48B	CHILLED WTR PMP 3HVK*P1B DISCHARGE PRESSURE IND PRESSURE TRANSMITT	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 SUPPLY PRESS IND PRESSURE TRANSMITTER	3316A	STG	XMT	ES		0004	
1678	M33MSS-PT514B	STM GEN 3RCS*SG1A STM LINE PRESSURE TRANSMITTER	3316A	STG	XMT	CS		0024	06
1679	M33MSS-PT524B	STM GEN 3RCS*SG1B STEAM LINE PRESS TRANSMITTER	3316A	STG	XMT	CS		0024	06
1680	M33MSS-PT534B	STM GEN 3RCS*SG1C 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	

Base List 1

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 POSITION 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*PNLR10	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

<b>Seismic Walkdown Equipment List (SWEL)</b>											
<b>Item #</b>	<b>Class</b>	<b>SGCS Function Reference</b>	<b>ID</b>	<b>Equipment Description</b>	<b>System</b>	<b>Bldg</b>	<b>Elev</b>	<b>Risk Significant (Y/N)</b>	<b>5 Safety Functions</b>	<b>Area Walkby</b>	<b>Notes</b>
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**

<b>GIP Equipment Class</b>	<b>Class Title</b>	<b>Equipment Count</b>
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**

<b>Local System</b>	<b>System Description</b>	<b>Equipment Count</b>
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
	<b>TOTAL</b>	<b>100</b>

\* Includes 4160V CHS & CCP Pump Transfer Switches 3305

**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?  Y  N  U  N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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

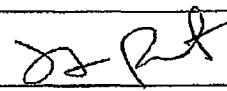
7. Are soft targets free from impact by nearby equipment or structures?    Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?    Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?    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

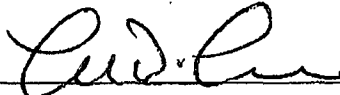
Other Adverse Conditions

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-009AWC # MP3-WB-013Status Y N UEquipment ID No. 3RCS\*ZT442B Equip. Class 20Equipment Description Reactor Vessel Vent Valve 3RCS\*HCV 442B Position XMTRLocation: 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?  
*Flex Conduit and cables from adjacent seismic cable tray.*      Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  
*Overhead cable trays seismically supported.*      Y N U

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**Other Adverse Conditions**

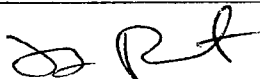
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U

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

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Evaluated by: James Petrosky



Date: 08/22/2012

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?  
*Flexible Conduit*      Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  
*No adverse interactions found*      Y N U

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**Other Adverse Conditions**

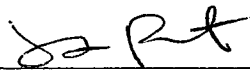
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U

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

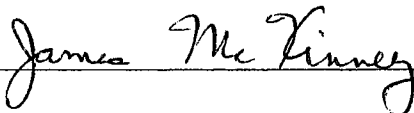
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Evaluated by: *James Petrosky*



Date: 08/22/2012

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

**Interaction Effects**

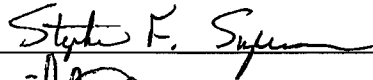
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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-015

**AWC #** MP3-WD-008

Status  Y  N  U

Equipment ID No. 3ENS\*SWGB Equip. Class 3

Equipment Description B 4.16KV Emergency 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**

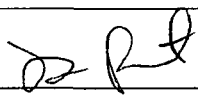
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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-016AWC # MP3-WD-014Status Y  N  U Equipment ID No. 3CCP\*TRS-P1C Equip. Class 3Equipment Description 34C10-2 Transfer Switch to 34D9-6 Reactor Cooling Pump 3CCP\*P1CLocation: 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?  
*Flex conduit connections*      Y  N  U  N/A
  
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  
*No adverse seismic interactions*      Y  N  U

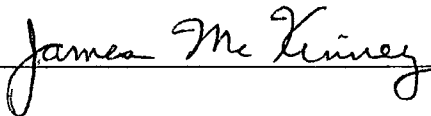
**Other Adverse Conditions**

- 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)

*3CCP\*TRS-PIC is comprised of 2 switches in one cabinet: 3CCP\*TRS-PIC/1 and 3CCP\*TRS-PIC/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-017Interaction Effects


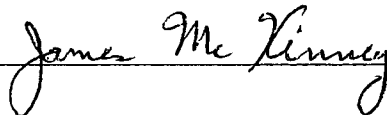
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?  
*Flex conduit connections* Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects?  
*No adverse seismic interactions* 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)

*3CHS\*TRS-P3C is comprised of 2 switches in one cabinet: 3CHS\*TRS-P3C/1 and 3CHS\*TRS-P3C/2.*

Evaluated by: James Petrosky

Date: 08/17/2012Evaluated 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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

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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 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.*

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**Other Adverse Conditions**

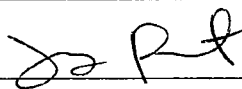
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

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

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Evaluated by: James Petrosky



Date: 08/22/2012

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

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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  
*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

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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)

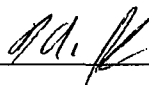
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Evaluated by: James Petrosky



Date: 08/22/2012

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\*PIA 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? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*Reference: Drawing No. 25212-11134 (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**

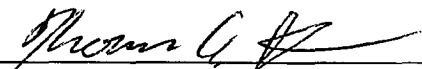
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y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

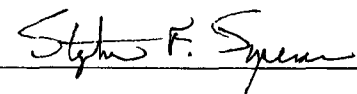
**Other Adverse Conditions**

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-025AWC # MP3-WB-001Status Y N UEquipment ID No. M33CCP\*P1A Equip. Class 5Equipment Description RBCCW Pump ALocation: 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.)  
*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* 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)

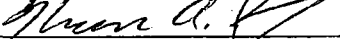
SWC # MP3 -WD-SWEL-025**Interaction Effects**

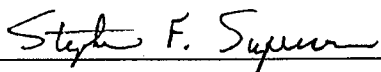
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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**

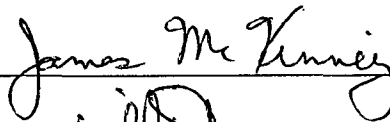
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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



Date: 08-08-2012

Evaluated by: William Price



Date: 08-08-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-027AWC # MP3-WB-023Status Y  N  U Equipment ID No. M33FWA\*PIA Equip. Class 5Equipment Description Motor Driven Steam Generator Aux Feed PumpLocation: 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? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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**

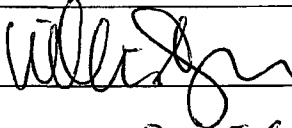
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

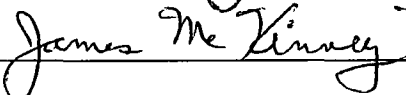
**Other Adverse Conditions**

- 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)

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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.)  
*References: Calculation No. 12179-C32.299*  
*Drawing No. 25212-11215, Rev. 6*  
*Drawing No. 25212-29041 Sheet 1, Rev. J*  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-028

**Interaction Effects**

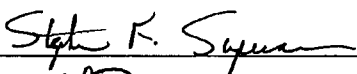
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y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

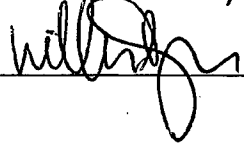
**Other Adverse Conditions**

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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 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.*

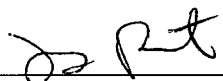
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

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-030AWC # MP3-WB-012Status Y  N  U Equipment ID No. M33SWP\*P2B Equip. Class 5Equipment 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.)  
*Reference: Drawing 2332-502-042-009*  
*Calculation No. 12179-C10.3 Rev. 0*  
*S&W Drawing No. 12179-EB-39H*  
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-030Interaction 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)

*Light Surface rust on one of the bolt head.*

Evaluated by: Sombat Pornprasert

Date: 08-13-2012Evaluated 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

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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

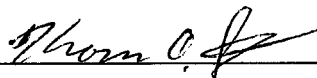
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U
- 

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

*None*

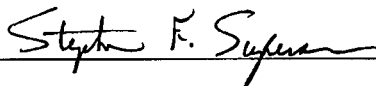
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Evaluated by: Thomas Steahr



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-033AWC # MP3-WB-019Status Y  N  U Equipment ID No. M33SWP\*P1A Equip. Class 6Equipment Description Service Water PumpLocation: Bldg. CW Floor El. 14' Room, Area SWAManufacturer, 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? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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**

**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?  
*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.* 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 Reference: Drawing No. 12179-EC-14L-8  
 Drawing No. 12179-EM-8A  
 Drawing No. 2332.502-004-011.*

Evaluated by: James Petrosky  Date: 08-06-2012

Evaluated by: Jack DiLuna  Date: 08-06-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-034AWC # MP3-WB-003Status Y N UEquipment ID No. M33CHS\*HVC182 Equip. Class 7Equipment Description RCP Seal Water Flow ControllerLocation: 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

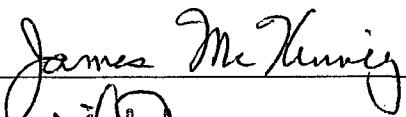
**Interaction Effects**

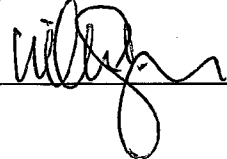
7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
9. Do attached lines have adequate flexibility to avoid 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  Date: 08-08-2012

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

## Seismic Walkdown Checklist (SWC)

SWC # MP3WD-SWEL-036AWC # MP3-WB-023Status Y  N  U Equipment ID No. M33FWA\*AOV62A Equip. Class 7Equipment Description 'A' Train Discharge Cross ConnectLocation: 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**

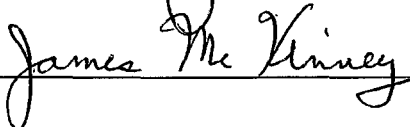
7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
9. Do attached lines have adequate flexibility to avoid 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-037AWC # MP3-WB-023Status Y N UEquipment ID No. M33MSS\*AOV31A Equip. Class 7Equipment Description Terry Turbine Steam Isolation From a S/GLocation: 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

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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-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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

**Interaction Effects**

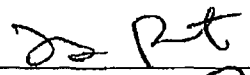
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A  
*Overhead fluorescent light fixtures were reviewed and are adequately 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

**Other Adverse Conditions**

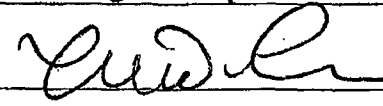
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

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

*References :Drawing No. 12179-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*

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? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

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

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*

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-040AWC # MP3-WB-027Status Y N UEquipment ID No. M33MSS\*RV23C Equip. Class 7Equipment Description C Steam Generator Safety ValveLocation: 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-042Interaction 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? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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**

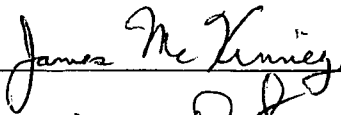
**Interaction Effects**


- 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  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**

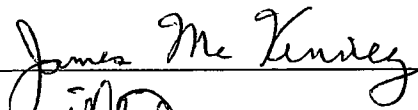
- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
  
- 9. Do attached lines have adequate flexibility to avoid 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

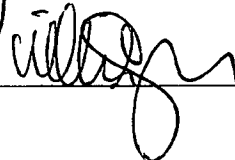
**Comments** (Additional pages may be added as necessary)

Evaluated by: James McKinney



Date: 08-08-2012

Evaluated by: William Price



Date: 08-08-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-045AWC # MP3-WB-029Status Y  N  U Equipment ID No. M33CHS\*LCV112B Equip. Class 8Equipment Description VCT Outlet IsolationLocation: 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-045Interaction Effects

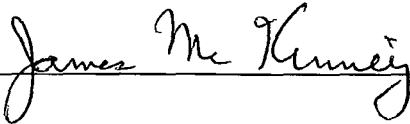
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A  
*Grating overhead and light bulb with protective cover found to 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

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-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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
- 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**

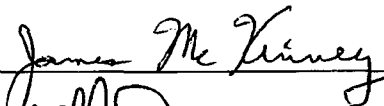
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U

---

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

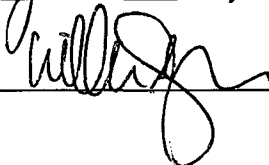
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Evaluated by: *James McKinney*



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

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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)

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Evaluated by: James McKinney

*James McKinney*

Date: 08-08-2012

Evaluated by: William Price

*William Price*

Date: 08-08-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-048AWC # MP3-WB-003Status Y N UEquipment ID No. M33CHS\*MV8110 Equip. Class 8Equipment Description Charging Recirc Isol to Seal WaterLocation: 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**

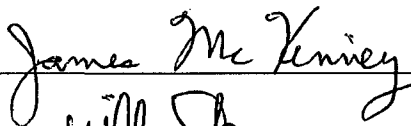
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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

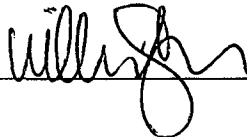
**Comments** (Additional pages may be added as necessary)

Evaluated by: James McKinney



Date: 08-08-2012

Evaluated by: William Price



Date: 08-08-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-050AWC # MP3-WB-004Status Y  N  U Equipment ID No. M33CHS\*MV8116 Equip. Class 8Equipment Description Safety Grade S/D Charging IsolLocation: 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? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
*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

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

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Evaluated by: *James McKinney*

*James McKinney*

Date: *08-08-2012*

Evaluated by: *William Price*

*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  Date: 08-08-2012

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

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-052AWC # MP3-WB-007Status Y  N  U Equipment ID No. M33CHS\*MV 8507B Equip. Class 8Equipment Description BAT B Gravity BorationLocation: 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

**Interaction Effects**

- 7. Are soft targets free from impact by nearby equipment or structures?  
*Overhead piping (4" line) adequately supported to preclude interaction.*      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 Petrosky *JP*      Date: 08-14-2012

Evaluated by: James McKinney *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?  Y  N  U  N/A  
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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

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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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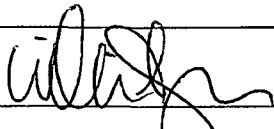
**Other Adverse Conditions**

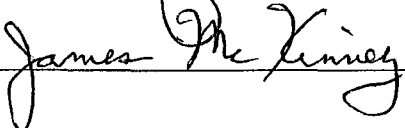
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U

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

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Evaluated by: 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

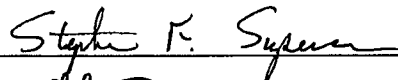
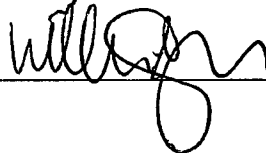
## Seismic Walkdown Checklist (SWC)

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

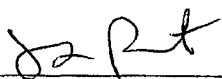
**Interaction Effects**

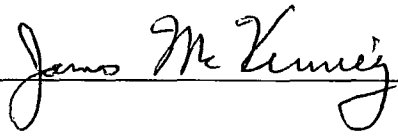
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A  
*Fluorescent lights are OK. Fire detector is OK.*
9. Do attached 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.*

**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-056

AWC # MP3-WB-024

Status Y N U

Equipment ID No. M33FWA\*MOV35A Equip. Class 8

Equipment Description Steam Generator Auxiliary FDW Isolation Valve

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**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-057AWC # MP3-WB-027Status Y  N  U Equipment ID No. M33MSS\*MOV74A Equip. Class 8Equipment Description Main Steam Pressure Relief Isolation Valve BypassLocation: 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?  Y  N  U  N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
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, Shi. 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?  
*In-line MOV, no anchorage.* Y  N  U



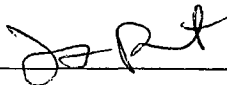
## Seismic Walkdown Checklist (SWC)

SWC # MP3-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?  
*Fluorescent lighting fixture properly restrained.* 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: James Petrosky  Date: 08-14-2012Evaluated by: James McKinney  Date: 08-14-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-061AWC # MP3-WB-022Status Y N UEquipment ID No. M33SIL\*MV8812A Equip. Class 8Equipment Description "A" RHR Pump Suction From RWSTLocation: 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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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? Y N U N/A  
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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 McKinney*      Date: 08-16-2012

Evaluated by: James Petrosky      *JP*      Date: 08-16-2012

**Seismic Walkdown Checklist (SWC)**SWC # MP3-WD-SWEL-063AWC # MP3-WB-021Status Y N UEquipment ID No. M33HVP\*FNIB Equip. Class 9Equipment Description Emergency Generator Building Supply FanLocation: 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
- 


**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.*

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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)

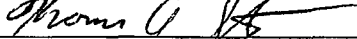
SWC # MP3-WD-SWEL-064**Interaction Effects**

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 #** 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-065Interaction 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

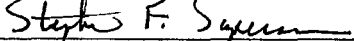
Other Adverse Conditions

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 # 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

**Interaction Effects**

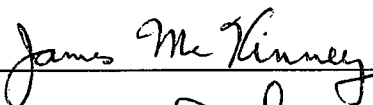
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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)

*Connected in series with 3HVR\*FN10B2*

Evaluated by: James McKinney  Date: 08-14-2012

Evaluated by: James Petrosky  Date: 08-14-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-067AWC # MP3-WB-012Status Y  N  U Equipment ID No. M33HVC\*ACU1B Equip. Class 10Equipment Description Control Room A/C Unit SupplyLocation: 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. 25212-29648 SH 535, Rev. 5*  
*Calculation No. 12179-C10.618 Rev. 0*  
*S&W Drawing no. 12179-EC-10L-2, 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-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? Y N U N/A  
 (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.*
- 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?  
*Fluorescent light supported by chain S-hooks (secured), based on size and weight there is no potential for adverse seismic interaction.*  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. 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-070AWC # MP3-WB-008Status Y N UEquipment ID No. 3BYS\*PNL2V Equip. Class 14Equipment Description 'B' Trtain DC Distribution PanelLocation: 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

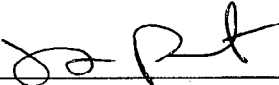
**Interaction Effects**

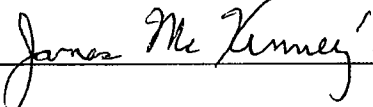
- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?  
*Seismic cable trays and ductwork.* Y N U N/A
  
- 9. Do attached lines have adequate flexibility to avoid damage?  
*4 flex conduit.* 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: 08-17-2012

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

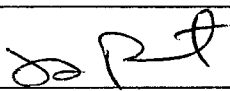
**Interaction Effects**

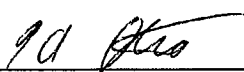
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

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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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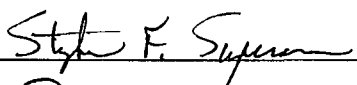
**Other Adverse Conditions**

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: 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

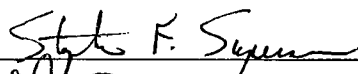
**Interaction Effects**

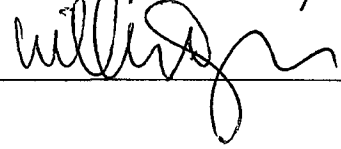
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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-079AWC # MP3-WB-020Status Y N UEquipment ID No. M3EGS\*EGB Equip. Class 17Equipment 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-079Interaction Effects

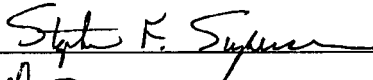
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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-080Interaction 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-081AWC # MP3-WB-011Status Y  N  U Equipment ID No. M33CES\*IPNLI20 Equip. Class 18Equipment Description Instrument Panel OrangeLocation: 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? Y  N  U  N/A   
(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.*
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
- 


**Other Adverse Conditions**

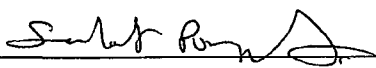
- 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?      Y N U
- 

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

*.None*

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Evaluated by: Tom Steahr  Date: 08-16-2012

Evaluated by: Sombat Pornprasert  Date: 08-16-2012

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## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-083AWC # MP3-WB-011Status Y  N  U Equipment ID No. M33RPS\*RAKSET1 Equip. Class 18Equipment Description Reactor Protection System Rack Set 1Location: 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.)  
*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-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
- 

#### Other Adverse Conditions

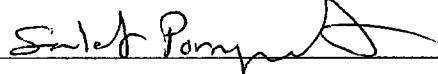
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?    Y N U
- 

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

*None.*

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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.)  
*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-084Interaction 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-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? Y N U N/A  
 (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.*
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

## Seismic Walkdown Checklist (SWC)

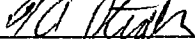
SWC # MP3-WD-SWEL-085Interaction Effects

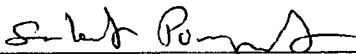
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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-086AWC # MP3-WB-011Status Y N UEquipment ID No. M33CES\*MCB-MB1 Equip. Class 20Equipment Description Main Control BoardLocation: 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 *Thomas A. Steahr* Date: 08-16-2012Evaluated by: Sombat Pornprasert *Sombat Pornprasert* 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? Y N U N/A  
 (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-12468.*
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

## Seismic Walkdown Checklist (SWC)

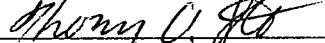
SWC # MP3-WD-SWEL-087**Interaction Effects**

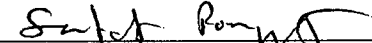
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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-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.)  
*As-installed configurations are consistent with E&DCR No. F-S-12468.* 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-088

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 *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.)  
*References: Drawing no.25212-39245 SH. 660,  
Calculation SEO-C10.30, 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 # MP3-WD-SWEL-089

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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
- 

**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-090AWC # MP3-WB-008Status Y N UEquipment ID No. 3RPS\*PNLAS Equip. Class 20Equipment Description Aux Shutdown Panel - BLocation: 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? Y N U N/A  
 (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.*
  
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U



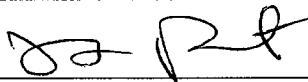
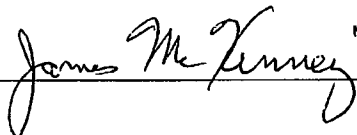
## Seismic Walkdown Checklist (SWC)

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?  
*Seismic restrained cable trays and ductwork.* Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?  
*Flex conduit electrical connections.* 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 PetroskyDate: 08-17-2012Evaluated by: James McKinneyDate: 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**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* Date: 08-07-2012

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

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-092AWC # MP3-WB-001Status Y N UEquipment ID No. M33CHS\*E4 Equip. Class 21Equipment Description Seal Water Heat ExchangerLocation: 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-092Interaction 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**

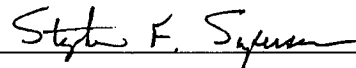
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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

**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

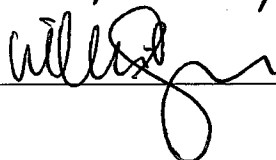
**Other Adverse Conditions**

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-095AWC # MP3-WB-021Status Y  N  U Equipment ID No. M33EGF\*TK2B Equip. Class 21Equipment Description Emergency Generator Fuel Oil Day TankLocation: 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? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)  
 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-095Interaction 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 *Sombat Pornprasert* Date: 08-13-2012

Evaluated by: Thomas Steahr *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? Y  N  U  N/A   
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
  
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**

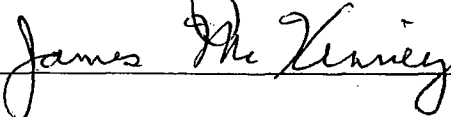
7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A  
*Note: lights appear to be adequately supported vertically (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? Y N U N/A  
 (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*
  
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

**Interaction Effects**

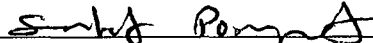
- 7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
  
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A
  
- 9. Do attached lines have adequate flexibility 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

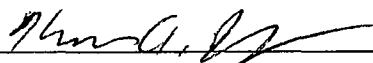
**Other Adverse Conditions**

- 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)

*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.*

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-098AWC # MP3-WB-032Status Y N UEquipment ID No. M33CCE\*TK1 Equip. Class 21Equipment Description CCE Surge TankLocation: 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?      Y N U  
*Potential interaction with Category I pipe support CP-372500-H001 addressed in CR 484958,*

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

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Evaluated by: James McKinney *James McKinney*      Date: 08-14-2012

Evaluated by: James Petrosky *J Petrosky*      Date: 08-14-2012

## Seismic Walkdown Checklist (SWC)

SWC # MP3-WD-SWEL-099AWC # MP3-WB-022Status Y  N  U Equipment ID No. M33RHS\*E1A Equip. Class 21Equipment Description Residual Heat ExchangerLocation: 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 support 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? Y  N  U  N/A   
 (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
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?  
*Light fixtures are suspended by chain with secured S-hooks, fixtures and bulbs will not pose any threat to heat exchanger.*  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**

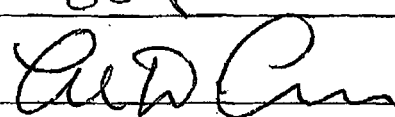
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment?  Y  N  U  
*See AWC# MP3-WB-022 for general housekeeping issues none of which adversely affect the RHR heat exchanger.*

**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-100AWC # MP3-WB-026Status Y N UEquipment ID No. M33SFC\*E1A Equip. Class 21Equipment Description Fuel Pool CoolerLocation: 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

**Interaction Effects**

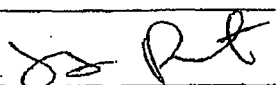
7. Are soft targets free from impact by nearby equipment or structures?      Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?      Y N U N/A  
*Overhead fluorescent light fixtures were reviewed and 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

**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).*

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

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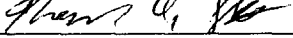
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

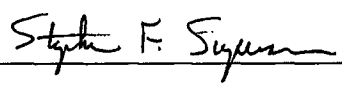
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**Comments** (Additional pages may be added as necessary)

None.

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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-002Status Y N ULocation: 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

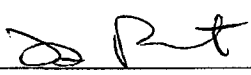
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

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

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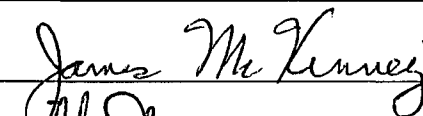
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

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Comments (Additional pages may be added as necessary)

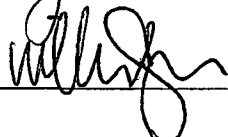
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Evaluated by: *James McKinney*



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

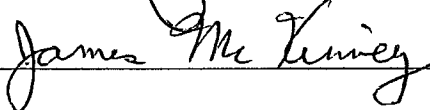
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

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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

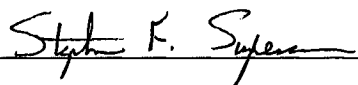
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**Comments** (Additional pages may be added as necessary)

*Area walk-by performed in area south of "B" Boric Acid Tank, 3CHS\*TK5B.*

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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 A. Steahr* Date: 08-09-2012

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

## Area Walk-By Checklist (AWC)

AWC # MP3-WB-007Status Y N ULocation: 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

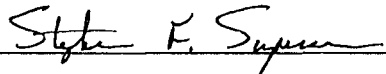
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**Comments** (Additional pages may be added as necessary)

*Area Walk-By performed in Boric Acid Tank 3CHS\*TK5A cubicle.*

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

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

## Area Walk-By Checklist (AWC)

AWC # MP3-WB-008Status Y N ULocation: 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)? *Seismically designed raceways and duct work.* 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-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

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Comments (Additional pages may be added as necessary)

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Evaluated by: James McKinney *James McKinney* Date: 08-17-2012

Evaluated by: James Petrosky *JP* Date: 08-17-2012

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## Area Walk-By Checklist (AWC)

AWC # MP3-WB-009Status Y N ULocation: 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

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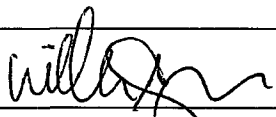
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

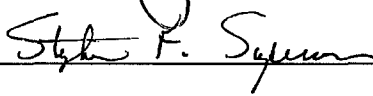
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**Comments** (Additional pages may be added as necessary)

*Area walk-by conducted in battery room No. 2 [Battery 2 (301B-1)] and in battery room No. 4 [Battery 4 (301B-2)].*

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Evaluated by: William Price  Date: 08-16-2012

Evaluated by: Stephen Superson  Date: 08-16-2012



## Area Walk-By Checklist (AWC)

AWC # MP3-WB-010Status Y N ULocation: 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)?  
*HVAC ducts, cable trays, FP piping well supported in overhead and do not adversely impact any equipment in room.* 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)?  
*Lighting fixtures are supported from ceiling with chain and secured s-hooks and do not adversely impact any equipment in room.* 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-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 OA 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-011Status  Y  N  ULocation: 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

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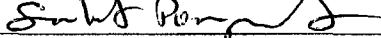
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

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

*None.*

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Evaluated by: *Sombat Pornprasert*  Date: 08-16-2012

Evaluated by: *Thomas Steahr*  Date: 08-16-2012

## Area Walk-By Checklist (AWC)

AWC # MP3-WB-012Status Y N ULocation: 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

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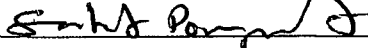
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

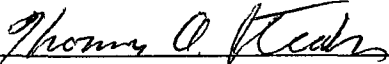
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**Comments** (Additional pages may be added as necessary)

*Area walk-by performed in vicinity of booster pump M33SUP\*P2B.*

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Evaluated by: Sombat Pornprasert  Date: 08-13-2012

Evaluated by: Thomas Steahr  Date: 08-13-2012

## Area Walk-By Checklist (AWC)

AWC # MP3-WB-013Status Y N ULocation: 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)?  
*HVAC and cable trays are well supported and do not have potentially adverse interaction with equipment.* 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)?  
*Light fixtures are hung by chain with secured s-hooks and do not pose a potential adverse interaction with equipment.* 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-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-014Status  Y  N  ULocation: 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

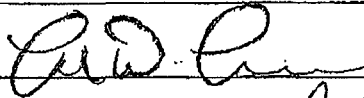
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

*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


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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

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

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

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

## Area Walk-By Checklist (AWC)

AWC # MP3-WB-019Status 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)**

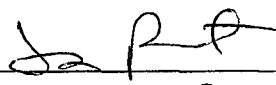
**AWC #** MP3-WB-019

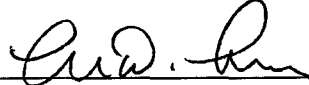
5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y  N  U  N/A
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y  N  U  N/A
7. Does it appear that 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\*STRIC was noted, a trouble report was previously submitted, no further action is required.*

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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

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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

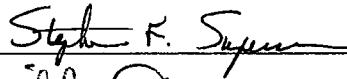
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**Comments** (Additional pages may be added as necessary)

*None.*

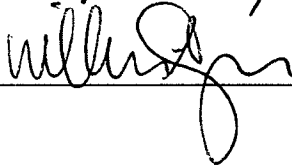
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Evaluated by: *Stephen Superson*



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

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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

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

*None.*

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Evaluated by: Sombat Pornprasert *Sombat Pornprasert* Date: 08-13-2012

Evaluated by: Thomas Steahr *Thomas A. 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 OA 8. Specifically jacketed insulation segments were stored on the floor throughout the room, along with other items. Most were not secured per OA 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\*MV3812A. 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

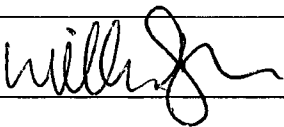
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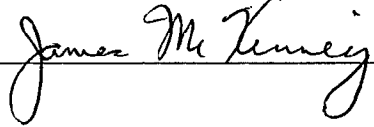
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

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

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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

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Comments (Additional pages may be added as necessary)

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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

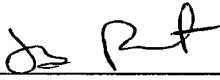
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

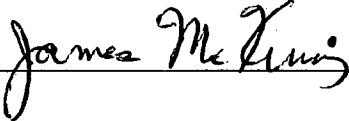
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A  
*See comments below.*

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"- Room, Area Spent Fuel Cooling Pumps & Hx Areas  
45'6"

#### 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   
*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.*

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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

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

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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 OA-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-028Status Y N ULocation: 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

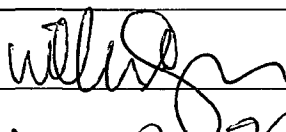
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y  N  U  N/A

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

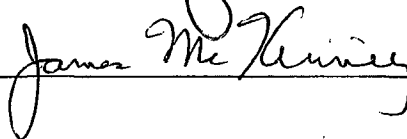
Comments (Additional pages may be added as necessary)

Evaluated by: William Price



Date: 08-07-2012

Evaluated by: James McKinney



Date: 08-07-2012



## Area Walk-By Checklist (AWC)

AWC # MP3-WB-029Status 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.*

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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

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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

### 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

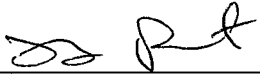
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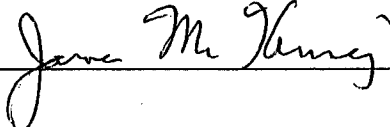
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

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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

## Area Walk-By Checklist (AWC)

AWC # MP3-WB-031Status 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?  
*Adjacent FP lines well supported with U-bolts.* Y N U N/A

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

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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.*

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

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Evaluated by: James Petrosky *JP* Date: 08-14-2012

Evaluated by: James McKinney *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

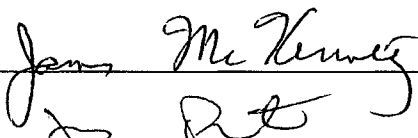
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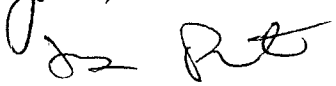
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y  N  U

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

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Evaluated by: James McKinney  Date: 08-14-2012

Evaluated by: James Petrosky  Date: 08-14-2012