

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

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U.S. Nuclear Regulatory Commission
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Washington, DC 20555

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License Nos. NPF-4/7

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 AND 2
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 Virginia Electric and Power Company (Dominion) used to conduct its seismic walkdowns for North Anna Power Station (North Anna) Units 1 and 2. Attachment 1, on the attached compact disc, provides the walkdown report as Dominion's response to Seismic Recommendation 2.3 for North Anna Units 1 and 2. Attachment 2 provides a list of items for which inspections could not be completed due to inaccessibility and a schedule for 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 North Anna Units 1 and 2 by January 31, 2014.

In addition to the walkdowns being performed to satisfy Recommendation 2.3, Dominion is separately performing a re-evaluation of the plant equipment identified in the IPEEE submittal with a High Confidence Low Probability of Failure (HCLPF) capacity less than 0.3g to assess potential improvements as part of our commitments following the earthquake of August 23, 2011.

A001
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ATTACHMENT 1

(See attached compact disc)

NORTH ANNA SEISMIC WALKDOWN SUMMARY REPORT

**VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 AND 2**

ATTACHMENT 2

LIST OF INACCESSIBLE ITEMS

**VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION UNITS 1 AND 2**

Table 3-1: Unit 1 Deferred Walkdown Items

ID Number	Description	Location	Inspection Completion Schedule
1-SI-S-B2	LHSI Pump Strainer Module #B-2	Containment	Fall outage 2013
1-RS-S-B10	Recirc Spray Pump Strainer Module #B-10	Containment	Fall outage 2013
1-EE-MCC-1J1-2S	1J1-2S Motor Control Center 1-EP-MC-22	Auxiliary Building	Fall outage 2013
1-EE-MCC-1J1-3*	1J1-3 Motor Control Center 1-EP-MC-33	SWPH	Fall outage 2013
1-EE-MCC-1J1-1A*	1J1-1A Motor Control Center 1-EP-MC-13	Service Building	Fall outage 2013
1-EP-BKR-BYB	B BYPASS REACTOR TRIP BREAKER	Auxiliary Building	Fall outage 2013
1-EE-SS-1J1	1J1 480 Volt Emergency Switchgear 1-EE-SS-04	Auxiliary Building	Fall outage 2013
1-EE-SW-1J	4160 V Emergency Bus "1J" (1-EE-SW-02)	Service Building	Fall outage 2013
1-EE-TRAN-13R*	Heat Trace Distribution Panels 1-EPCB-13AR/BR TRANSF (TRANS13R)	Auxiliary Building	Fall outage 2013
1-RC-PCV-1455C	Pressurizer PORV	Containment	Fall outage 2013
1-BD-TV-100D	B Steam Generator Blowdown Inside Trip Valve	Containment	Fall outage 2013
1-RC-MOV-1535	Pressurize PORV Block Valve	Containment	Fall outage 2013
1-RH-MOV-1720B	Residual Heat Removal To C RCS Loop	Containment	Fall outage 2013
1-SI-MOV-1865C	C SI Accumulator Discharge Isolation Valve	Containment	Fall outage 2013
1-RC-SOV-102A2	Pressurizer Vent Line Solenoid Operated Valve	Containment	Fall outage 2013
1-EP-CB-12D	125 VDC Distribution Panel 1-IV	Service Building	Fall outage 2013
1-EP-CB-80D	120 VAC Instrumentation Distribution Panel 1-IV	Service Building	Fall outage 2013
1-VB-INV-04	Vital Bus Distribution Panel 1-IV Inverter	Service Building	Fall outage 2013
1-RC-PT-1472	Pressurizer Relief Tank Pressure Transmitter	Containment	Fall outage 2013
1-FW-LT-1497	C Main Feedwater to C S/G Flow Transmitter	Containment	Fall outage 2013
1-RS-LT-151B-1	Containment Sump High Level Transmitter	Containment	Fall outage 2013
1-EP-CB-121A	AR-LA3 Auxiliary Relay Panel	Service Building	Fall outage 2013
1-EP-CB-121B	AR-LB3 Auxiliary Relay Panel	Service Building	Fall outage 2013

Table 3-1: Unit 1 Deferred Walkdown Items

ID Number	Description	Location	Inspection Completion Schedule
1-EP-CB-116C	Containment Isolation Trip Valve Relay Panel	Auxiliary Building	Fall outage 2013
1-EI-CB-25*	HIC Power Supply Panel	Service Building	Fall outage 2013
1-RS-E-1C	Inside Recirc Spray Cooler C	Containment	Fall outage 2013
1-EP-CB-116A	Containment Isolation Trip Valve Relay Panel	Auxiliary Building	Fall outage 2013
1-EE-EG-03C	Emergency Diesel Generator 1J Control Cabinet	Service Building	Fall outage 2013
1-EP-CB-13AR*	Heat Trace Distribution Cabinet	Auxiliary Building	Fall outage 2013
1-EG-PNL-1J*	EDG Control Panel (1J EDG Gauge Panel)	Service Building	Fall outage 2013
1-GN-TK-1B	1-RC-PCV-1455C Pressurizer PORV Nitrogen Reserve Tank	Containment	Fall outage 2013
1-RS-E-1D	Inside Recirc Spray Cooler D	Containment	Fall outage 2013

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

Table 3-2: Unit 2 Deferred Walkdown Items

ID Number	Description	Location	Inspection Completion Schedule
2-EE-MCC-2H1-2S	Motor Control Center 2H1-2S (2-EP-MC-20)	Auxiliary Building	Spring outage 2013
2-EE-MCC-2H1-3A*	Motor Control Center 2H1-3A (2-EP-MC-50)	SWVH	Spring outage 2013
2-EE-MCC-2H1-1A*	Motor Control Center 2H1-1A (2-EP-MC-12)	Service Building	Spring outage 2013
2-EE-SS-2H1	2H1 480 VOLT Emergency Switchgear 2-EE-SS-03	Auxiliary Building	Spring outage 2013
2-EE-SW-2H	4160V Emergency Bus "2H" (2-EE-SW-01)	Service Building	Spring outage 2013
2-EE-TRANS-42N-2*	HT Distribution & Control Panels 2-EP-CB-42AN/BN/N1 Transformer (TRANS 42N-2)	AFW Pump House	Spring outage 2013
2-EP-CB-42AN*	Heat Tracing Distribution Panel	AFW Pump House	Spring outage 2013
2-EP-CB-12A	125 VDC Distribution Panel 2-I	Service Building	Spring outage 2013
2-VB-INV-02	Vital Bus Distribution Panel 2-II Inverter	Service Building	Spring outage 2013
2-EP-CB-121B	AR-LB3 Auxiliary Relay Panel	Service Building	Spring outage 2013
2-EI-CB-115A	Containment Isolation Trip Valve Relay Panel	Auxiliary Building	Spring outage 2013
2-EI-CB-25*	HIC Power Supply Cabinet	Service Building	Spring outage 2013
2-EI-CB-115B	Containment Isolation Trip Valve Relay Panel	Auxiliary Building	Spring outage 2013
2-EP-CB-121A	AR-LA3 Auxiliary Relay Panel	Service Building	Spring outage 2013
2-EE-EG-02C	Emergency Diesel Generator 2H Control Cabinet	Service Building	Spring outage 2013
2-EP-CB-42N1*	Heat Tracing Controller Cabinet	AFW Pump House	Spring outage 2013
2-EG-PNL-2H*	2H EDG Gauge Panel	Service Building	Spring outage 2013

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

Dominion

**Virginia Electric and Power Company
North Anna Power Station Units 1 and 2**

Seismic Walkdown Summary Report

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

November 2012

Executive Summary

On March 12, 2012, the U.S. Nuclear Regulatory Commission (NRC) staff issued requests for information pursuant to 10 CFR 50.54(f) related to the Near Term Task Force (NTTF) recommendations. Enclosure 3 of the NRCs 50.54(f) letter requested utilities to provide information related to NTTF Recommendation 2.3: Seismic, as amended by the SRMs 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 North Anna Power Station (NAPS) 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 (Fall 2013 for Unit 1 and Spring 2013 for Unit 2). A revised Summary Report will be issued following completion of the seismic walkdowns.

By completing and documenting the requested seismic walkdowns for NAPS, 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 NAPS corrective action program (CAP). To date, no significant issues that challenged the NAPS seismic licensing or design basis have been identified as a result of the walkdowns.

North Anna Power Station 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 NRCs 50.54(f) letter addressed providing information related to NTTF Recommendation 2.3: Seismic, as amended by the SRMs associated with SECY-11-0124 and SECY-11-0137. Enclosure 3 requested that licensees:

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

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

The guidance contained in EPRI 1025286 was developed to meet NRC's objectives, and in a letter dated May 31, 2012 (Reference 3), the NRC confirmed that the EPRI 1025286 guidance directs licensees to perform walkdowns in a manner that will address Requested Information Items 1.a through 1.g in the 50.54(f) letter. The NRC staff also confirmed that Section 8, "Submittal Report," of the EPRI 1025286 guidance outlines the appropriate information to be submitted in response to Requested Information Items 2.a through 2.f. of Enclosure 3 of the 50.54(f) letter.

Dominion used the EPRI 1025286 guidance in developing and performing the seismic walkdowns at North Anna Power Station (NAPS) 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. The Report includes seismic walkdown information for both North Anna Units 1 and 2, consistent with previous submittals in response to NRC Generic Letters 88-20, Supplement 4 and 5, *Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities* and 87-02, *Verification of Seismic Adequacy of Mechanical and Electrical Equipment in Operating Reactors, Unresolved Safety Issue (USI) A-46*. Seismic walkdown equipment lists and walkdown results are provided on a unit-specific basis within the Report.

1.0 Seismic Licensing Basis Summary

As described in the Updated Final Safety Analysis Report (UFSAR), Section 2.5.2.6, the earthquake producing the maximum vibratory accelerations at the site is designated as the design-basis earthquake (DBE). The earthquake producing one-half the maximum vibratory accelerations at the site is designated the operating-basis earthquake (OBE).

For the purpose of establishing a DBE, it was assumed that an earthquake equal to the largest shock associated with the Arconia Syncline might occur close to the site area. With the epicenter of a shock similar to the 1875 intensity-VII Arconia earthquake shifted to the vicinity of the site, it was estimated that the maximum horizontal ground acceleration at the rock surface would be less than 0.12g. Accordingly, the DBE for structures founded on rock was taken at 0.12g for horizontal ground motion and two-thirds that value for vertical ground motion. For structures founded on soil, the design-basis earthquake was taken at 0.18g for horizontal motion and 0.12g for vertical motion. On a conservative basis, Seismic Class I structures and systems were designed to respond elastically, with no loss of function, to horizontal ground accelerations as high as 0.06g for structures founded on rock and as high as 0.09g for structures founded on soil (OBE).

In 1991, the NRC issued Generic Letter (GL) 88-20, Supplement 4, which requested licensees to perform an Individual Plant Examination of External Events (IPEEE) for severe accident vulnerabilities in accordance with the guidelines provided in NUREG-1407. In 1997, Dominion submitted a summary report of the results of the IPEEE program (Reference 5). In addition, Dominion indicated that the IPEEE program would be integrated with the Unresolved Safety Issue (USI) A-46 program to reduce duplicative examination and review efforts. As described in UFSAR 3.7.3.2.2.4, NAPS adopted the methodology in the Generic Implementation Procedure (GIP) for Seismic Evaluation of Nuclear Plant Equipment as an alternative means for seismic design and verification of existing, modified, new and replacement equipment.

As described in UFSAR 2.5.2.5.1, the United States Geological Survey (USGS) reported a Magnitude 5.8 earthquake occurred August 23, 2011 with a seismic epicenter located approximately 11 miles from North Anna Power Station. The recorded motions at the containment basemat were used to develop time-histories and amplified response spectra (ARS) for comparison to the DBE ARS. As described in UFSAR Section 3.7.7, Dominion implemented a long term seismic margin management plan (SMMP) to address the impact of the August 23, 2011 earthquake. The SMMP provides additional assurance that North Anna can operate safely in the long-term and is capable of withstanding another earthquake. The in-structure response spectra (ISRS) calculated from the recorded time-histories of the August 23, 2011 earthquake are used in the SMMP evaluations for design changes and for the seismic qualification of new and replacement equipment.

A listing of structures, systems and components that are designed to seismic and tornado criteria are included in UFSAR Table 3.2-1. Codes, standards, and methods related to the definition of the design basis earthquake and the design of structures, systems, and components at NAPS can be found in UFSAR Sections 2.5, 3.7, and 3.8.

2.0 Personnel Qualifications Summary

A summary of the 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 Individual Plant Examination for External Events (IPEEE) program.

Equipment Selection Personnel: Amanda McEnroe 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: Ellery Baker, David DeMello, William Gallagher, Xuan Hoang, Tim Knoebel, Glenn A. Gardner, Amanda McEnroe, and Daniel J. Vasquez

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: Amanda McEnroe, Daniel J. Vasquez

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 (Team Lead) and Leo Nadeau.

Appendix A provides the qualifications of the personnel involved in performing the seismic walkdown activities at NAPS.

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 to be 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 components from the seismic safe shutdown equipment list (SSEL). The other is a sample of components associated with the spent fuel pool (SFP). 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 composite 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* and NRC Generic Letter 88-20, Supplement 4 and 5, *Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities*.

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 90 to 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 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 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 were identified from a review of the Probability Risk Assessment (PRA) Risk Analysis notebooks. This information was reviewed by PRA subject matter experts 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 base equipment list used as a starting point for development of the SWEL 1 list for each unit was the composite 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* and NRC Generic Letter 88-20, Supplement 4 and 5, *Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities*. The composite USI A-46 and IPEEE SSEL was documented in Virginia Electric and Power Company's (VEPCO) response to USNRC GL 88-20 Supplements 4 and 5 dated May 27, 1997 (Reference 5). The composite SSEL was also documented in VEPCO's response to GL 87-02 dated May 27, 1997 (Reference 6). Thus Base List 1, as defined by EPRI 1025286, is the composite USI A-46 and IPEEE SSEL for both units.

The five sample selection attributes, described in Section 3.1, were 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 9, 12, and 13 for either Unit 1 or Unit 2.
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 IPEEE program documentation was reviewed to determine equipment that had been modified or otherwise enhanced to reduce IPEEE vulnerabilities. A sample of these items are included on the Unit 1 SWEL 1 list, and on the Unit 2 SWEL 1 list.

The resulting sample size of the equipment for the SWEL 1 list was 101 items per unit. The unit-specific SWEL 1 lists are provided in Appendix B.

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

In addition, SWEL 1 was reviewed for risk significant items by a PRA subject matter expert to confirm that risk insights were adequately considered. It was determined that 49 of the 101 items on the Unit 1 SWEL 1 and 50 of the 101 items on the Unit 2 SWEL 1 are risk significant.

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 level in the SFP to less than ten feet above the fuel. The review was supported by a licensed operator and knowledgeable system engineers.

Sample of Seismic Category I SSCs

The following seismic category I systems associated with the SFP were identified:

- Spent Fuel Pool Cooling and Purification System
- Service Water System

These systems were then reviewed using the walkdown item sample selection criteria similar to that used for SWEL 1, consistent with the guidance in EPRI 1025286. Base List 2 and the items identified for inclusion in SWEL 2 are identified in Appendix B.

Service Water System

Large portions of the Service Water System were already included on the SSEL and SWEL 1. The drawings related to the Service Water System make-up to the SFP were reviewed, and no new Service Water System SSCs were identified for SWEL 2.

Spent Fuel Pool Cooling and Purification (FC) System

The FC system interfaces with the SFP. The seismic category I components that are appropriate for the equipment walkdown process, consistent with EPRI 1025286 guidance, comprise Base List 2. A sample of these components was selected to form

the SWEL 2 list.

Rapid Drain-down Items

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 fuel. As stated in UFSAR Section 9.1.3.2, fuel pit piping penetrations are located so that at least 23 feet, 1 inch of water would remain above the active portions of the spent fuel assemblies stored in the pit even if the water should drain through the penetrations. Therefore, no rapid drain-down items were added to the SWEL 2 list.

SWEL

The SWEL was developed by combining the items on SWEL 1 and SWEL 2. The Unit 1 and Unit 2 SWELs are provided in Appendix B.

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). For Unit 1, 45 of the 80 items that included anchorage (56%) were selected for confirmation that the as-installed equipment anchorage is consistent with plant documentation of the anchorage design. For Unit 2, 42 of the 77 items that included anchorage (55%) were selected for confirmation that the as-installed equipment anchorage is consistent with plant documentation of the anchorage design. The selected items are indicated on the SWEL.

This list is the input to the seismic walkdowns to be conducted in accordance with EPRI Report 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 32 items on the Unit 1 SWEL and 17 items on the Unit 2 SWEL that were not sufficiently accessible to complete the walkdown inspection. These items are listed in Tables 3-1 and 3-2 below and indicated by a footnote on the Unit 1 and Unit 2 SWELs (Appendix B). The walkdowns for these items are planned to be completed by the end of the next scheduled refueling outage (Fall 2013 for Unit 1 and Spring 2013 for Unit 2).

Table 3-1: Unit 1 Deferred Walkdown Items

ID Number	Description	Location	Inspection Completion Schedule
1-SI-S-B2	LHSI Pump Strainer Module #B-2	Containment	Fall 2013 RFO
1-RS-S-B10	Recirc Spray Pump Strainer Module #B-10	Containment	Fall 2013 RFO
1-EE-MCC-1J1-2S	1J1-2S Motor Control Center 1-EP-MC-22	Auxiliary Building	Fall 2013 RFO
1-EE-MCC-1J1-3*	1J1-3 Motor Control Center 1-EP-MC-33	SWPH	Fall 2013 RFO
1-EE-MCC-1J1-1A*	1J1-1A Motor Control Center 1-EP-MC-13	Service Building	Fall 2013 RFO
1-EP-BKR-BYB	B BYPASS REACTOR TRIP BREAKER	Auxiliary Building	Fall 2013 RFO
1-EE-SS-1J1	1J1 480 Volt Emergency Switchgear 1-EE-SS-04	Auxiliary Building	Fall 2013 RFO
1-EE-SW-1J	4160 V Emergency Bus "1J" (1-EE-SW-02)	Service Building	Fall 2013 RFO
1-EE-TRAN-13R*	Heat Trace Distribution Panels 1-EP-CB-13AR/BR TRANSF (TRANS13R)	Auxiliary Building	Fall 2013 RFO
1-RC-PCV-1455C	Pressurizer PORV	Containment	Fall 2013 RFO
1-BD-TV-100D	B Steam Generator Blowdown Inside Trip Valve	Containment	Fall 2013 RFO
1-RC-MOV-1535	Pressurize PORV Block Valve	Containment	Fall 2013 RFO
1-RH-MOV-1720B	Residual Heat Removal To C RCS Loop	Containment	Fall 2013 RFO
1-SI-MOV-1865C	C SI Accumulator Discharge Isolation Valve	Containment	Fall 2013 RFO
1-RC-SOV-102A2	Pressurizer Vent Line Solenoid Operated Valve	Containment	Fall 2013 RFO
1-EP-CB-12D	125 VDC Distribution Panel 1-IV	Service Building	Fall 2013 RFO
1-EP-CB-80D	120 VAC Instrumentation Distribution Panel 1-IV	Service Building	Fall 2013 RFO
1-VB-INV-04	Vital Bus Distribution Panel 1-IV Inverter	Service Building	Fall 2013 RFO
1-RC-PT-1472	Pressurizer Relief Tank Pressure Transmitter	Containment	Fall 2013 RFO
1-FW-LT-1497	C Main Feedwater to C S/G Flow Transmitter	Containment	Fall 2013 RFO

Table 3-1: Unit 1 Deferred Walkdown Items

ID Number	Description	Location	Inspection Completion Schedule
1-RS-LT-151B-1	Containment Sump High Level Transmitter	Containment	Fall 2013 RFO
1-EP-CB-121A	AR-LA3 Auxiliary Relay Panel	Service Building	Fall 2013 RFO
1-EP-CB-121B	AR-LB3 Auxiliary Relay Panel	Service Building	Fall 2013 RFO
1-EP-CB-116C	Containment Isolation Trip Valve Relay Panel	Auxiliary Building	Fall 2013 RFO
1-EI-CB-25*	HIC Power Supply Panel	Service Building	Fall 2013 RFO
1-RS-E-1C	Inside Recirc Spray Cooler C	Containment	Fall 2013 RFO
1-EP-CB-116A	Containment Isolation Trip Valve Relay Panel	Auxiliary Building	Fall 2013 RFO
1-EE-EG-03C	Emergency Diesel Generator 1J Control Cabinet	Service Building	Fall 2013 RFO
1-EP-CB-13AR*	Heat Trace Distribution Cabinet	Auxiliary Building	Fall 2013 RFO
1-EG-PNL-1J*	EDG Control Panel (1J EDG Gauge Panel)	Service Building	Fall 2013 RFO
1-GN-TK-1B	1-RC-PCV-1455C Pressurizer PORV Nitrogen Reserve Tank	Containment	Fall 2013 RFO
1-RS-E-1D	Inside Recirc Spray Cooler D	Containment	Fall 2013 RFO

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

Table 3-2: Unit 2 Deferred Walkdown Items

ID Number	Description	Location	Inspection Completion Schedule
2-EE-MCC-2H1-2S	Motor Control Center 2H1-2S (2-EP-MC-20)	Auxiliary Building	Spring 2013 RFO
2-EE-MCC-2H1-3A*	Motor Control Center 2H1-3A (2-EP-MC-50)	SWVH	Spring 2013 RFO
2-EE-MCC-2H1-1A*	Motor Control Center 2H1-1A (2-EP-MC-12)	Service Building	Spring 2013 RFO
2-EE-SS-2H1	2H1 480 VOLT Emergency Switchgear 2-EE-SS-03	Auxiliary Building	Spring 2013 RFO
2-EE-SW-2H	4160V Emergency Bus "2H" (2-EE-SW-01)	Service Building	Spring 2013 RFO
2-EE-TRANS-42N-2*	HT Distribution & Control Panels 2-EP-CB-42AN/BN/N1 Transformer (TRANS 42N-2)	AFW Pump House	Spring 2013 RFO
2-EP-CB-42AN*	Heat Tracing Distribution Panel	AFW Pump House	Spring 2013 RFO
2-EP-CB-12A	125 VDC Distribution Panel 2-I	Service Building	Spring 2013 RFO
2-VB-INV-02	Vital Bus Distribution Panel 2-II Inverter	Service Building	Spring 2013 RFO
2-EP-CB-121B	AR-LB3 Auxiliary Relay Panel	Service Building	Spring 2013 RFO
2-EI-CB-115A	Containment Isolation Trip Valve Relay Panel	Auxiliary Building	Spring 2013 RFO
2-EI-CB-25*	HIC Power Supply Cabinet	Service Building	Spring 2013 RFO
2-EI-CB-115B	Containment Isolation Trip Valve Relay Panel	Auxiliary Building	Spring 2013 RFO
2-EP-CB-121A	AR-LA3 Auxiliary Relay Panel	Service Building	Spring 2013 RFO
2-EE-EG-02C	Emergency Diesel Generator 2H Control Cabinet	Service Building	Spring 2013 RFO
2-EP-CB-42N1*	Heat Tracing Controller Cabinet	AFW Pump House	Spring 2013 RFO
2-EG-PNL-2H*	2H EDG Gauge Panel	Service Building	Spring 2013 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. In some cases, anchorage inspections performed within the last 12 months by SQUG-qualified seismic capacity engineers were credited for the anchorage configuration verification portion of these walkdowns as indicated on the seismic walkdown checklist. The results of the completed seismic walkdowns are documented on SWCs, which are included as Appendices C and D. The results of the completed area walk-bys are documented on AWCs, which are included as Appendices E and F.

The Unit 1 SWEL includes 104 items to be walked down, and 33 area walk-bys were defined. The Unit 2 SWEL includes 101 items to be walked down, and 27 area walkdowns were defined. Of these, for Unit 1, 72 walkdowns and 30 area walk-bys have been completed and

for Unit 2, 84 walkdowns and 27 area walk-bys have been completed. The remaining items, 32 walkdowns and 3 area walk-bys for Unit 1 and 17 walkdowns for Unit 2, 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 for Unit 1 and Unit 2 is described in Section 3.4.

Tables 4-1 and 4-2 list potentially adverse seismic conditions identified during the completed seismic walkdowns and area walk-bys for Units 1 and 2, respectively. The items listed in Tables 4-1 and 4-2 were submitted as Condition Reports (CRs) in the station corrective action program (CAP). Tables 4-1 and 4-2 summarize the potentially adverse seismic conditions, describe how the condition has been addressed, and provide the current status of the resolution. A low threshold was used to identify and document potential adverse conditions. In addition to items listed in Tables 4-1 and 4-2, 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 North Anna seismic licensing or design basis were identified as a result of the walkdowns completed to date. As indicated in Tables 4-1 and 4-2, no planned or newly installed changes to the plant are required to resolve the items identified during the walkdowns.

Table 4-1: Unit 1 Potentially Adverse Seismic Conditions

SWC / AWC	Equipment ID	CAP	Description	Resolution	Status
NA1-WD-SWEL-049	1-EG-B-03C	CR482582	One of many unistrut channel nuts on the bottom tier of the EDG battery rack was identified to be off-center.	This condition will not compromise the ability of the rack to seismically support the batteries. The batteries, which are tightly restrained by side rails, will not overcome their weight in a seismic condition and lift completely off the support rack. Therefore, the rack at the location of the off-centered nut is loaded only vertically down. Further, this condition was only identified in one of many such connections securing the unistrut channel to the frame.	Work Order initiated to reinstall the unistrut channel nut.
NA1-WB-046	N/A	CR482584	Ductwork support is rotated and near the end of the ductwork. The support needs to be repositioned to ensure that duct does not separate from the support.	The structural angle is providing support and remains capable of performing its design function.	Work Order initiated to re-position the support.
NA1-WB-046	N/A	CR482589	Angle support for ductwork is currently attached to structural steel with beam clamps and should be a welded attachment.	The support is fully functional in its current clamped condition, however should be a welded attachment as a permanent installation.	Work Order initiated to weld the support.
NA1-WB-007	1TL018P	CR482686	Cable tray 1TL018P support anchor nut lack of full thread engagement.	Engineering review determined that the anchor bolt thread engagement condition is acceptable due to the robustness of the support and the low seismic accelerations in this location, and the bolt has its full shear capacity and additional lateral supports exist.	CLOSED

Table 4-1: Unit 1 Potentially Adverse Seismic Conditions

SWC / AWC	Equipment ID	CAP	Description	Resolution	Status
NA1-WB-007	N/A	CR482689	Anchor bolt missing in multiple conduit unistrut supports in the Unit 1 Cable Vault. The anchor bolt missing in all supports is the northern most hole located under a cable tray (3 out of 4 are installed).	Engineering review determined that due to the robustness of the support, existing additional lateral support, and the low seismic accelerations in this location of the plant that these supports are acceptable as-is.	Corrective action initiated to document the conduit support configuration.
NA1-WD-SWEL-013	1-FW-P-3B	CR482723	Two u-bolt supports with loose nuts on non-safety related AFW pump bearing seal leak-off drain piping.	The condition results in a minor loss of support function because the lateral restraint function is still retained and the existing nuts will prevent large vertical displacements. The support spans are also very short. Therefore, functionality of the pump is not affected.	Work Order initiated to correct the loose support condition.
NA1-WD-SWEL-085	1-EI-CB-63B	CR482859	The front door of Cabinet 1-EI-CB-63B is missing door latch hardware. Specifically, the vertical bars that engage slots in the upper and lower portion of the cabinet were missing.	The center latch was functional without the bars and the cabinet was secured and locked with a key. Therefore, there is no immediate seismic concern as the door cannot force completely open during a seismic event.	Work Order initiated to repair door latch hardware.
NA1-WB-020	1-EI-CB-53	CR482868	A missing screw was identified on a vent plate underneath cabinet 1-EI-CB-53. The vent plate for this cabinet is located underneath the west side access door to the cabinet, and it is secured by two rows of 8 screws.	One screw was found missing in the middle of the bottom row of screws; however, the remaining 15 of the 16 total screws are sufficient to secure the vent plate to this cabinet.	Work Order initiated to replace the missing screw.
NA1-WD-SWEL-085	1-EI-CB-63B	CR482873	A hairline crack was identified at the bottom of the wire trough for Cabinet 1-EI-CB-63B.	The crack does not propagate near the embedded unistruts used to secure the cabinet to the floor. Therefore, the crack was determined to be superficial and does not challenge the anchorage of the cabinet, and is acceptable as-is.	CLOSED

Table 4-1: Unit 1 Potentially Adverse Seismic Conditions

SWC / AWC	Equipment ID	CAP	Description	Resolution	Status
NA1-WB-027	N/A	CR483155	Various seismic housekeeping concerns were identified in the Unit 1 and Unit 2 Main Control Rooms.	All seismic housekeeping observations have been dispositioned.	CLOSED
NA1-WD-SWEL-015	1-CC-PI-102B	CR483321	Anchors not properly torqued against the base plate for instrument stand (<1/8" vertical separation).	The condition is minor significance due to attached instrument tubing flexibility and the almost immediate anchor engagement upon applying lateral pressure to the PI stand. The stand adequately restrains the instrument to maintain functionality.	Work Order initiated to tighten anchors.
NA1-WB-001	N/A	CR483334	3" LW line in direct contact with support on 24" CC line. The CC support is SR and the LW piping is NS/non-seismic.	The 3" piping is in contact with the neutral, unused protrusion of the 1" dia. U-bolt on the CC support. There is no evidence of degradation on either the LW line or the CC support. The 1" U-bolt is sufficiently robust to withstand any minor interaction that may occur during a seismic event considering its size and the minimal movements expected in this area of the plant.	Work Order initiated to eliminate the interference.
NA1-WB-001	N/A	CR483426	3" non-safety related branch piping off safety related 10" service water line is only dead weight supported on rods along its length. Conformance with SR piping design requirements for the NS line upstream of the isolation valve is not documented.	The overhead rod supports have margin to the expected maximum vertical support loads, as a result, they are considered adequate to maintain the vertical position of NS 3" branch piping. The NS piping is not expected to affect the seismic response or pressure boundary of the 24" main SW line. The condition is not expected to cause any safety related equipment to fail to function as designed.	Engineering evaluation initiated to provide documentation related to this SR/NS piping interface area.

Table 4-1: Unit 1 Potentially Adverse Seismic Conditions

SWC / AWC	Equipment ID	CAP	Description	Resolution	Status
NA1-WD-SWEL-001	1-HV-LV-101	CR483470	Minor degradation of floor anchorage and one missing counterweight on Diesel room supply air damper. Some of the rivets fastening the damper frame to the floor clips at the floor are severely corroded or missing.	The anchorage of the floor clips to the floor are rusted but all functional. Vertical support of the damper is provided by the tight fit of the frame into the opening, top and bottom. Out of plane support to the south is provided by bearing on the floor clips regardless of whether rivets are present. Support to the north is provided by the adjacent tarmac pavement on the outside of the room. Therefore the component is adequately supported. The single missing counterweight is only one of many and will not impeded opening of the louvers upon demand.	Work Order initiated to replace corroded anchorage and damper counterweight.

Table 4-2: Unit 2 Potentially Adverse Seismic Conditions

SWC / AWC	Equipment ID	CAP	Description	Resolution	Status
NA2-WB-008	N/A	CR482856	Loose straps on the permanent pipe shielding installed near valve at the back of the U2 'A' Charging Pump cubicle.	The shielding is sufficiently secured and not a seismic concern and has no adverse affects on the pipe or nearby equipment.	Work Order initiated to tighten shielding straps.
NA2-WB-004	2-SI-45	CR482917	1" line was discovered to be not appropriately supported. Valve 2-SI-45 rests on a vertical Unistrut, which provides adequate vertical support for this line.	There is no indication of material distress on either the valve or the unistrut. While this is providing adequate vertical support for the line, it is not an appropriate support. Engineering review concluded that the line is fully capable of performing its design function in its current condition.	Engineering evaluation initiated to provide an appropriate support design.
NA2-WB-062	2-RS-P-2A	CR482925	Normally isolated 1/2" line over span at approximately 14'-0".	The inline components are reasonably small. There is considerable flexibility that would make the line unresponsive to seismic input such that sufficient displacement and cycles to result in line failure is not expected. The line is fully capable of performing its design function.	Work Order initiated to add piping supports.

Table 4-2: Unit 2 Potentially Adverse Seismic Conditions

SWC / AWC	Equipment ID	CAP	Description	Resolution	Status
NA2-WB-062	2-RS-P-2A	CR482947	Normally isolated 1" line over span at approximately 15'-0".	Isolation valve 02-RS-47 is located close to the pump casing connection. The second isolation valve 02-RS-157 is located on the floor adjacent to a rigid vertical/ lateral support. With no appreciable masses in the middle of the span, the line lacks the driver necessary to cycle the line to failure at the pump. The line is fully capable of performing its design function.	Work Order initiated to add piping supports.
NA2-WB-013	N/A	CR482991	Conduit support frames in the U2 Emergency Switchgear Room and U2 Rod Drive Room are attached to the ceiling with lateral bracing to structure in limited locations. These frames are flexible and as a result, could place lateral loading on various large diameter conduits attached to the electrical cabinets, potentially resulting in added cabinet anchorage loading.	The cabinet structures have considerable strength due to attachment to adjacent cabinets. The anchorages are loaded without significant prying and can react considerable load imposed through the cabinets without large local loading. Although in some cases the conduit is loaded by the support structure, the actual load path is expected to perform as it was designed through the unistrut support members. No significant additional loading is expected to be imposed on the cabinet anchorage. In addition, there are several attachments throughout the support framework to building structure. As a result, the equipment function is not considered adversely affected by this condition.	Corrective action initiated to document the conduit support configuration.

Table 4-2: Unit 2 Potentially Adverse Seismic Conditions

SWC / AWC	Equipment ID	CAP	Description	Resolution	Status
NA2-WD-SWEL-082	2-EI-CB-47E	CR483041	A rod hung fluorescent light fixture was found with 1 rod disengaged from its turnbuckle. The disengaged rod is located in the overhead adjacent to the east side of cabinet.	6 of the remaining 7 rod supports are actively supporting the vertical load of the fixture. The 6 remaining rod supports are judged to be sufficient to support the light fixture.	Work Order initiated to reinstall rod support.
NA2-WB-010	N/A	CR483114	One of four anchor bolts missing on multiple conduit unistrut supports in the Unit 2 Cable Vault.	The support framework is rugged and this area of the plant has limited seismic response. The supports are fully functional and will perform their design function as installed.	Corrective action initiated to document the conduit support configuration.
NA2-WB-021	N/A	CR483127	Building facilities drain piping runs above safety-related plant equipment.	The piping has multiple supports and that the leaded joints provide substantial strength. If overloaded, the joints capture the pipe and would have to separate by more than 1 inch to cause complete separation. Based on a 'weak link' joint evaluation it was determined that either insufficient pullout force would be developed for that joint, or a sufficient configuration of hanger supports exist at these locations to prevent the piping from impacting plant equipment below. Therefore, during a seismic event the cast iron drain piping will have no adverse impact on the safety related equipment in the chiller room or its ability to perform its design function.	Engineering evaluation initiated to document the acceptability of the drain piping.

Table 4-2: Unit 2 Potentially Adverse Seismic Conditions

SWC / AWC	Equipment ID	CAP	Description	Resolution	Status
NA2-WD-SWEL-050	2-EG-B-02B	CR483286	One of many unistrut channel nuts on the bottom tier of the EDG battery rack was identified to be off-center.	This condition will not compromise the ability of the rack to seismically support the batteries. The batteries, which are tightly restrained by side rails, will not overcome their weight in a seismic condition and lift completely off the support rack. Therefore, the rack at the location of the off-centered nut is loaded only vertically down. Further, this condition was only identified in one of many such connections securing the unistrut channel to the frame.	Work Order initiated to reinstall the unistrut channel nut.
NA2-WD-SWEL-065	2-SW-PT-201A	CR483595	Anchor bolt spacing violation (2.5" vs. 5" requirement) identified between conduit support and the lateral brace baseplate of a pipe support.	Based on a review of the design basis support calculation, the support would remain adequate without credit for the anchor bolt violating spacing requirements. Therefore, the pipe support and conduit support subject to the as-found anchor spacing violation will remain fully functional and capable of supporting the equipment for all loading conditions including seismic.	Work Order initiated to remove the conduit support anchor bolt that is within the anchor spacing limitations of the pipe support anchor.

5.0 Licensing Basis Evaluation

The station CAP was used to document the evaluation of potentially adverse seismic conditions identified in Section 4.

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 results of the IPEEE Program for NAPS were submitted in its Summary Report for IPEEE - Seismic dated May 27, 1997 (Reference 5) and indicated that there were no severe accident vulnerabilities associated with seismic events, and, therefore, no major plant modifications were necessary as a result of the IPEEE Program. Table 4-1 of the NAPS IPEEE Summary Report provides the resolution of issues and outliers resulting in modifications. Table 6.1-1 of the NAPS IPEEE Summary Report provides the outstanding mechanical and electrical issues that were identified during walkdown evaluations for the seismic IPEEE review. On May 31, 2000, the Completion of Outstanding Issues Related to IPEEE – Seismic Report (Reference 7) for NAPS was submitted, which stated that resolution of the unresolved issues in Table 6.1-1 of the Summary Report specified above was complete.

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

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

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 Seismic Walkdown Equipment List (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 Unit 1 and 2 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 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 Seismic Walkdown Checklists (SWC) and Area Walk-By Checklists (AWC) were completed in accordance with the EPRI 1025286 guidance.

- a. Packages – The Peer Review Team reviewed a sample of the seismic walkdown packages for SWCs 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. Unit 1 SWC/AWC – There are a total of 104 SWCs and 33 AWCs for a total of 137 checklists. Of the 137, 24 SWC and 7 AWC were reviewed representing 23% of the

total. Overall, the SWC and AWC were determined to be appropriately detailed and complete.

- c. Unit 2 SWC/AWC - There are a total of 101 SWCs and 27 AWCs for a total of 128 checklists. Of the 128, 26 SWC and 9 AWC were reviewed representing 27% of the total. Overall, the SWC and AWC were determined to be appropriately detailed and complete.
- d. SWEs were interviewed by the Peer Review Team 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 1025286 guidance.

All 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 corrective action process 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. North Anna Power Station Updated Final Safety Analysis Report (UFSAR), Revision 48.
5. Virginia Electric and Power Company Letter S/N 97-303, J. P. O'Hanlon to NRC Document Control Desk, *North Anna Power Station Units 1 and 2 Summary Report for Individual Plant Examination of External Events (IPEEE) – Seismic*, May 27, 1997.
6. Virginia Electric and Power Company Letter S/N 97-246, J. P. O'Hanlon to NRC Document Control Desk, *North Anna Power Station Units 1 and 2 Summary Report for Resolution of Unresolved Safety Issue (USI) A-46*, dated May 27, 1997.
7. Virginia Electric and Power Company Letter S/N 00-181, L. N. Hartz to NRC Document Control Desk, *North Anna power Station Units 1 and 2 Closure of Individual Plant Examination of External Events (IPEEE)-Seismic, Generic Letter (GL) 88-20, Supplements 4 and 5*, dated May 31, 2000.

Appendix A
Personnel Qualifications

Ellery BakerSummary of Background and Experience:

- Completed 5-day SQUG walkdown training course (2010)
- BS Civil Engineering
- PE, Virginia
- Approximately four years nuclear plant civil/structural/seismic engineering.

David DeMelloSummary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Civil Engineering, MS Civil Engineering
- Thirty-two years nuclear seismic experience. Prepared/implemented civil/structural plant modifications, performed civil/structural calculation, generated pipe stress calculations, and performed HELB evaluations.

William GallagherSummary of Background and Experience:

- Completed 5-day SQUG walkdown training course (1992)
- BS Civil Engineering
- Thirty-eight years in the nuclear industry. Thirty-three years of nuclear power plant experience activities including: seismic design evaluation and seismic analysis for as-built safety-related piping systems; USI A-46; seismic evaluation of structures, tray structures, and piping systems; and IEEE Standard 344.

Glenn A. GardnerSummary of Background and Experience:

- Completed 5-day SQUG walkdown training course (2001)
- BA Physics, graduate courses Mechanical Engineering
- PE, Massachusetts
- Nineteen years with architect/engineer and 17 years with nuclear utility. Piping design and analysis including seismic and water hammer analysis, piping and equipment support design and analysis, Engineering Mechanics lead engineer, equipment seismic flexibility reviews, seismic capability and seismic hazards risk reviews and walkdowns.

Xuan HoangSummary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical Engineering; MS Civil/Structural Engineering
- Six years of experience in analysis of steel and concrete structures, equipment, seismic II/I pipe supports, conduit/cables supports, seismic qualification of new and replacement components.

Marc HotchkissSummary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical Engineering
- PE, Virginia
- Twenty-nine 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. Approximately three years nuclear plant seismic engineering-related experience.

Tim KnoebelSummary of Background and Experience:

- Completed 5-day SQUG walkdown training course (2012)
- BS Civil and Environmental Engineering
- PE, Virginia
- Ten year structural design experience. Five years nuclear seismic engineering experience. Prepared and implemented civil/structural engineering modifications.

Amanda McEnroeSummary of Background and Experience:

- Completed 5-day SQUG walkdown training course (2012)
- BS Civil Engineering
- Over six years both at NAPS in the Civil Engineering Department and as a civil/geotechnical engineer for a consulting firm, performed structural walkdowns following the Mineral, VA, earthquake, calculations related to the seismic adequacy of equipment mounting, and inspections to verify configuration and design basis of various piping components.

Leo Nadeau

Summary of Background and Experience:

- Completed EPRI SWE training course (2012)
- BS Mechanical Engineering, MS Mechanical Engineering
- Over 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 the refurbishment of nuclear power plants. Fifteen years of seismic engineering experience.

Daniel J. Vasquez

Summary of Background and Experience:

- Completed 5-day SQUG training (2007)
- BS, Aerospace Engineering
- PE, Virginia
- Twelve years of nuclear seismic engineering experience in the Dominion Corporate Engineering group. SQUG Seismic Capacity Engineer qualification and EPRI-SQURTS (Seismic Qualification Reporting and Testing Standardization) chairman.

Appendix B

Seismic Walkdown Equipment Lists (SWEL) and Area Walk-By Lists

1. Unit 1 SWEL 1
2. Unit 2 SWEL 1
3. Base List 2 and SWEL 2
4. Unit 1 SWEL
5. Unit 1 Summary Tables
6. Unit 2 SWEL
7. Unit 2 Summary Tables
8. Unit 1 Area Walk-by List
9. Unit 2 Area Walk-by List

1. Unit 1 SWEL 1:

Unit 1 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
1	00	1-HV-SAD-1J (assoc. with mark number 1HV-LV-101)	HV/DG ROOM 1J SUPPLY AIR DAMPER	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
2	00	1-SI-S-B2 ²	LHSI PUMP STRAINER MODULE #B-2	Safety Injection	Y	Y	3	N	039
3	00	1-RS-S-B10 ²	RECIRC SPRAY PUMP STRAINER MODULE #B-10	Recirculation Spray	Y	Y	3	N	039
4	01	1-EE-MCC-1J1-2S ^{1,2}	1J1-2S MOTOR CONTROL CENTER 1-EP-MC-22	Emergency Power	Y	N	1, 2, 3, 4, 5	Y	007
5	01	1-EE-MCC-1J1-3 ^{1,2}	1J1-3 MOTOR CONTROL CENTER 1-EP-MC-33	Emergency Power	Y	N	1, 2, 3, 4, 5	N	036
6	01	1-EE-MCC-1J1-1A ²	1J1-1A MOTOR CONTROL CENTER 1-EP-MC-13	Emergency Power	Y	N	1, 2, 3, 4, 5	N	025
7	02	1-EP-BKR-BYB ^{1,2}	B BYPASS REACTOR TRIP BREAKER	Reactor Protection	N	N	1	N	012
8	02	1-EE-SS-1J1 ²	1J1 480 VOLT EMERGENCY SWITCHGEAR 1-EE-SS-04	Emergency Power	Y	N	1, 2, 3, 4, 5	N	012
9	03	1-EE-SW-1J ²	4160V EMERGENCY BUS "1J" (1-EE-SW-02)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	018
10	04	1-EE-ST-1J ¹	480V EMERGENCY SWGR 1J TRANSFORMER (1-EE-ST-04)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	018
11	04	1-EE-ST-1J1 ¹	480V EMERGENCY SWGR 1J1 TRANSFORMER (1-EE-ST-02)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	012
12	04	1-EE-TRAN-13R ^{1,2}	HEAT TRACE DIST PNLS 1-EP-CB-13AR/BR TRANSF (TRANS-13R)	Heat Trace	N	N	1	N	011
13	05	1-FW-P-3B ¹	3B MOTOR DRIVEN AUX FEEDWATER PUMP	Auxiliary Feedwater	N	N	2,4	N	038
14	05	1-CH-P-1B	B CHARGING PUMP	Chemical and Volume Control	Y	N	1,3	N	005
15	05	1-CC-P-1B ¹	1B COMPONENT COOLING PUMP	Component Cooling	Y	N	4	N	001
16	05	1-EG-P-1JA ¹	1JA EMERGENCY DIESEL GENERATOR FUEL OIL PUMP	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	016
17	05	1-QS-P-1B ¹	B QUENCH SPRAY PUMP	Quench Spray	Y	N	4,5	N	046

Unit 1 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
18	06	1-SW-P-1B ¹	B SERVICE WATER PUMP	Service Water	Y	N	4	N	036
19	06	1-HV-P-20B ¹	HEATING AND VENTILATION PUMP 20B	Ventilation	N	N	1, 2, 3, 4, 5	N	017
20	06	1-SI-P-1B ¹	LOW HEAD SAFETY INJECTION PUMP 'B'	Safety Injection	Y	N	1,3	N	048
21	06	1-RS-P-2B ¹	B OUTSIDE RECIRC SPRAY PUMP	Recirculation Spray	Y	N	4,5	N	047
22	07	1-FW-PCV-159B	AFW PUMPS TO MOV HDR PRESSURE CONTROL VALVE	Auxiliary Feedwater	N	N	2,4	N	038
23	07	1-CC-TV-102E	1A RCP CC RETURN OUTSIDE ISOL VALVE	Component Cooling	N	N	5	N	002
24	07	1-IA-TV-102B	B CNTMT INSTRUMENT AIR TRIP VALVE	Instrument Air	N	N	5	N	002
25	07	1-RC-PCV-1455C ²	PRZR PORV	Reactor Coolant	Y	N	2,4	Y	042
26	07	1-MS-TV-101B	SG B MSIV	Main Steam	Y	N	2,4	N	044
27	07	1-MS-TV-111B	TURBINE-DRIVEN AFW PUMP STEAM SUPPLY VALVE	Auxiliary Feedwater	Y		2,4		043
28	07	1-FW-FCV-1488	FLOW CONTROL TO S/G 1B	Feedwater	N	N	2,4	N	034
29	07	1-BD-TV-100D ²	B STEAM GEN BLOWDOWN INSIDE TRIP VALVE	Steam Generator Blowdown	N	N	5	N	040
30	07	1-CV-TV-150D	B CNTMT VACUUM PUMP SUCTION ISOL	Containment Vacuum and Leakage Monitoring	N	N	5	N	002
31	08A	1-CH-MOV-1269A	1B CHARGING PUMP NRMAL SUCTION ISOLATION VALVE	Chemical and Volume Control	N	N	1,3	N	005
32	08A	1-RC-MOV-1535 ²	PRZR PORV BLOCK VALVE	Reactor Coolant	N	N	2,3,4	N	042
33	08A	1-CH-MOV-1115B	CHG PUMP SUCTION FROM RWST ISOLATION VALVE	Chemical and Volume Control	Y	N	1,3	N	002
34	08A	1-RH-MOV-1720B ²	RESIDUAL HEAT REMOVAL TO C RCS LOOP	Residual Heat Removal	N	N	4	N	039
35	08A	1-SI-MOV-1865C ²	C SI ACCUMULATOR DISCHARGE ISOL VALVE	Safety Injection	N	N	1,3,4	N	039
36	08A	1-SW-MOV-122B	SW RET HDR N 3 TO SPRAY ARRAY 1B2 ISOLATION VALVE	Service Water	N	N	4	N	037
37	08A	1-SW-MOV-108B	SW SUPPLY TO COMPONENT COOLING HX	Service Water	Y	N	4	N	001

Unit 1 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
38	08A	1-SW-MOV-104D	SW RETURN FROM D RSHX ISOL VALVE	Service Water	Y	N	4	N	045
39	08A	1-RS-MOV-101B	R/S PUMP ISOLATION CASING COOLING PUMP	Recirculation Spray	N	N	3,4	N	049
40	08B	1-RC-SOV-102A2 ²	PRESSURIZER VENT LINE SOLENIID OPERATED VALVE	Reactor Coolant	N	N	3	N	042
41	08B	1-MS-SOV-111B	1-MS-TV-111B INSTRUMENT AIR SUPPLY SOV	Auxiliary Feedwater	Y	N	2,4	N	045
42	08B	1-FW-SOV-1488-2	1-FW-FCV-1488 INSTRUMENT AIR SUPPLY SOV	Feedwater	N	N	2,4	N	034
43	10	1-HV-AC-1 ¹	CONTROL ROOM AIR CONDITIONER	Ventilation	N	N	1, 2, 3, 4, 5	N	032
44	11	1-HV-E-4C ¹	HEATING AND VENTILATION CHILLER 4C	Ventilation	N	N	1, 2, 3, 4, 5	N	017
45	14	1-EP-CB-12D ^{1,2}	125 VDC DISTRIBUTION PANEL 1-IV	Emergency Power	Y	N	1, 2, 3, 4, 5	N	018
46	14	1-EP-CB-04D	120 VAC VITAL BUS DISTRIBUTION PANEL 1-IV	Emergency Power	Y	N	1, 2, 3, 4, 5	N	028
47	14	1-EP-CB-80D ^{1,2}	120 VAC INSTRUMENTATION DISTRIBUTION PANEL 1-IV	Emergency Power	N	N	1, 2, 3, 4, 5	N	028
48	15	1-BY-B-1-IV	STATION BATTERY 1-IV	Emergency Power	Y	N	1, 2, 3, 4, 5	N	019
49	15	1-EG-B-03C ¹	EMERGENCY DIESEL GENERATOR 1J BATTERY 3C BANK	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	Y	025
50	16	1-VB-INV-04 ^{1,2}	VITAL BUS DISTRIBUTION PANEL 1-IV INVERTER	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	018
51	16	1-BY-BC-1C-II	125V BUS 1-III AND 1-IV SWING BTRY CHGR (1-BY-C06)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	018
52	17	1-EE-EG-1J	EMERGENCY DIESEL GENERATOR 1J	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
53	18	1-CH-TIC-1109	1B BORIC ACID TANK TEMP INDICATING CONTROL	Chemical and Volume Control	N	N	1	N	011
54	18	1-RC-PT-1472 ^{1,2}	PRESSURIZER RELIEF TANK PRESSURE TRANSMITTER	Reactor Coolant	N	N	2	N	040
55	18	1-RC-LIS-1322 ¹	RVLIS TRAIN B SEAL TABLE ISOLATOR LVL INDR SWITCH	Reactor Coolant	N	N	3	N	007

Unit 1 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
56	18	1-RC-LT-1322	REAC VESSEL RVLIS TRAIN B WIDE RANGE LEVEL XMTR	Reactor Coolant	N	N	3	N	007
57	18	1-QS-LT-100A ¹	RWST LOW LEVEL TRANSMITTER	Quench Spray	Y	Y	3	N	051
58	18	1-MS-PY-101B ¹	SG B STEAM DUMP VALVE E/P TRANSDUCER	Main Steam	N	N	2,4	N	046
59	18	1-CN-LT-100B ¹	EMERGENCY COND STORAGE TANK LEVEL TRANSMITTER	Auxiliary Feedwater	Y	N	2,4	N	038
60	18	1-FW-PT-103B	3A MOTOR DRIVEN AFW PUMP SUCTION PRESS	Auxiliary Feedwater	N	N	2,4	N	038
61	18	1-FW-FT-100B	AFW PUMPS OUTLET TO S/G B FLOW TRANSMITTER	Auxiliary Feedwater	N	N	2,4	N	038
62	18	1-FW-LT-1497 ^{1,2}	C MAIN FEEDWATER TO C S/G FLOW TRANSMITTER	Feedwater	N	N	2,4	N	040
63	18	1-CC-LT-101 ¹	COMPONENT COOLING SURGE TANK LEVEL TRANSMITTER	Component Cooling	N	N	4	N	014
64	18	1-SW-PT-101B ¹	1B SERVICE WATER PUMP DISCH PRESS TRANSMITTER	Service Water	N	N	4	N	036
65	18	1-HV-FS-1215C	HEAT AND VENT PUMP 22C SW SEAL WATER FLOW SWITCH	Ventilation	N	N	1, 2, 3, 4, 5	Y	017
66	18	1-EG-LS-103-JB	1J EMERGENCY DIESEL GEN DAY TANK HI LEVEL SWITCH	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
67	18	1-SW-FT-103	SERVICE WATER RETURN HDR N 4 FLOW TRANSMITTER	Service Water	N	N	4	N	037
68	18	1-RS-LT-103B	CASING COOLING TANK LEVEL XMTR	Recirculation Spray	N	N	4	N	050
69	18	1-CH-FT-1114 ¹	PG WATER TO BORIC ACID BLENDER FLOW TRANSMITTER	Chemical and Volume Control	N	Y	1,3	N	011
70	18	1-RS-LT-151B-1 ²	CONTAINMENT SUMP HIGH LEVEL TRANSMITTER	Recirculation Spray	N	Y	3	N	039
71	19	1-CC-TE-100	CC HT EXCH OUTLET TEMP ELEMENT	Component Cooling	N	N	4	N	001
72	19	1-SW-TE-107	SERVICE WATER RETURN HEADER N 3 TEMP ELEMENT	Service Water	N	N	4	N	037
73	20	1-EP-CB-121A ^{1,2}	AR-LA3 AUXILIARY RELAY PANEL	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	028

Unit 1 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
74	20	1-EP-CB-121B ^{1,2}	AR-LB3 AUXILIARY RELAY PANEL	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	028
75	20	1-EI-CB-06B	AUXILIARY SHUTDOWN PANEL TRAIN B	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	018
76	20	1-EP-CB-116C ^{1,2}	CONTAINMENT ISOLATION TRIP VALVE RELAY PANEL	Electrical Instrumentation and Computer	N	N	5	N	007
77	20	1-EI-CB-23C ¹	SECONDARY PLANT PROCESS RACK C PROTECTION CH III	Electrical Instrumentation and Computer	N	N	1,3,4	Y	020
78	20	1-EI-CB-25 ²	HIC POWER SUPPLY PANEL	Electrical Instrumentation and Computer	N	N	2,3,4	N	027
79	20	1-EI-CB-300	TECHNICAL SUPPORT CENTER MULTIPLEXER CABINET	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	027
80	20	1-EI-CB-47D	SOLID STATE PROTECTION LOGIC CABINET (TRAIN B)	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	020
81	20	1-EI-CB-47F ¹	SOLID STATE PROTECTION OUTPUT CABINET (TRAIN B)	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	020
82	20	1-EI-CB-64B ¹	SOLID STATE PROT AUX RELAY RACK TRAIN B	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	020
83	21	1-RS-E-1C ²	INSIDE RECIRC SPRAY COOLER C	Recirculation Spray	Y	N	4	N	039
84	20	1-EP-CB-28B ¹	AUXILIARY RELAY CABINET B	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	020
85	20	1-EI-CB-63B	LOOP STOP VALVE PROT CABINET TRAIN B	Electrical Instrumentation and Computer	Y	N	3,4	N	020
86	20	1-EP-CB-116A ²	CONTAINMENT ISOLATION TRIP VALVE RELAY PANEL	Electrical Instrumentation and Computer	N	N	5	N	007
87	20	1-EE-EG-03C ^{1,2}	EMERGENCY DIESEL GENERATOR 1J CONTROL CABINET	Emergency Diesel Generator	N	N	1, 2, 3, 4, 5	Y	025
88	20	1-EP-CB-13AR ^{1,2}	HEAT TRACE DISTRIBUTION CABINET	Heat Trace	N	N	1	N	011
89	20	1-EG-PNL-1J ²	EDG CONTROL PANEL (1J EDG GAUGE PANEL)	Emergency Diesel Generator	N	N	1, 2, 3, 4, 5	N	025
90	20	1-EP-CB-219 ¹	SERVICE WATER AUX RELAY PANEL	Electrical Instrumentation and Computer	N	Y	4	N	020
91	21	1-CH-TK-1B	BORIC ACID STORAGE TANK B (BAST)	Chemical and Volume Control	Y	N	1,3	N	011

Unit 1 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
92	21	1-GN-TK-1B ²	1-RC-PCV-1455C PRZR PORV NITROGEN RESERVE TANK	Primary and Secondary Plant Gas Supply	Y	N	2	N	041
93	21	1-CC-E-1B	COMPONENT COOLING WATER HX B	Component Cooling	Y	N	4	N	001
94	21	1-CC-TK-1 ¹	COMPONENT COOLING SURGE TANK	Component Cooling	Y	N	4	Y	014
95	21	1-HV-TK-6B	6B HEAT AND VENT EXPANSION TANK	Ventilation	N	N	1, 2, 3, 4, 5	N	017
96	21	1-EG-TK-1J ¹	1J EMERGENCY DIESEL GEN FUEL OIL DAY TANK	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
97	21	1-EG-TK-1JB ¹	1J EMERGENCY DIESEL GEN STARTING AIR RECEIVER	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
98	21	1-RS-E-1D ²	INSIDE RECIRC SPRAY COOLER D	Recirculation Spray	Y	N	4	N	039
99	21	1-QS-TK-2 ¹	REFUELING WATER CHEM ADD TANK	Quench Spray	N	N	2,4	N	051
100	21	1-RS-E-2B	2B RS PP MECH SEAL SYSTEM WTR FILL LINE HEAT EXCH	Recirculation Spray	N	N	4	N	047
102	08A	1-SW-MOV-113B	SW/CCW FUEL PIT COOLERS ISOL	Service Water	N	N	4	N	001

Notes:

- A. ¹ Items were selected for an anchorage inspection.
- ² Component not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible.

B. Safety Functions:

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

2. Unit 2 SWEL 1:

Unit 2 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
1	0	2-HV-SAD-2H (assoc. with mark number 2HV-LV-200)	EDG ROOM 2H SUPPLY AIR DAMPER (from U1 SSEL)	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
2	0	2-RS-S-A1	RECIRC SPRAY PUMP STRAINER MODULE #A-1	Recirculation Spray	Y	Y	3	N	054
3	0	2-SI-S-A2	LHSI PUMP STRAINER MODULE #A-2	Safety Injection	Y	Y	3	N	054
4	01	2-EE-MCC-2H1-2S ²	MOTOR CONTROL CENTER 2H1-2S (2-EP-MC-20)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	010
5	01	2-EE-MCC-2H1-3A ^{1,2}	MOTOR CONTROL CENTER 2H1-3A (2-EP-MC-50)	Emergency Power	Y	N	1, 2, 3, 4, 5	Y	037
6	01	2-EE-MCC-2H1-1A ^{1,2}	MOTOR CONTROL CENTER 2H1-1A (2-EP-MC-12)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	026
7	02	2-EP-BKR-RTA ¹	A REACTOR TRIP BREAKER UNIT 2	Reactor Protection	N	N	1	N	013
8	02	2-EE-SS-2H1 ²	2H1 480 VOLT EMERGENCY SWITCHGEAR 2-EE-SS-03	Emergency Power	Y	N	1, 2, 3, 4, 5	N	013
9	03	2-EE-SW-2H ²	4160V EMERGENCY BUS "2H" (2-EE-SW-01)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	022
10	04	2-EE-TRANS-42N-2 ²	HT DIST & CTRL PNLS 2-EP-CB-42AN/BN/N1 XFMR (TRANS 42N-2)	Heat Trace	N	N	1	N	053
11	04	2-EE-ST-2J ¹	480V EMERGENCY SWGR 2J TRANSFORMER (2-EE-ST-04)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	022
12	04	2-EE-ST-2J1 ¹	480V EMERGENCY SWGR 2J-1 TRANSFORMER (2-EE-ST-04)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	013
13	05	2-CH-P-1A	A CHARGING PUMP	Chemical and Volume Control	Y	N	1,3	N	008
14	05	2-FW-P-2 ¹	TURBINE-DRIVEN AUXILIARY FEEDWATER PUMP (TDAFWP)	Auxiliary Feedwater	Y	N	2,4	N	053
15	05	2-CC-P-1A ¹	1A COMPONENT COOLING PUMP	Component Cooling	Y	N	4	N	001
16	05	2-EG-P-2HA ¹	2HA EMERGENCY DIESEL GENERATOR FUEL OIL PUMP	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	016
17	05	2-QS-P-1A ¹	A QUENCH SPRAY PUMP	Quench Spray	Y	N	4,5	N	061

Unit 2 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
18	06	2-SW-P-1A ¹	A SERVICE WATER PUMP	Service Water	Y	N	4	N	036
19	06	2-HV-P-20A ¹	HEATING AND VENTILATION PUMP 20A	Ventilation	N	N	1, 2, 3, 4, 5	N	021
20	06	2-SI-P-1A ¹	LOW HEAD SAFETY INJECTION PUMP 'A'	Safety Injection	Y	N	1,3	N	063
21	06	2-RS-P-2A ¹	A OUTSIDE RECIRC SPRAY PUMP	Recirculation Spray	Y	N	4,5	N	062
22	07	2-RC-PCV-2455C	PRZR PORV	Reactor Coolant	Y	N	2,4	Y	057
23	07	2-MS-TV-201A	SG A MSIV	Main Steam	Y	N	2,4	N	059
24	07	2-MS-TV-211A	TDAFW STEAM SUPPLY VALVE	Auxiliary Feedwater	Y	N	2,4	N	058
25	07	2-FW-PCV-259A	FW/AFWP TO SG B CONTROL VALVE	Auxiliary Feedwater	N	N	2,4	N	052
26	07	2-FW-FCV-2479	A MAIN FEED REG BYPASS VALVE	Feedwater	N	N	2,4	Y	035
27	07	2-MS-TV-210	MS DRAIN HDR TO BLOWDOWN SYSTEM TRIP VALVE	Main Steam	N	N	5	N	058
28	07	2-BD-TV-200A	A SG BLOWDOWN OUTSIDE TRIP VALVE	Steam Generator Blowdown	N	N	5	N	003
29	07	2-CV-TV-250A	A CNTMT VACUUM PUMP SUCTION ISOL	Containment Vacuum and Leakage Monitoring	N	N	5	N	003
30	07	2-CC-TV-202A	1C RCP CC RETURN OUTSIDE ISOL VALVE	Component Cooling	N	N	5	N	003
31	07	2-IA-TV-202A	A CNTMT INSTRUMENT AIR TRIP VALVE	Instrument Air	N	N	5	N	003
32	08A	2-CH-MOV-2267A	1A CHARGING PUMP NRMAL SUCTION ISOLATION VALVE	Chemical and Volume Control	N	N	1,3	N	008
33	08A	2-RC-MOV-2535	PRZR PORV BLOCK VALVE	Reactor Coolant	N	N	2,3,4	N	057
34	08A	2-CH-MOV-2115D	CHG PUMP SUCTION FROM RWST ISOLATION VALVE	Chemical and Volume Control	Y	N	1,3	N	003
35	08A	2-FW-MOV-200A	STEAM GENERATOR A FROM AFW INLET ISOLATION VALVE	Auxiliary Feedwater	N	N	2,4	N	052
36	08A	2-RH-MOV-2720B	RESIDUAL HEAT REMOVAL TO C RCS LOOP	Residual Heat Removal	N	N	4	N	054
37	08A	2-SI-MOV-2865B	B SI ACCUMULATOR DISCHARGE ISOL VALVE	Safety Injection	N	N	1,3,4	N	054

Unit 2 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
38	08A	2-SW-MOV-223A	SW RET HDR N 3 BYPASS LINE TO RSVR ISOL VALVE	Service Water	Y	N	4	N	037
39	08A	2-SW-MOV-208A	SW SUPPLY TO CC HEAT EXCHANGERS	Service Water	Y	N	4	N	001
40	08A	2-SW-MOV-204A	SW RETURN FROM A RSHX ISOL VALVE	Service Water	Y	N	4	N	060
41	08B	2-RC-SOV-2456-1	2-RC-PCV-2456 INSTRUMENT AIR SUPPLY SOV	Reactor Coolant	Y	N	2,4	Y	057
42	08B	2-MS-SOV-211A	2-MS-TV-211A INSTRUMENT AIR SUPPLY SOV	Auxiliary Feedwater	Y	N	2,4	N	060
43	08B	2-FW-SOV-2479-1	SOLENIID OPERATED VALVE	Feedwater	N	N	2,4	N	035
44	10	2-HV-AC-8 ¹	CONTROL ROOM AIR CONDITIONER	Ventilation	N	N	1, 2, 3, 4, 5	N	033
45	11	2-HV-E-4A ¹	HEATING AND VENTILATION CHILLER 4A	Ventilation	N	N	1, 2, 3, 4, 5	N	021
46	14	2-EP-CB-42AN ^{1,2}	HEAT TRACING DISTRIBUTION PANEL	Heat Trace	N	N	1	N	053
47	14	2-EP-CB-12A ²	125 VDC DISTRIBUTION PANEL 2-I	Emergency Power	Y	N	1, 2, 3, 4, 5	N	022
48	14	2-EP-CB-04A	120 VAC VITAL BUS DISTRIBUTION PANEL 2-I (RED & ORANGE)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	030
49	15	2-BY-B-2-II	STATION BATTERY 2-II	Emergency Power	Y	N	1, 2, 3, 4, 5	N	023
50	15	2-EG-B-02B ¹	EMERGENCY DIESEL GENERATOR 2H BATTERY 2B RACK	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	Y	026
51	16	2-BY-BC-2C-I ¹	125V BUS 2-I AND 2-II SWING BTRY CHGR (2-BY-C-03)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	022
52	16	2-VB-INV-02 ²	VITAL BUS DISTRIBUTION PANEL 2-II INVERTER	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	022
53	17	2-EE-EG-2H	EMERGENCY DIESEL GENERATOR 2H	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
54	18	2-CH-FT-2130	1A RCP SEAL INJECTION HEADER FLOW TRANSMITTER	Chemical and Volume Control	Y	N	1	N	004
55	18	2-RC-PT-2472	PRESSURIZER RELIEF TANK PRESSURE TRANSMITTER	Reactor Coolant	N	N	2	N	054
56	18	2-RC-LIS-2312 ¹	RVLIS TRAIN A SEAL TABLE ISOLATOR LVL INDR SWITCH	Reactor Coolant	N	N	3	N	010

Unit 2 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
57	18	2-RC-LT-2312	REAC VESSEL RVLIS TRAIN A WIDE RANGE LEVEL XMTR	Reactor Coolant	N	N	3	N	010
58	18	2-QS-LT-200C ¹	RWST LOW LEVEL TRANSMITTER	Quench Spray	Y	N	3	N	065
59	18	2-MS-PT-2474	A MAIN STEAM HEADER TO TURBINE PRESS TRANSMITTER	Main Steam	N	N	2,4	N	060
60	18	2-MS-PY-201A	A SG POWER OPERATED RELIEF VV E/P CONVERTER	Main Steam	N	N	2,4	N	061
61	18	2-CN-LT-200A ¹	EMERGENCY CONDENSATE STORAGE TANK LEVEL TRANSMITTER	Auxiliary Feedwater	Y	N	2,4	N	052
62	18	2-FW-PT-203A	TURBINE DRIVEN AFW PUMP SUCTION PRESS TRANSMITTER	Auxiliary Feedwater	N	N	2,4	N	053
63	18	2-FW-FT-200A ¹	AFW PUMPS OUTLET TO S/G A FLOW TRANSMITTER	Auxiliary Feedwater	N	N	2,4	N	052
64	18	2-FW-LT-2487	1B STEAM GENERATOR WIDE RANGE LEVEL XMTR	Feedwater	N	N	2,4	N	055
65	18	2-SW-PT-201A ¹	1A SERVICE WATER PUMP DISCH PRESS TRANSMITTER	Service Water	N	N	4	N	036
66	18	2-HV-FS-2215A	HEAT AND VENT PP 22A SW SEAL WTR SPLY FLOW SWITCH	Ventilation	N	N	1, 2, 3, 4, 5	N	021
67	18	2-EG-LS-203-HA ¹	2H EMERGENCY DIESEL GEN DAY TANK HI LEVEL SWITCH	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
68	18	2-FW-PC-259A ¹	AFW MOV HDR PCV 2-FWPCV-259A PRESS CONTR	Auxiliary Feedwater	N	N	2,4	N	052
69	18	2-RS-LT-203A	CASING CLG TANK RECIRC SPRAY LEVEL TRANSMITTER	Recirculation Spray	N	N	4	N	064
70	18	2-CH-FT-2114	PG WATER TO BORIC ACID BLENDER FLOW TRANSMITTER	Chemical and Volume Control	N	Y	1,3	N	011
71	18	2-RS-LT-251A-1	REACTOR CONTAINMENT SUMP LEVEL TRANSMITTER	Recirculation Spray	N	Y	3	N	054
72	19	2-CC-TE-200	CC HT EXCH OUTLET TEMP ELEMENT	Component Cooling	N	N	4	N	001
73	20	2-EP-CB-121B ^{1,2}	AR-LB3 AUXILIARY RELAY PANEL	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	030

Unit 2 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
74	18	2-FW-PC-259B ¹	AFW HCV HDR PCV 2-FW-PCV259B PRESS CONTR	Auxiliary Feedwater	N	N	2,4	N	052
75	20	2-EI-CB-06A ¹	AUXILIARY SHUTDOWN PANEL TRAIN A	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	022
76	18	2-FW-FT-200B ¹	AFW PUMPS OUTLET TO S/G B FLOW TRANSMITTER	Auxiliary Feedwater	N	N	2,4	N	052
77	20	2-EI-CB-115A ²	CONTAINMENT ISOLATION TRIP VALVE RELAY PANEL	Electrical Instrumentation and Computer	N	N	5	N	010
78	20	2-EI-CB-23B ¹	SECONDARY PLANT PROCESS RACK B PROTECTION CH II	Electrical Instrumentation and Computer	N	N	1,3,4	Y	024
79	20	2-EI-CB-25 ²	HIC POWER SUPPLY CABINET	Electrical Instrumentation and Computer	N	N	2,3,4	N	029
80	20	2-EI-CB-300	TECHNICAL SUPPORT CENTER MULTIPLEXER CABINET	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	029
81	20	2-EI-CB-47C ¹	SOLID STATE PROTECTION LOGIC CABINET (TRAIN A)	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	024
82	20	2-EI-CB-47E ¹	SOLID STATE PROTECTION OUTPUT CABINET (TRAIN A)	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	024
83	20	2-EI-CB-64A ¹	SOLID STATE PROT SYS AUX RELAY RACK	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	024
84	20	2-EI-CB-202	EMERG SWGR RM DG ISOL PANEL (H-TRAIN)	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	022
85	20	2-EI-CB-115B ²	CONTAINMENT ISOLATION TRIP VALVE RELAY PANEL	Electrical Instrumentation and Computer	N	N	5	N	010
86	20	2-EP-CB-28B ¹	AUXILIARY RELAY RACK B	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	024
87	20	2-EI-CB-63A ¹	LOOP STOP VALVES PROT CABINET TRAIN A	Electrical Instrumentation and Computer	Y	N	3,4	N	024
88	20	2-EP-CB-121A ^{1,2}	AR-LA3 AUXILIARY RELAY PANEL	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	030
89	20	2-EE-EG-02C ^{1,2}	EMERGENCY DIESEL GENERATOR 2H CONTROL CABINET	Emergency Diesel Generator	N	N	1, 2, 3, 4, 5	N	026
90	20	2-EP-CB-42N1 ^{1,2}	HEAT TRACING CONTROLLER CABINET	Heat Trace	N	N	1	N	053
91	20	2-EG-PNL-2H ^{1,2}	2H EDG GAUGE PANEL	Emergency Diesel Generator	N	N	1, 2, 3, 4, 5	N	026

Unit 2 Seismic Walkdown Equipment List (SWEL) 1									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
92	20	2-EP-CB-219 ¹	SERVICE WATER AUX RELAY PANEL	Electrical Instrumentation and Computer	N	Y	4	N	024
93	21	2-GN-TK-1A	1A NITROGEN RESERVE TANK	Primary and Secondary Plant Gas Supply	Y	N	2	N	056
94	21	2-CC-E-1A	COMPONENT COOLING WATER HX 1A	Component Cooling	Y	N	4	N	001
95	21	2-HV-TK-6A	6A HEAT AND VENT EXPANSION TANK	Ventilation	N	N	1, 2, 3, 4, 5	N	021
96	21	2-EG-TK-2H ¹	2H EMERGENCY DIESEL GEN FUEL OIL DAY TANK	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
97	21	2-EG-TK-2HA ¹	2H EMERGENCY DIESEL GEN STARTING AIR RECEIVER	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
98	21	2-RS-E-1D	INSIDE RECIRC SPRAY COOLER D	Recirculation Spray	Y	N	2,4	N	054
99	21	2-QS-TK-2	REFUELING WATER CHEM ADD TANK	Quench Spray	N	N	2,4	N	065
100	21	2-RS-E-2A	2A RS PP MECH SEAL SYSTEM WTR FILL LINE HEAT EXCH	Recirculation Spray	N	N	4	N	062
101	08A	2-SW-MOV-213A	SW/CCW FUEL PIT COOLERS ISOL	Service Water	N	N	4	N	001

Notes:

- A. ¹ Items were selected for an anchorage inspection.
- ² Component not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible.

B. Safety Functions:

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

3. Base List 2 and SWEL 2:

Base List 2 and SWEL 2			
ID	Description	System	SWEL 2?
1-FC--1	SPENT FUEL PIT TO 1A FUEL PIT CLG PUMP ISOL VALVE	Fuel Cooling and Purification	No
1-FC--2	SPENT FUEL PIT OUTLET LINES XCONN ISOL VALVE	Fuel Cooling and Purification	No
1-FC--3	1B SKIMMER ASSEMBLY TO 1A SFP CLG PUMP ISOL VV	Fuel Cooling and Purification	No
1-FC--4	1A SKIMMER ASSEMBLY TO 1A SFP CLG PUMP ISOL VV	Fuel Cooling and Purification	No
1-FC--5	1A SPENT FUEL PIT COOLING PUMP SUCTION ISOL VALVE	Fuel Cooling and Purification	No
1-FC--6	1A SPENT FUEL PIT CLG PP SUCT 1-FC-PI-101A ISOL VV	Fuel Cooling and Purification	No
1-FC--7	1A SFP COOLING PUMP DISCH 1-FC-PI-100A ISOL VALVE	Fuel Cooling and Purification	No
1-FC--8	1A SPENT FUEL PIT COOLING PUMP DISCHARGE CHECK VV	Fuel Cooling and Purification	No
1-FC--9	1A SPENT FUEL PIT CLG PUMP DISCHARGE ISOL VALVE	Fuel Cooling and Purification	No
1-FC--10	SPENT FUEL PIT CLG PUMPS DISCH HDR XCONN ISOL VV	Fuel Cooling and Purification	No
1-FC--11	1A SPENT FUEL PIT COOLER INLET ISOLATION VALVE	Fuel Cooling and Purification	No
1-FC--12	1A SPENT FUEL PIT COOLER VENT VALVE	Fuel Cooling and Purification	No
1-FC--13	1A SPENT FUEL PIT COOLER OUTLET ISOLATION VALVE	Fuel Cooling and Purification	No
1-FC--14	1A SPENT FUEL PIT COOLER DRAIN VALVE	Fuel Cooling and Purification	No
1-FC--15	SPENT FUEL PIT TO 1B FUEL PIT CLG PUMP ISOL VALVE	Fuel Cooling and Purification	No
1-FC--16	1B SKIMMER ASSEMBLY TO 1B SFP CLG PUMP ISOL VV	Fuel Cooling and Purification	No
1-FC--17	1A SKIMMER ASSEMBLY TO 1B SFP CLG PUMP ISOL VV	Fuel Cooling and Purification	No
1-FC--18	1B SPENT FUEL PIT COOLING PUMP SUCTION ISOL VALVE	Fuel Cooling and Purification	No
1-FC--19	1B SPENT FUEL PIT CLG PP SUCT 1-FC-PI-101B ISOL VV	Fuel Cooling and Purification	No
1-FC--20	1B SFP COOLING PUMP DISCH 1-FC-PI-100B ISOL VALVE	Fuel Cooling and Purification	No
1-FC--21	1B SPENT FUEL PIT COOLING PUMP DISCHARGE CHECK VV	Fuel Cooling and Purification	No
1-FC--22	1B SPENT FUEL PIT CLG PUMP DISCHARGE ISOL VALVE	Fuel Cooling and Purification	No
1-FC--23	1B SPENT FUEL PIT COOLER INLET ISOLATION VALVE	Fuel Cooling and Purification	No
1-FC--24	1B SPENT FUEL PIT COOLER VENT VALVE	Fuel Cooling and Purification	No
1-FC--25	1B SPENT FUEL PIT COOLER OUTLET ISOLATION VALVE	Fuel Cooling and Purification	No
1-FC--26	1B SPENT FUEL PIT COOLER DRAIN VALVE	Fuel Cooling and Purification	No
1-FC--27	1A SPENT FUEL PIT COOLING PP SUCT PI TEST ISOL VV	Fuel Cooling and Purification	No
1-FC--28	1B SPENT FUEL PIT COOLING PP SUCT PI TEST ISOL VV	Fuel Cooling and Purification	No
1-FC--30	SPENT FUEL PIT COOLERS OUTLET HEADER VENT VALVE	Fuel Cooling and Purification	No
1-FC--42	1-FC-P-1A PUMP BEARING LUBE OIL SAMPLE PORT	Fuel Cooling and Purification	No
1-FC--43	1-FC-P-1B PUMP BEARING LUBE OIL SAMPLE PORT	Fuel Cooling and Purification	No

Base List 2 and SWEL 2			
ID	Description	System	SWEL 2?
1-FC-E-1A	1A SPENT FUEL PIT COOLER	Fuel Cooling and Purification	No
1-FC-E-1B	1B SPENT FUEL PIT COOLER	Fuel Cooling and Purification	Yes
1-FC-P-1A	1A SPENT FUEL PIT COOLING PUMP	Fuel Cooling and Purification	No
1-FC-P-1B	1B SPENT FUEL PIT COOLING PUMP	Fuel Cooling and Purification	Yes
1-FC-PI-100A	1A SPENT FUEL PIT COOLING PP DISCH HDR PRESS INDR	Fuel Cooling and Purification	No
1-FC-PI-100B	1B SPENT FUEL PIT COOLING PP DISCH HDR PRESS INDR	Fuel Cooling and Purification	Yes
1-FC-PI-101A	1A SPENT FUEL PIT COOLING PUMP SUCT HDR PRESS INDR	Fuel Cooling and Purification	No
1-FC-PI-101B	1B SPENT FUEL PIT COOLING PUMP SUCT HDR PRESS INDR	Fuel Cooling and Purification	No
1-FC-TW-100A	1A SPENT FUEL PIT COOLER INLET THERMOWELL	Fuel Cooling and Purification	No
1-FC-TW-100B	1B SPENT FUEL PIT COOLER INLET THERMOWELL	Fuel Cooling and Purification	No
1-FC-TW-101A	1A SPENT FUEL PIT COOLER OUTLET THERMOWELL	Fuel Cooling and Purification	No
1-FC-TW-101B	1B SPENT FUEL PIT COOLER OUTLET THERMOWELL	Fuel Cooling and Purification	No

4. Unit 1 SWEL

Unit 1 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
1	00	1-HV-SAD-1J (assoc. with mark number 1HV-LV-101)	HV/DG ROOM 1J SUPPLY AIR DAMPER	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
2	00	1-SI-S-B2 ²	LHSI PUMP STRAINER MODULE #B-2	Safety Injection	Y	Y	3	N	039
3	00	1-RS-S-B10 ²	RECIRC SPRAY PUMP STRAINER MODULE #B-10	Recirculation Spray	Y	Y	3	N	039
4	01	1-EE-MCC-1J1-2S ^{1,2}	1J1-2S MOTOR CONTROL CENTER 1-EP-MC-22	Emergency Power	Y	N	1, 2, 3, 4, 5	Y	007
5	01	1-EE-MCC-1J1-3 ^{1,2}	1J1-3 MOTOR CONTROL CENTER 1-EP-MC-33	Emergency Power	Y	N	1, 2, 3, 4, 5	N	036
6	01	1-EE-MCC-1J1-1A ²	1J1-1A MOTOR CONTROL CENTER 1-EP-MC-13	Emergency Power	Y	N	1, 2, 3, 4, 5	N	025
7	02	1-EP-BKR-BYB ^{1,2}	B BYPASS REACTOR TRIP BREAKER	Reactor Protection	N	N	1	N	012
8	02	1-EE-SS-1J1 ²	1J1 480 VOLT EMERGENCY SWITCHGEAR 1-EE-SS-04	Emergency Power	Y	N	1, 2, 3, 4, 5	N	012
9	03	1-EE-SW-1J ²	4160V EMERGENCY BUS "1J" (1-EE-SW-02)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	018
10	04	1-EE-ST-1J ¹	480V EMERGENCY SWGR 1J TRANSFORMER (1-EE-ST-04)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	018
11	04	1-EE-ST-1J1 ¹	480V EMERGENCY SWGR 1J-1 TRANSFORMER (1-EE-ST-02)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	012
12	04	1-EE-TRAN-13R ^{1,2}	HEAT TRACE DIST PNLS 1-EP-CB-13AR/BR TRANSF (TRANS13R)	Heat Trace	N	N	1	N	011
13	05	1-FW-P-3B ¹	3B MOTOR DRIVEN AUX FEEDWATER PUMP	Auxiliary Feedwater	N	N	2,4	N	038
14	05	1-CH-P-1B	B CHARGING PUMP	Chemical and Volume Control	Y	N	1,3	N	005
15	05	1-CC-P-1B ¹	1B COMPONENT COOLING PUMP	Component Cooling	Y	N	4	N	001
16	05	1-EG-P-1JA ¹	1JA EMERGENCY DIESEL GENERATOR FUEL OIL PUMP	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	016
17	05	1-QS-P-1B ¹	B QUENCH SPRAY PUMP	Quench Spray	Y	N	4,5	N	046
18	06	1-SW-P-1B ¹	B SERVICE WATER PUMP	Service Water	Y	N	4	N	036

Unit 1 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
19	06	1-HV-P-20B ¹	HEATING AND VENTILATION PUMP 20B	Ventilation	N	N	1, 2, 3, 4, 5	N	017
20	06	1-SI-P-1B ¹	LOW HEAD SAFETY INJECTION PUMP 'B'	Safety Injection	Y	N	1,3	N	048
21	06	1-RS-P-2B ¹	B OUTSIDE RECIRC SPRAY PUMP	Recirculation Spray	Y	N	4,5	N	047
22	07	1-FW-PCV-159B	AFW PUMPS TO MOV HDR PRESSURE CONTROL VALVE	Auxiliary Feedwater	N	N	2,4	N	038
23	07	1-CC-TV-102E	1A RCP CC RETURN OUTSIDE ISOL VALVE	Component Cooling	N	N	5	N	002
24	07	1-IA-TV-102B	B CNTMT INSTRUMENT AIR TRIP VALVE	Instrument Air	N	N	5	N	002
25	07	1-RC-PCV-1455C ²	PRZR PORV	Reactor Coolant	Y	N	2,4	Y	042
26	07	1-MS-TV-101B	SG B MSIV	Main Steam	Y	N	2,4	N	044
27	07	1-MS-TV-111B	TURBINE-DRIVEN AFW PUMP STEAM SUPPLY VALVE	Auxiliary Feedwater	Y	N	2,4	N	043
28	07	1-FW-FCV-1488	FLOW CONTROL TO S/G 1B	Feedwater	N	N	2,4	N	034
29	07	1-BD-TV-100D ²	B STEAM GEN BLOWDOWN INSIDE TRIP VALVE	Steam Generator Blowdown	N	N	5	N	040
30	07	1-CV-TV-150D	B CNTMT VACUUM PUMP SUCTION ISOL	Containment Vacuum and Leakage Monitoring	N	N	5	N	002
31	08A	1-CH-MOV-1269A	1B CHARGING PUMP NRMAL SUCTION ISOLATION VALVE	Chemical and Volume Control	N	N	1,3	N	005
32	08A	1-RC-MOV-1535 ²	PRZR PORV BLOCK VALVE	Reactor Coolant	N	N	2,3,4	N	042
33	08A	1-CH-MOV-1115B	CHG PUMP SUCTION FROM RWST ISOLATION VALVE	Chemical and Volume Control	Y	N	1,3	N	002
34	08A	1-RH-MOV-1720B ²	RESIDUAL HEAT REMOVAL TO C RCS LOOP	Residual Heat Removal	N	N	4	N	039
35	08A	1-SI-MOV-1865C ²	C SI ACCUMULATOR DISCHARGE ISOL VALVE	Safety Injection	N	N	1,3,4	N	039
36	08A	1-SW-MOV-122B	SW RET HDR N 3 TO SPRAY ARRAY 1B2 ISOLATION VALVE	Service Water	N	N	4	N	037
37	08A	1-SW-MOV-108B	SW SUPPLY TO COMPONENT COOLING HX	Service Water	Y	N	4	N	001
38	08A	1-SW-MOV-104D	SW RETURN FROM D RSHX ISOL VALVE	Service Water	Y	N	4	N	045

Unit 1 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
39	08A	1-RS-MOV-101B	R/S PUMP ISOLATION CASING COOLING PUMP	Recirculation Spray	N	N	3,4	N	049
40	08B	1-RC-SOV-102A2 ²	PRESSURIZER VENT LINE SOLENIID OPERATED VALVE	Reactor Coolant	N	N	3	N	042
41	08B	1-MS-SOV-111B	1-MS-TV-111B INSTRUMENT AIR SUPPLY SOV	Auxiliary Feedwater	Y	N	2,4	N	045
42	08B	1-FW-SOV-1488-2	1-FW-FCV-1488 INSTRUMENT AIR SUPPLY SOV	Feedwater	N	N	2,4	N	034
43	10	1-HV-AC-1 ¹	CONTROL ROOM AIR CONDITIONER	Ventilation	N	N	1, 2, 3, 4, 5	N	032
44	11	1-HV-E-4C ¹	HEATING AND VENTILATION CHILLER 4C	Ventilation	N	N	1, 2, 3, 4, 5	N	017
45	14	1-EP-CB-12D ^{1,2}	125 VDC DISTRIBUTION PANEL 1-IV	Emergency Power	Y	N	1, 2, 3, 4, 5	N	018
46	14	1-EP-CB-04D	120 VAC VITAL BUS DISTRIBUTION PANEL 1-IV	Emergency Power	Y	N	1, 2, 3, 4, 5	N	028
47	14	1-EP-CB-80D ^{1,2}	120 VAC INSTRUMENTATION DISTRIBUTION PANEL 1-IV	Emergency Power	N	N	1, 2, 3, 4, 5	N	028
48	15	1-BY-B-1-IV	STATION BATTERY 1-IV	Emergency Power	Y	N	1, 2, 3, 4, 5	N	019
49	15	1-EG-B-03C ¹	EMERGENCY DIESEL GENERATOR 1J BATTERY 3C BANK	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	Y	025
50	16	1-VB-INV-04 ^{1,2}	VITAL BUS DISTRIBUTION PANEL 1-IV INVERTER	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	018
51	16	1-BY-BC-1C-II	125V BUS 1-III AND 1-IV SWING BTRY CHGR (1-BY-C06)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	018
52	17	1-EE-EG-1J	EMERGENCY DIESEL GENERATOR 1J	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
53	18	1-CH-TIC-1109	1B BORIC ACID TANK TEMP INDICATING CONTROL	Chemical and Volume Control	N	N	1	N	011
54	18	1-RC-PT-1472 ^{1,2}	PRESSURIZER RELIEF TANK PRESSURE TRANSMITTER	Reactor Coolant	N	N	2	N	040
55	18	1-RC-LIS-1322 ¹	RVLIS TRAIN B SEAL TABLE ISOLATOR LVL INDR SWITCH	Reactor Coolant	N	N	3	N	007
56	18	1-RC-LT-1322	REAC VESSEL RVLIS TRAIN B WIDE RANGE LEVEL XMTR	Reactor Coolant	N	N	3	N	007
57	18	1-QS-LT-100A ¹	RWST LOW LEVEL TRANSMITTER	Quench Spray	Y	Y	3	N	051

Unit 1 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
58	18	1-MS-PY-101B ¹	SG B STEAM DUMP VALVE E/P TRANSDUCER	Main Steam	N	N	2,4	N	046
59	18	1-CN-LT-100B ¹	EMERGENCY COND STORAGE TANK LEVEL TRANSMITTER	Auxiliary Feedwater	Y	N	2,4	N	038
60	18	1-FW-PT-103B	3A MOTOR DRIVEN AFW PUMP SUCTION PRESS	Auxiliary Feedwater	N	N	2,4	N	038
61	18	1-FW-FT-100B	AFW PUMPS OUTLET TO S/G B FLOW TRANSMITTER	Auxiliary Feedwater	N	N	2,4	N	038
62	18	1-FW-LT-1497 ^{1,2}	C MAIN FEEDWATER TO C S/G FLOW TRANSMITTER	Feedwater	N	N	2,4	N	040
63	18	1-CC-LT-101 ¹	COMPONENT COOLING SURGE TANK LEVEL TRANSMITTER	Component Cooling	N	N	4	N	014
64	18	1-SW-PT-101B ¹	1B SERVICE WATER PUMP DISCH PRESS TRANSMITTER	Service Water	N	N	4	N	036
65	18	1-HV-FS-1215C	HEAT AND VENT PUMP 22C SW SEAL WATER FLOW SWITCH	Ventilation	N	N	1, 2, 3, 4, 5	Y	017
66	18	1-EG-LS-103-JB	1J EMERGENCY DIESEL GEN DAY TANK HI LEVEL SWITCH	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
67	18	1-SW-FT-103	SERVICE WATER RETURN HDR N 4 FLOW TRANSMITTER	Service Water	N	N	4	N	037
68	18	1-RS-LT-103B	CASING COOLING TANK LEVEL XMTR	Recirculation Spray	N	N	4	N	050
69	18	1-CH-FT-1114 ¹	PG WATER TO BORIC ACID BLENDER FLOW TRANSMITTER	Chemical and Volume Control	N	Y	1,3	N	011
70	18	1-RS-LT-151B-1 ²	CONTAINMENT SUMP HIGH LEVEL TRANSMITTER	Recirculation Spray	N	Y	3	N	039
71	19	1-CC-TE-100	CC HT EXCH OUTLET TEMP ELEMENT	Component Cooling	N	N	4	N	001
72	19	1-SW-TE-107	SERVICE WATER RETURN HEADER N 3 TEMP ELEMENT	Service Water	N	N	4	N	037
73	20	1-EP-CB-121A ^{1,2}	AR-LA3 AUXILIARY RELAY PANEL	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	028
74	20	1-EP-CB-121B ^{1,2}	AR-LB3 AUXILIARY RELAY PANEL	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	028
75	20	1-EI-CB-06B	AUXILIARY SHUTDOWN PANEL TRAIN B	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	018
76	20	1-EP-CB-116C ^{1,2}	CONTAINMENT ISOLATION TRIP VALVE RELAY PANEL	Electrical Instrumentation and Computer	N	N	5	N	007

Unit 1 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
77	20	1-EI-CB-23C ¹	SECONDARY PLANT PROCESS RACK C PROTECTION CH III	Electrical Instrumentation and Computer	N	N	1,3,4	Y	020
78	20	1-EI-CB-25 ²	HIC POWER SUPPLY PANEL	Electrical Instrumentation and Computer	N	N	2,3,4	N	027
79	20	1-EI-CB-300	TECHNICAL SUPPORT CENTER MULTIPLEXER CABINET	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	027
80	20	1-EI-CB-47D	SOLID STATE PROTECTION LOGIC CABINET (TRAIN B)	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	020
81	20	1-EI-CB-47F ¹	SOLID STATE PROTECTION OUTPUT CABINET (TRAIN B)	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	020
82	20	1-EI-CB-64B ¹	SOLID STATE PROT AUX RELAY RACK TRAIN B	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	020
83	21	1-RS-E-1C ²	INSIDE RECIRC SPRAY COOLER C	Recirculation Spray	Y	N	4		039
84	20	1-EP-CB-28B ¹	AUXILIARY RELAY CABINET B	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	020
85	20	1-EI-CB-63B	LOOP STOP VALVE PROT CABINET TRAIN B	Electrical Instrumentation and Computer	Y	N	3,4	N	020
86	20	1-EP-CB-116A ²	CONTAINMENT ISOLATION TRIP VALVE RELAY PANEL	Electrical Instrumentation and Computer	N	N	5	N	007
87	20	1-EE-EG-03C ^{1,2}	EMERGENCY DIESEL GENERATOR 1J CONTROL CABINET	Emergency Diesel Generator	N	N	1, 2, 3, 4, 5	Y	025
88	20	1-EP-CB-13AR ^{1,2}	HEAT TRACE DISTRIBUTION CABINET	Heat Trace	N	N	1	N	011
89	20	1-EG-PNL-1J ²	EDG CONTROL PANEL (1J EDG GAUGE PANEL)	Emergency Diesel Generator	N	N	1, 2, 3, 4, 5	N	025
90	20	1-EP-CB-219 ¹	SERVICE WATER AUX RELAY PANEL	Electrical Instrumentation and Computer	N	Y	4	N	020
91	21	1-CH-TK-1B	BORIC ACID STORAGE TANK B (BAST)	Chemical and Volume Control	Y	N	1,3	N	011
92	21	1-GN-TK-1B ²	1-RC-PCV-1455C PRZR PORV NITROGEN RESERVE TANK	Primary and Secondary Plant Gas Supply	Y	N	2	N	041
93	21	1-CC-E-1B	COMPONENT COOLING WATER HX B	Component Cooling	Y	N	4	N	001
94	21	1-CC-TK-1 ¹	COMPONENT COOLING SURGE TANK	Component Cooling	Y	N	4	Y	014
95	21	1-HV-TK-6B	6B HEAT AND VENT EXPANSION TANK	Ventilation	N	N	1, 2, 3, 4, 5	N	017

Unit 1 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
96	21	1-EG-TK-1J ¹	1J EMERGENCY DIESEL GEN FUEL OIL DAY TANK	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
97	21	1-EG-TK-1JB ¹	1J EMERGENCY DIESEL GEN STARTING AIR RECEIVER	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	025
98	21	1-RS-E-1D ²	INSIDE RECIRC SPRAY COOLER D	Recirculation Spray	Y	N	4	N	039
99	21	1-QS-TK-2 ¹	REFUELING WATER CHEM ADD TANK	Quench Spray	N	N	2,4	N	051
100	21	1-RS-E-2B	2B RS PP MECH SEAL SYSTEM WTR FILL LINE HEAT EXCH	Recirculation Spray	N	N	4	N	047
101	05	1-FC-P-1B ¹	1B SPENT FUEL PIT COOLING PUMP	Fuel Cooling and Purification	N	N	4	N	015
102	08A	1-SW-MOV-113B	SW/CCW FUEL PIT COOLERS ISOL (from U1 SSEL, MOVED TO SWEL 2)	Service Water	N	N	4	N	001
103	18	1-FC-PI-100B	1B SPENT FUEL PIT COOLING PP DISCH HDR PRESS INDR	Fuel Cooling and Purification	N	N	4	N	015
104	21	1-FC-E-1B ¹	1B SPENT FUEL PIT COOLER	Fuel Cooling and Purification	N	N	4	N	015

Notes:

- A. ¹ Items were selected for an anchorage inspection.
- ² Component not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible.

B. Safety Functions:

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

5. Unit 1 Summary Tables

Unit 1 SWEL Equipment Class Summary

GIP Class	Class Title	Items
0	Miscellaneous	3
1	Motor Control Centers	3
2	Low Voltage Switchgear	2
3	Medium Voltage Switchgear	1
4	Transformers	3
5	Horizontal Pumps	6
6	Vertical Pumps	4
7	Fluid Operated Valves	9
8	Motor Operated Valves	10
	Solenoid Operated Valves	3
9 ¹	Fans	–
10	Air Handlers	1
11	Chillers	1
12 ¹	Air Compressors	–
13 ¹	Motor Generators	–
14	Distribution Panels	3
15	Batteries on Racks	2
16	Battery Chargers and Inverters	2
17	Engine Generators	1
18	Instruments on Racks	19
19	Temperature Sensors	2
20	Instrumentation and Control Panels and Racks	17
21	Tanks and Heat Exchangers (GIP Section 7)	12
	TOTAL	104

¹ Base List (SSEL) did not contain equipment from these classes.

Unit 1 SWEL System Summary

System Description	Equipment Count
Auxiliary Feedwater System (AFW)	7
Chemical and Volume Control (CH)	6
Component Cooling	6
Containment Vacuum and Leakage Monitoring (CV)	1
Electrical Instrumentation and Computer (EI)	14
Emergency Diesel Generator (EG)	9
Emergency Power (EP)	13
Feedwater (FW)	3
Fuel Cooling and Purification (FC)	3
Heat Trace	2
Instrument Air (IA)	1
Main Steam (MS)	2
Primary and Secondary Plant Gas Supply (GN)	1
Quench Spray (QS)	3
Reactor Coolant (RC)	6
Reactor Protection	1
Recirculation Spray (RS)	8
Residual Heat Removal (RH)	1
Safety Injection (SI)	3
Service Water (SW)	1
Steam Generator Blowdown (BD)	8
Ventilation (HV)	5
TOTAL	104

6. Unit 2 SWEL

Unit 2 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
1	0	2-HV-SAD-2H (assoc. with 2HV-LV-200)	EDG ROOM 2H SUPPLY AIR DAMPER (from U1 SSEL)	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
2	0	2-RS-S-A1	RECIRC SPRAY PUMP STRAINER MODULE #A-1	Recirculation Spray	Y	Y	3	N	054
3	0	2-SI-S-A2	LHSI PUMP STRAINER MODULE #A-2	Safety Injection	Y	Y	3	N	054
4	01	2-EE-MCC-2H1-2S ²	MOTOR CONTROL CENTER 2H1-2S (2-EP-MC-20)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	010
5	01	2-EE-MCC-2H1-3A ^{1,2}	MOTOR CONTROL CENTER 2H1-3A (2-EP-MC-50)	Emergency Power	Y	N	1, 2, 3, 4, 5	Y	037
6	01	2-EE-MCC-2H1-1A ^{1,2}	MOTOR CONTROL CENTER 2H1-1A (2-EP-MC-12)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	026
7	02	2-EP-BKR-RTA ¹	A REACTOR TRIP BREAKER UNIT 2	Reactor Protection	N	N	1	N	013
8	02	2-EE-SS-2H1 ²	2H1 480 VOLT EMERGENCY SWITCHGEAR 2-EE-SS-03	Emergency Power	Y	N	1, 2, 3, 4, 5	N	013
9	03	2-EE-SW-2H ²	4160V EMERGENCY BUS "2H" (2-EE-SW-01)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	022
10	04	2-EE-TRANS-42N-2 ²	HT DIST & CTRL PNLS 2-EP-CB-42AN/BN/N1 XFMR (TRANS 42N-2)	Heat Trace	N	N	1	N	053
11	04	2-EE-ST-2J ¹	480V EMERGENCY SWGR 2J TRANSFORMER (2-EE-ST-04)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	022
12	04	2-EE-ST-2J1 ¹	480V EMERGENCY SWGR 2J-1 TRANSFORMER (2-EE-ST-04)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	013
13	05	2-CH-P-1A	A CHARGING PUMP	Chemical and Volume Control	Y	N	1,3	N	008
14	05	2-FW-P-2 ¹	TURBINE-DRIVEN AUXILIARY FEEDWATER PUMP (TDAFWP)	Auxiliary Feedwater	Y	N	2,4	N	053
15	05	2-CC-P-1A ¹	1A COMPONENT COOLING PUMP	Component Cooling	Y	N	4	N	001
16	05	2-EG-P-2HA ¹	2HA EMERGENCY DIESEL GENERATOR FUEL OIL PUMP	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	016
17	05	2-QS-P-1A ¹	A QUENCH SPRAY PUMP	Quench Spray	Y	N	4,5	N	061

Unit 2 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
18	06	2-SW-P-1A ¹	A SERVICE WATER PUMP	Service Water	Y	N	4	N	036
19	06	2-HV-P-20A ¹	HEATING AND VENTILATION PUMP 20A	Ventilation	N	N	1, 2, 3, 4, 5	N	021
20	06	2-SI-P-1A ¹	LOW HEAD SAFETY INJECTION PUMP 'A'	Safety Injection	Y	N	1,3	N	063
21	06	2-RS-P-2A ¹	A OUTSIDE RECIRC SPRAY PUMP	Recirculation Spray	Y	N	4,5	N	062
22	07	2-RC-PCV-2455C	PRZR PORV	Reactor Coolant	Y	N	2,4	Y	057
23	07	2-MS-TV-201A	SG A MSIV	Main Steam	Y	N	2,4	N	059
24	07	2-MS-TV-211A	TDAFW STEAM SUPPLY VALVE	Auxiliary Feedwater	Y	N	2,4	N	058
25	07	2-FW-PCV-259A	FW/AFWP TO SG B CONTROL VALVE	Auxiliary Feedwater	N	N	2,4	N	052
26	07	2-FW-FCV-2479	A MAIN FEED REG BYPASS VALVE	Feedwater	N	N	2,4	Y	035
27	07	2-MS-TV-210	MS DRAIN HDR TO BLOWDOWN SYSTEM TRIP VALVE	Main Steam	N	N	5	N	058
28	07	2-BD-TV-200A	A SG BLOWDOWN OUTSIDE TRIP VALVE	Steam Generator Blowdown	N	N	5	N	003
29	07	2-CV-TV-250A	A CNTMT VACUUM PUMP SUCTION ISOL	Containment Vacuum and Leakage Monitoring	N	N	5	N	003
30	07	2-CC-TV-202A	1C RCP CC RETURN OUTSIDE ISOL VALVE	Component Cooling	N	N	5	N	003
31	07	2-IA-TV-202A	A CNTMT INSTRUMENT AIR TRIP VALVE	Instrument Air	N	N	5	N	003
32	08A	2-CH-MOV-2267A	1A CHARGING PUMP NRMAL SUCTION ISOLATION VALVE	Chemical and Volume Control	N	N	1,3	N	008
33	08A	2-RC-MOV-2535	PRZR PORV BLOCK VALVE	Reactor Coolant	N	N	2,3,4	N	057
34	08A	2-CH-MOV-2115D	CHG PUMP SUCTION FROM RWST ISOLATION VALVE	Chemical and Volume Control	Y	N	1,3	N	003
35	08A	2-FW-MOV-200A	STEAM GENERATOR A FROM AFW INLET ISOLATION VALVE	Auxiliary Feedwater	N	N	2,4	N	052
36	08A	2-RH-MOV-2720B	RESIDUAL HEAT REMOVAL TO C RCS LOOP	Residual Heat Removal	N	N	4	N	054
37	08A	2-SI-MOV-2865B	B SI ACCUMULATOR DISCHARGE ISOL VALVE	Safety Injection	N	N	1,3,4	N	054
38	08A	2-SW-MOV-223A	SW RET HDR N 3 BYPASS LINE TO RSVR ISOL VALVE	Service Water	Y	N	4	N	037

Unit 2 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
39	08A	2-SW-MOV-208A	SW SUPPLY TO CC HEAT EXCHANGERS	Service Water	Y	N	4	N	001
40	08A	2-SW-MOV-204A	SW RETURN FROM A RSHX ISOL VALVE	Service Water	Y	N	4	N	060
41	08B	2-RC-SOV-2456-1	2-RC-PCV-2456 INSTRUMENT AIR SUPPLY SOV	Reactor Coolant	Y	N	2,4	Y	057
42	08B	2-MS-SOV-211A	2-MS-TV-211A INSTRUMENT AIR SUPPLY SOV	Auxiliary Feedwater	Y	N	2,4	N	060
43	08B	2-FW-SOV-2479-1	SOLENID OPERATED VALVE	Feedwater	N	N	2,4	N	035
44	10	2-HV-AC-8 ¹	CONTROL ROOM AIR CONDITIONER	Ventilation	N	N	1, 2, 3, 4, 5	N	033
45	11	2-HV-E-4A ¹	HEATING AND VENTILATION CHILLER 4A	Ventilation	N	N	1, 2, 3, 4, 5	N	021
46	14	2-EP-CB-42AN ^{1,2}	HEAT TRACING DISTRIBUTION PANEL	Heat Trace	N	N	1	N	053
47	14	2-EP-CB-12A ²	125 VDC DISTRIBUTION PANEL 2-I	Emergency Power	Y	N	1, 2, 3, 4, 5	N	022
48	14	2-EP-CB-04A	120 VAC VITAL BUS DISTRIBUTION PANEL 2-I (RED & ORANGE)	Emergency Power	Y	N	1, 2, 3, 4, 5	N	030
49	15	2-BY-B-2-II	STATION BATTERY 2-II	Emergency Power	Y	N	1, 2, 3, 4, 5	N	023
50	15	2-EG-B-02B ¹	EMERGENCY DIESEL GENERATOR 2H BATTERY 2B RACK	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	Y	026
51	16	2-BY-BC-2C-I ¹	125V BUS 2-I AND 2-II SWING BTRY CHGR (2-BY-C-03)	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	022
52	16	2-VB-INV-02 ²	VITAL BUS DISTRIBUTION PANEL 2-II INVERTER	Emergency Power	Y	Y	1, 2, 3, 4, 5	N	022
53	17	2-EE-EG-2H	EMERGENCY DIESEL GENERATOR 2H	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
54	18	2-CH-FT-2130	.1A RCP SEAL INJECTION HEADER FLOW TRANSMITTER	Chemical and Volume Control	Y	N	1	N	004
55	18	2-RC-PT-2472	PRESSURIZER RELIEF TANK PRESSURE TRANSMITTER	Reactor Coolant	N	N	2	N	054
56	18	2-RC-LIS-2312 ¹	RVLIS TRAIN A SEAL TABLE ISOLATOR LVL INDR SWITCH	Reactor Coolant	N	N	3	N	010
57	18	2-RC-LT-2312	REAC VESSEL RVLIS TRAIN A WIDE RANGE LEVEL XMTR	Reactor Coolant	N	N	3	N	010
58	18	2-QS-LT-200C ¹	RWST LOW LEVEL TRANSMITTER	Quench Spray	Y	N	3	N	065

Unit 2 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
59	18	2-MS-PT-2474	A MAIN STEAM HEADER TO TURBINE PRESS TRANSMITTER	Main Steam	N	N	2,4	N	060
60	18	2-MS-PY-201A	A SG POWER OPERATED RELIEF VV E/P CONVERTER	Main Steam	N	N	2,4	N	061
61	18	2-CN-LT-200A ¹	EMERGENCY CONDENSATE STORAGE TANK LEVEL TRANSMITTER	Auxiliary Feedwater	Y	N	2,4	N	052
62	18	2-FW-PT-203A	TURBINE DRIVEN AFW PUMP SUCTION PRESS TRANSMITTER	Auxiliary Feedwater	N	N	2,4	N	053
63	18	2-FW-FT-200A ¹	AFW PUMPS OUTLET TO S/G A FLOW TRANSMITTER	Auxiliary Feedwater	N	N	2,4	N	052
64	18	2-FW-LT-2487	1B STEAM GENERATOR WIDE RANGE LEVEL XMTR	Feedwater	N	N	2,4	N	055
65	18	2-SW-PT-201A ¹	1A SERVICE WATER PUMP DISCH PRESS TRANSMITTER	Service Water	N	N	4	N	036
66	18	2-HV-FS-2215A	HEAT AND VENT PP 22A SW SEAL WTR SPLY FLOW SWITCH	Ventilation	N	N	1, 2, 3, 4, 5	N	021
67	18	2-EG-LS-203-HA ¹	2H EMERGENCY DIESEL GEN DAY TANK HI LEVEL SWITCH	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
68	18	2-FW-PC-259A ¹	AFW MOV HDR PCV 2-FWPCV-259A PRESS CONTR	Auxiliary Feedwater	N	N	2,4	N	052
69	18	2-RS-LT-203A	CASING CLG TANK RECIRC SPRAY LEVEL TRANSMITTER	Recirculation Spray	N	N	4	N	064
70	18	2-CH-FT-2114	PG WATER TO BORIC ACID BLENDER FLOW TRANSMITTER	Chemical and Volume Control	N	Y	1,3	N	011
71	18	2-RS-LT-251A-1	REACTOR CONTAINMENT SUMP LEVEL TRANSMITTER	Recirculation Spray	N	Y	3	N	054
72	19	2-CC-TE-200	CC HT EXCH OUTLET TEMP ELEMENT	Component Cooling	N	N	4	N	001
73	20	2-EP-CB-121B ^{1,2}	AR-LB3 AUXILIARY RELAY PANEL	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	030
74	18	2-FW-PC-259B ¹	AFW HCV HDR PCV 2-FW-PCV259B PRESS CONTR	Auxiliary Feedwater	N	N	2,4	N	052
75	20	2-EI-CB-06A ¹	AUXILIARY SHUTDOWN PANEL TRAIN A	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	022

Unit 2 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
76	18	2-FW-FT-200B ¹	AFW PUMPS OUTLET TO S/G B FLOW TRANSMITTER	Auxiliary Feedwater	N	N	2,4	N	052
77	20	2-EI-CB-115A ²	CONTAINMENT ISOLATION TRIP VALVE RELAY PANEL	Electrical Instrumentation and Computer	N	N	5	N	010
78	20	2-EI-CB-23B ¹	SECONDARY PLANT PROCESS RACK B PROTECTION CH II	Electrical Instrumentation and Computer	N	N	1,3,4	Y	024
79	20	2-EI-CB-25 ²	HIC POWER SUPPLY CABINET	Electrical Instrumentation and Computer	N	N	2,3,4	N	029
80	20	2-EI-CB-300	TECHNICAL SUPPORT CENTER MULTIPLEXER CABINET	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	029
81	20	2-EI-CB-47C ¹	SOLID STATE PROTECTION LOGIC CABINET (TRAIN A)	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	024
82	20	2-EI-CB-47E ¹	SOLID STATE PROTECTION OUTPUT CABINET (TRAIN A)	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	024
83	20	2-EI-CB-64A ¹	SOLID STATE PROT SYS AUX RELAY RACK	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	024
84	20	2-EI-CB-202	EMERG SWGR RM DG ISOL PANEL (H-TRAIN)	Electrical Instrumentation and Computer	N	N	1, 2, 3, 4, 5	N	022
85	20	2-EI-CB-115B ²	CONTAINMENT ISOLATION TRIP VALVE RELAY PANEL	Electrical Instrumentation and Computer	N		5	N	010
86	20	2-EP-CB-28B ¹	AUXILIARY RELAY RACK B	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	Y	024
87	20	2-EI-CB-63A ¹	LOOP STOP VALVES PROT CABINET TRAIN A	Electrical Instrumentation and Computer	Y	N	3,4	N	024
88	20	2-EP-CB-121A ^{1,2}	AR-LA3 AUXILIARY RELAY PANEL	Electrical Instrumentation and Computer	Y	N	1, 2, 3, 4, 5	N	030
89	20	2-EE-EG-02C ^{1,2}	EMERGENCY DIESEL GENERATOR 2H CONTROL CABINET	Emergency Diesel Generator	N	N	1, 2, 3, 4, 5	N	026
90	20	2-EP-CB-42N1 ^{1,2}	HEAT TRACING CONTROLLER CABINET	Heat Trace	N	N	1	N	053
91	20	2-EG-PNL-2H ^{1,2}	2H EDG GAUGE PANEL	Emergency Diesel Generator	N	N	1, 2, 3, 4, 5	N	026
92	20	2-EP-CB-219 ¹	SERVICE WATER AUX RELAY PANEL	Electrical Instrumentation and Computer	N	Y	4	N	024
93	21	2-GN-TK-1A	1A NITROGEN RESERVE TANK	Primary and Secondary Plant Gas Supply	Y	N	2	N	056

Unit 2 Seismic Walkdown Equipment List (SWEL)									
Item #	Class	Equipment ID (Note A)	Description	System	Risk Significant (Y/N)	New or Replaced	Safety Functions (Note B)	IPEEE Enhanced	Area Walk-By
94	21	2-CC-E-1A	COMPONENT COOLING WATER HX 1A	Component Cooling	Y	N	4	N	001
95	21	2-HV-TK-6A	6A HEAT AND VENT EXPANSION TANK	Ventilation	N	N	1, 2, 3, 4, 5	N	021
96	21	2-EG-TK-2H ¹	2H EMERGENCY DIESEL GEN FUEL OIL DAY TANK	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
97	21	2-EG-TK-2HA ¹	2H EMERGENCY DIESEL GEN STARTING AIR RECEIVER	Emergency Diesel Generator	Y	N	1, 2, 3, 4, 5	N	026
98	21	2-RS-E-1D	INSIDE RECIRC SPRAY COOLER D	Recirculation Spray	Y	N	2,4	N	054
99	21	2-QS-TK-2	REFUELING WATER CHEM ADD TANK	Quench Spray	N	N	2,4	N	065
100	21	2-RS-E-2A	2A RS PP MECH SEAL SYSTEM WTR FILL LINE HEAT EXCH	Recirculation Spray	N	N	4	N	062
101	08A	2-SW-MOV-213A	SW/CCW FUEL PIT COOLERS ISOL	Service Water	N	N	4	N	001

Notes:

- A. ¹ Items were selected for an anchorage inspection.
- ² Component not sufficiently accessible to complete the walkdown inspection. To be inspected when accessible.

B. Safety Functions:

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

7. Unit 2 Summary Tables

Unit 2 SWEL Equipment Class Summary

GIP Equipment Class	Class Title	Equipment Count
0	Miscellaneous	3
1	Motor Control Centers	3
2	Low Voltage Switchgear	2
3	Medium Voltage Switchgear	1
4	Transformers	3
5	Horizontal Pumps	5
6	Vertical Pumps	4
7	Fluid Operated Valves	10
8	Motor Operated Valves	10
	Solenoid Operated Valves	3
9 ¹	Fans	–
10	Air Handlers	1
11	Chillers	1
12 ¹	Air Compressors	–
13 ¹	Motor Generators	–
14	Distribution Panels	3
15	Batteries on Racks	2
16	Battery Chargers and Inverters	2
17	Engine Generators	1
18	Instruments on Racks	20
19	Temperature Sensors	1
20	Instrumentation and Control Panels and Racks	18
21	Tanks and Heat Exchangers (GIP Section 7)	8
	TOTAL	101

¹ Base List (SSEL) did not include equipment from these classes.

SWEL System Summary – Unit 2

System Description	Equipment Count
Auxiliary Feedwater System (AFW)	11
Chemical and Volume Control (CH)	5
Component Cooling	4
Containment Vacuum and Leakage Monitoring (CV)	1
Electrical Instrumentation and Computer (EI)	15
Emergency Diesel Generator (EG)	9
Emergency Power (EP)	12
Feedwater (FW)	3
Fuel Cooling and Purification (FC)	0
Heat Trace	3
Instrument Air (IA)	1
Main Steam (MS)	4
Primary and Secondary Plant Gas Supply (GN)	1
Quench Spray (QS)	3
Reactor Coolant (RC)	6
Reactor Protection	1
Recirculation Spray (RS)	6
Residual Heat Removal (RH)	1
Safety Injection (SI)	3
Service Water (SW)	6
Steam Generator Blowdown (BD)	1
Ventilation (HV)	5
TOTAL	101

8. Unit 1 Area Walk-by List

Unit 1 Area Walk-by List			
Area Walk-by ID	Building	Elevation	Area Description
NA1-WB-001	Auxiliary Building	244'	Component Cooling Pumps Area (Vicinity of 8.7-10/F-H)
NA1-WB-002	Auxiliary Building	244'	Unit 1 Penetration Area (Vicinity of 6-8/J)
NA1-WB-005	Auxiliary Building	244'	Unit 1 "B" Charging Pump Cubicle
NA1-WB-006	Not Used		
NA1-WB-007	Auxiliary Building	259'	Unit 1 Cable Vault
NA1-WB-011	Auxiliary Building	274'	Boric Acid Storage Tanks Area (Vicinity of 8,9/G,J)
NA1-WB-012	Auxiliary Building	280'	Unit 1 Rod Drive Room
NA1-WB-014	Auxiliary Building	291'	Component Cooling Surge Tank Area (Vicinity of 9/F)
NA1-WB-015	Fuel Building	249'	Basement -Spent Fuel Pit Cooling Pumps Area (Vicinity of 7.5/Q)
NA1-WB-016	Fuel Oil Pump House	271'	Fuel Oil Pump House
NA1-WB-017	Service Building	254'	Unit 1 Chiller Room
NA1-WB-018	Service Building	254'	Unit 1 Emergency Switchgear Room
NA1-WB-019	Service Building	254'	Battery Room 1-IV
NA1-WB-020	Service Building	254'	Unit 1 Instrument Rack Room (or Instrument Relay Room)
NA1-WB-025	Service Building	271'	1J Emergency Diesel Generator Room
NA1-WB-027	Service Building	276'	Unit 1 Main Control Room
NA1-WB-028	Service Building	276'	Unit 1 Main Control Room -Hathaway Room (or Logic Room)
NA1-WB-032	Service Building	276'	Unit 1 Main Control Room -Air Conditioner Room #3
NA1-WB-034	Service Building	291'	Unit 1 Mechanical Equipment Room
NA1-WB-036	Service Water Pump House	328'	Top Level (Entrance Level)
NA1-WB-037	Service Water Valve House	328'	Top Level (Entrance Level)
NA1-WB-038	Unit 1 Auxiliary Feedwater Pump House	271'	Unit 1 Motor-Driven Auxiliary Feedwater Pump House
NA1-WB-039*	Unit 1 Containment	216'	Basement, Vicinity of Columns 8-12
NA1-WB-040*	Unit 1 Containment	244'	Pipe Penetration Area
NA1-WB-041	Not Used		
NA1-WB-042*	Unit 1 Containment	308'	Pressurizer Cubicle -Upper Platform
NA1-WB-043	Unit 1 Main Steam House	271'	Bottom Level (Entrance Level)

Unit 1 Area Walk-by List			
Area Walk-by ID	Building	Elevation	Area Description
NA1-WB-044	Unit 1 Main Steam House	282'	Second Level
NA1-WB-045	Unit 1 Quench Spray Pump House	256'	Bottom Level
NA1-WB-046	Unit 1 Quench Spray Pump House	271'	Second Level (Entrance Level)
NA1-WB-047	Unit 1 Safeguards	256'	"B" Outside Recirculation Spray Pump Cubicle
NA1-WB-048	Unit 1 Safeguards	256'	"B" Safety Injection Pump Cubicle
NA1-WB-049	Unit 1 Safeguards	267'	Top Level (Entrance Level)
NA1-WB-050	Unit 1 Yard	271'	Vicinity of Casing Cooling Tank
NA1-WB-051	Unit 1 Yard	271'	Vicinity of RWST and Chem Add Tank

* Walk-by not completed - associated SWEL items inaccessible during normal plant operations.

9. Unit 2 Area Walk-by List

Unit 2 Area Walk-by List			
Area Walk-by ID	Building	Elevation	Area Description
NA1-WB-001*	Auxiliary Building	244'	Component Cooling Pumps Area (Vicinity of 8.7-10/F-H)
NA2-WB-003	Auxiliary Building	244'	Unit 2 Penetration Area (Vicinity of 11,12/J)
NA2-WB-004	Auxiliary Building	244'	Unit 2 Penetration Area (Vicinity of 12/N)
NA2-WB-008	Auxiliary Building	244'	Unit 2 "A" Charging Pump Cubicle
NA2-WB-009	Not Used		
NA2-WB-010	Auxiliary Building	259'	Unit 2 Cable Vault
NA1-WB-011*	Auxiliary Building	274'	Boric Acid Storage Tanks Area (Vicinity of 8,9/G,J)
NA2-WB-013	Auxiliary Building	280'	Unit 2 Rod Drive Room
NA1-WB-016*	Fuel Oil Pump House	271'	Fuel Oil Pump House
NA2-WB-021	Service Building	254'	Unit 2 Chiller Room
NA2-WB-022	Service Building	254'	Unit 2 Emergency Switchgear Room
NA2-WB-023	Service Building	254'	Battery Room 2-II
NA2-WB-024	Service Building	254'	Unit 2 Instrument Rack Room (or Instrument Relay Room)
NA2-WB-026	Service Building	271'	2H Emergency Diesel Generator Room
NA2-WB-029	Service Building	276'	Unit 2 Main Control Room
NA2-WB-030	Service Building	276'	Unit 2 Main Control Room -Computer Room
NA2-WB-031	Not Used		
NA2-WB-033	Service Building	276'	Unit 2 Main Control Room -Air Conditioner Room #4
NA2-WB-035	Service Building	291'	Unit 2 Mechanical Equipment Room
NA1-WB-036*	Service Water Pump House	328'	Top Level (Entrance Level)
NA1-WB-037*	Service Water Valve House	328'	Top Level (Entrance Level)
NA2-WB-052	Unit 2 Auxiliary Feedwater Pump House	271'	Unit 2 Motor-Driven Auxiliary Feedwater Pump House
NA2-WB-053	Unit 2 Auxiliary Feedwater Pump House	271'	Unit 2 Turbine-Driven Auxiliary Feedwater Pump House
NA2-WB-054	Unit 2 Containment	216'	Basement, Vicinity of Columns 4-9
NA2-WB-055	Unit 2 Containment	244'	Pipe Penetration Area
NA2-WB-056	Not Used		
NA2-WB-057	Unit 2 Containment	308'	Pressurizer Cubicle -Upper Platform
NA2-WB-058	Unit 2 Main Steam Valve House	271'	Bottom Level (Entrance Level)

Unit 2 Area Walk-by List			
Area Walk-by ID	Building	Elevation	Area Description
NA2-WB-059	Unit 2 Main Steam Valve House	282'	Second Level
NA2-WB-060	Unit 2 Quench Spray Pump House	256'	Bottom Level
NA2-WB-061	Unit 2 Quench Spray Pump House	272'	Second Level (Entrance Level)
NA2-WB-062	Unit 2 Safeguards	256'	"A" Outside Recirculation Spray Pump Cubicle
NA2-WB-063	Unit 2 Safeguards	256'	"A" Safety Injection Pump Cubicle
NA2-WB-064	Unit 2 Yard	271'	Vicinity of Casing Cooling Tank
NA2-WB-065	Unit 2 Yard	271'	Vicinity of RWST and Chem Add Tank

* Unit 1 Area Walk-by includes Unit 2 SWEL items.

Appendix C

Unit 1 Seismic Walkdown Checklists

(150 pages)

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-001

AWC # NA1-WB-025

Status Y N U

Equipment ID No. 1-HV-SAD-1J Equip. Class 0
(1-HV-LV-101)

Equipment Description HV/DG ROOM 1J SUPPLY AIR DAMPER

Location: Bldg. SB Floor El. 271 Room, Area IJ EDG

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
 - *Floor clips: anchors have superficial corrosion—okay. Also rivets to louver frame corroded and some missing. Outward seismic displacement may load remaining clips but this function may not be needed.*
 - *Horizontal support (north-south) provided by floor clips without rivets present, plus outside alleyway pavement. Acceptable.*
 - *CR 483470 generated.*

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Epoxy degradation on floor. Not seismic issue.

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.)

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-001


6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
- Missing counter weight. One of many—acceptable.*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
- Space heat unit above has four (4) rod supports—okay.*
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Glenn Gardner  Date: 7/31/2012Evaluated by: Xuan Hoang  Date: 7/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-010

AWC # NA1-WB-018

Status Y N U

Equipment ID No. 1-EE-ST-1J Equip. Class 04

Equipment Description EE/4160/480 SERVICE TRANSFORMER 1J

Location: Bldg. SB Floor El. 254 Room, Area ESGR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of 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.

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-010

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

NOTE: Transformers 1-EE-ST-1J and 1-EE-ST-1J1 were replaced per DCP 06-118. A post-installation SQUG walkdown was performed on 4/12/2012 by Ellery Baker and Joe Vasquez. Refer to Calculation CE-1394, Rev. 0, Add. 00A (in-progress). The SQUG walkdown performed exceeds the requirements of anchorage inspections per this procedure.

*- EJB 7/31/12
- DDV 7/31/12*

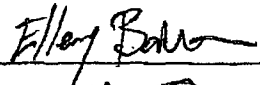
Interaction Effects

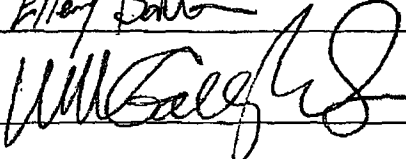
- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
- 9. Do attached lines have adequate flexibility to avoid damage?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

Comments (Additional pages may be added as necessary)

Evaluated by: Ellery Baker  Date: 7/26/2012

Evaluated by: William Gallagher  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-011

AWC # NA1-WB-012

Status Y N U

Equipment ID No. 1-EE-ST-1J1 Equip. Class 04

Equipment Description EE/4160/480 SERVICE TRANSFORMER 1J1

Location: Bldg. AB Floor El. 280 Room, Area ROD DRIVE 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

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-011

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Transformer 1-EE-ST-1J and 1-EE-ST-1J1 were replaced per DCP 06-118. A post-installation SQUG walkdown was performed on 04/12/2012 by Ellery Baker and Joe Vasquez. Refer to Calculation CE-1394, Rev. 0, Addendum 00A (in progress). The SQUG walkdown performed exceeds the requirements of anchorage inspections per the procedure. DJV 7/31/12
-EJB 7/31/12

Interaction Effects

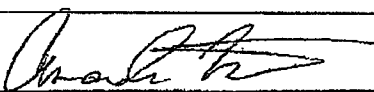
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Type A spool piece stored on elevated platform east of transformer secured with locked chain to platform; chain adequate to prevent interaction with transformer and nearby equipment.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Overhead fluorescent lights evaluated under IPEEE as 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)

None

Evaluated by: Amanda McEnroe  Date: 07/31/2012

Evaluated by: Daniel J. Vasquez  Date: 07/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-013AWC # NA1-WB-038Status Y N UEquipment ID No. 1-FW-P-3B Equip. Class 05Equipment Description FW/MOTOR DRIVEN AUXILIARY FEEDWATER PUMP (MDAFWP)Location: Bldg. AFWPH Floor El. 271 Room, Area AFWPH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-013Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
Bearing seal leakoff piping at base of pump, northwest corner and north side, loose U-bolt supports. See attached photo. Deadweight support function is acceptable. This piping has no targets. Possible maintenance to tighten/double nut U-bolts. CR482723
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: Xuan Hoang  Date: 7/24/2012

Evaluated by: Glenn Gardner  Date: 7/24/2012



Photo 1

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-014AWC # NA1-WB-005Status Y N UEquipment ID No. 1-CH-P-1B Equip. Class 05Equipment Description CH/CENTRIFUGAL CHARGING PUMP B;Location: Bldg. AB Floor El. 244 Room, Area "B" 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

Seismic Walkdown Checklist (SWC)

SWC # NA1-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
Lights not chained, but no interaction concerns. Okay as-is. Lights do pivot.

Comments (Additional pages may be added as necessary)

None.

Evaluated by: William Gallagher  Date: 7/24/2012

Evaluated by: Ellery Baker  Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-015AWC # NA1-WB-001Status Y N U Equipment ID No. 1-CC-P-1B Equip. Class 05Equipment Description CC/COMPONENT COOLING WATER PUMPLocation: Bldg. AB Floor El. 244 Room, Area 8.7/GH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of 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

4. Is the anchorage 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
Equipment anchorage was verified during NAPS post-seismic walkdowns following the 08/23/2011 earthquake (Reference ETE NA-2011-0056, Revision 1).

Seismic Walkdown Checklist (SWC)

SWC # NA1-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

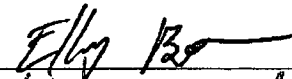
Other Adverse Conditions

- 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U
Stanchion baseplate for 1-CC-PI-1008E of pump has loose anchors as evidenced by rocking when minimal force is applied. Deemed acceptable, as anchor does engage and the attached tubing has sufficient flexibility. CR 483321 written.

Comments (Additional pages may be added as necessary)

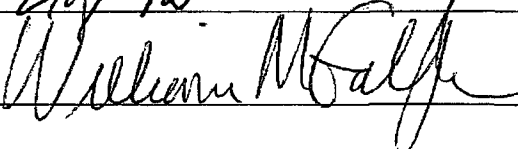
Walkdown of anchorage performed during post-seismic walkdowns.

Evaluated by: Ellery Baker



Date: 7/30/2012

Evaluated by: William Gallagher



Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-016

AWC # NA1-WB-016

Status Y N U

Equipment ID No. 1-EG-P-1JA Equip. Class 05

Equipment Description EG/EDG 1J LEAD FO TRANSFER PUMP

Location: Bldg. FOPH Floor El. 270 Room, Area FUEL OIL PUMP HOUSE

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Pump anchors look good
Adjacent support 3 cut off anchors are acceptable – wing plate and stiffeners added previously
- 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
- 4. Is the anchorage 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 Sketch 1 on continuation page

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-016

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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

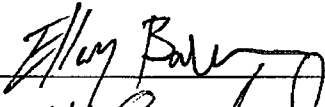
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments (Additional pages may be added as necessary)

See continuation page for Sketch 1

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-016

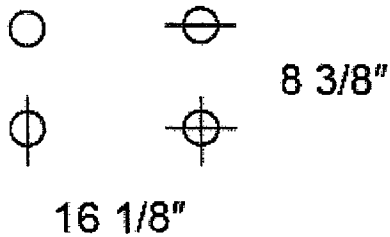
Evaluated by: Ellery Baker  Date: 7/23/2012

Evaluated by: William Gallagher, Sr.  Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-016

Comments (continuation page)



Sketch 1: Pump Base Anchorage Configuration (not to scale)

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-017

AWC # NA1-WB-046

Status Y N U

Equipment ID No. 1-QS-P-1B Equip. Class 05

Equipment Description QS/QS PUMP B

Location: Bldg. QSPH Floor El. 272 Room, Area QUENCH SPRAY PUMPS HOUSE

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Anchor on northwest corner is missing washer, very little thread exposed, not a structural concern.

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

4. Is the anchorage 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 # NAI-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? Y 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: David M. DeMello  Date: 7/23/2012

Evaluated by: Tim Knoebel  Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-018AWC # NA1-WB-036Status Y N UEquipment ID No. 1-SW-P-1B Equip. Class 06Equipment Description SW/SERVICE WATER PUMP BLocation: Bldg. SWPH Floor El. 328 Room, Area SWPH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors?
Visible concrete showed no signs of cracking. Y N U N/A

5. Is the anchorage configuration consistent 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 USI A-46 SEWS. 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 # NA1-WD-SWEL-018

Interaction Effects

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

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

- 9. Do attached lines have adequate flexibility to avoid damage? Y 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: Amanda McEnroe  Date: 7/25/2012

Evaluated by: Daniel J. Vasquez  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-019AWC # NA1-WB-017Status Y N U Equipment ID No. 1-HV-P-20B Equip. Class 06Equipment Description HV/CHILLED WATER PUMPLocation: Bldg. SB Floor El. 254 Room, Area CHILLER 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
Minor corrosion of bolts and base.

4. Is the anchorage 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.)
Consistent with SEWS.

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-019

Interaction Effects

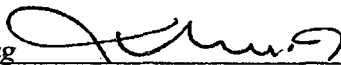
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Xuan Hoang  Date: 7/25/2012

Evaluated by: Glenn Gardner  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-020AWC # NA1-WB-048Status Y N UEquipment ID No. 1-SI-P-1B Equip. Class 06Equipment Description SI/LHSI PUMP BLocation: Bldg. SFGD Floor El. 255 Room, Area "B" SI 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

- Middle anchor on north side of north plate (lower support) is drilled and tapped with a hex-head bolt installed in lieu of the stud—found to be seismically 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 # NA1-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

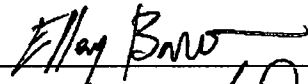
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

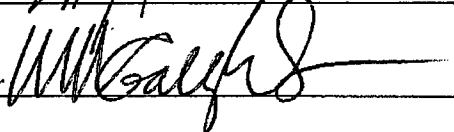
Other Adverse Conditions

- 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: Ellery Baker  Date: 7/25/2012

Evaluated by: William Gallagher  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-021AWC # NA1-WB-047Status Y N U Equipment ID No. 1-RS-P-2B Equip. Class 06Equipment Description RS/OUTSIDE RECIRC SPRAY PUMP BLocation: Bldg. SFDG Floor El. 256 Room, Area "B" RS 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
- Per drawing 11715-FV-4B.*
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Seismic Walkdown Checklist (SWC)

SWC # NA1-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

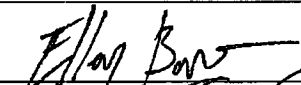
Other Adverse Conditions

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)

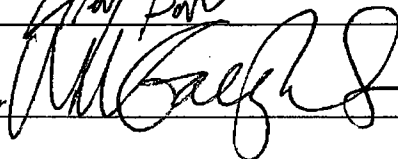
None.

Evaluated by: Ellery Baker



Date: 7/24/2012

Evaluated by: William Gallagher



Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-022AWC # NA1-WB-038Status Y N UEquipment ID No. 1-FW-PCV-159B Equip. Class 07Equipment Description FW/AFWP TO SG C CONTROL VALVELocation: Bldg. AFWPH Floor El. 274 Room, Area AFWPH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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

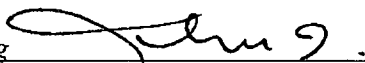
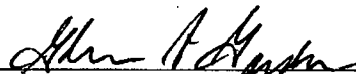
Seismic Walkdown Checklist (SWC)

SWC # NA1-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
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Xuan HoangDate: 7/23/2012Evaluated by: Glenn GardenerDate: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-023

AWC # NA1-WB-002

Status Y N U

Equipment ID No. 1-CC-TV-102E Equip. Class 07

Equipment Description CC/RCP CC RETURN CONTMT ISOL

Location: Bldg. AB Floor El. 244 Room, Area PEN. AREA 6.5/J

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
- 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
- 4. Is the anchorage 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 # NA1-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

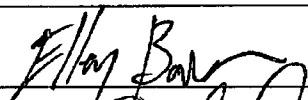
Other Adverse Conditions

- 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)


None.

Evaluated by: Ellery Baker



Date: 7/24/2012

Evaluated by: William Gallagher



Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-024

AWC # NA1-WB-002

Status Y N U

Equipment ID No. 1-IA-TV-102B Equip. Class 07

Equipment Description IA/INSTR AIR HEADER CONTMT ISOL

Location: Bldg. AB Floor El. 244 Room, Area PEN. AREA 6.5/J

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-024Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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

Attached Instrument Air copper tube coil is shorter than what seems normal. Not a concern.

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Ellery Baker

Date: 7/24/2012

Evaluated by: William Gallagher

Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-026

AWC # NA1-WB-044

Status Y N U

Equipment ID No. 1-MS-TV-101B Equip. Class 07

Equipment Description MS/SG B MSIV

Location: Bldg. MSVH Floor El. 282 Room, Area MSVH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Whip restraint immediately adjacent is satisfactory.

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

4. Is the anchorage 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 # NA1-WD-SWEL-026

Interaction Effects

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

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

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


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

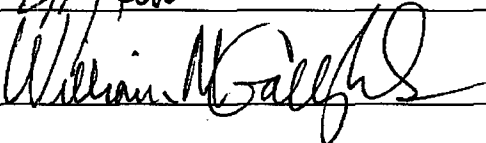
Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Ellery Baker  Date: 7/30/2012

Evaluated by: William Gallagher  Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-027

AWC # NA1-WB-043

Status Y N U

Equipment ID No. 1-MS-TV-111B Equip. Class 07

Equipment Description MS/TDAFW STEAM ADMISSION

Location: Bldg. MSVH Floor El. 272 Room, Area MSVH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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 # NA1-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
-

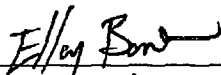
Other Adverse Conditions

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)

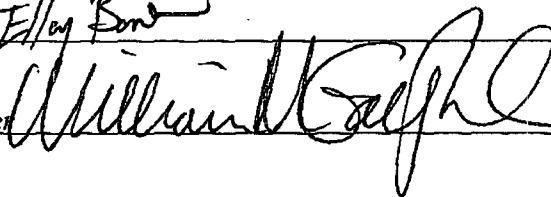
None.

Evaluated by: Ellery Baker



Date: 7/30/2012

Evaluated by: William Gallagher



Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-028AWC # NA1-WB-034Status Y N UEquipment ID No. 1-FW-FCV-1488 Equip. Class 07Equipment Description FLOW CONTROL TO S/G 1BLocation: Bldg. SB Floor El. 244 Room, Area MER #1

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA1-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?
No lateral restraint on cable tray. Due to other structural items in area, don't feel this is concern. Y N U N/A

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

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

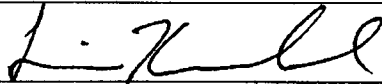
Other Adverse Conditions

- 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: Tim Knoebel



Date: 7/25/2012

Evaluated by: David DeMello



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-030AWC # NA1-WB-002Status Y N U Equipment ID No. 1-CV-TV-150D Equip. Class 07Equipment Description CV/ATMOS CLEANUP CONTMT ISOLLocation: Bldg. AB Floor El. 244 Room, Area PEN. AREA 7/J

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-030

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Instrument Air small leak at 1-IA-321. CR 482650 written to address.

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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

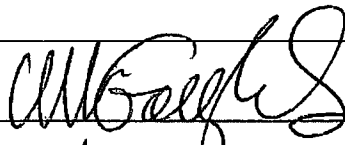
Other Adverse Conditions

- 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)

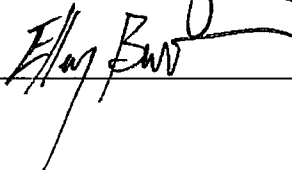
None.

Evaluated by: *William Gallagher*



Date: *7/24/2012*

Evaluated by: *Ellery Baker*



Date: *7/24/2012*

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-031AWC # NA1-WB-005Status Y N U Equipment ID No. 1-CH-MOV-1269A Equip. Class 08AEquipment Description CH/CHARGING PUMP B INLET ISOLLocation: Bldg. AB Floor El. 245 Room, Area "B" 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

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-031

Interaction Effects

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

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

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

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

Other Adverse Conditions

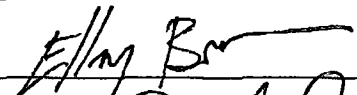
- 11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Anchor adjacent has two/four anchors each lacking ~ 1 thread of full engagement. Acceptable by judgment.

Comments (Additional pages may be added as necessary)

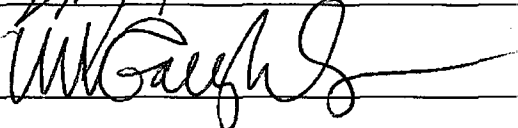
None.

Evaluated by: Ellery Baker



Date: 7/24/2012

Evaluated by: William Gallagher



Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-033

AWC # NA1-WB-002

Status Y N U

Equipment ID No. 1-CH-MOV-1115B Equip. Class 08A

Equipment Description CH-RWST TO CCP INLET ISOL

Location: Bldg. AB Floor El. 244 Room, Area PEN. AREA 7.6/J

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-033Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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

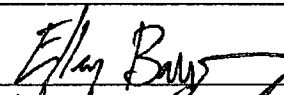
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Job boxes nearby chained and stored satisfactorily per VPAP-0312.

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Ellery Baker



Date: 7/24/2012

Evaluated by: William Gallagher



Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-036

AWC # NA1-WB-037

Status Y N U

Equipment ID No. 1-SW-MOV-122B Equip. Class 08A

Equipment Description SW/SW TO ARRAYS

Location: Bldg. SWVH Floor El. _____ Room, Area SWVH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

- 5. Is the anchorage configuration consistent 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 # NA1-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

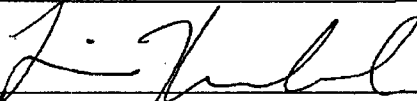
Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: David DeMello  Date: 8/1/2012

Evaluated by: Tim Knoebel  Date: 8/1/2012

VeSeismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-037

AWC # NA1-WB-001

Status Y N U

Equipment ID No. 1-SW-MOV-108B Equip. Class 08A

Equipment Description SW/CC HX INLET ISOL

Location: Bldg. AB Floor El. 244 Room, Area CC PUMPS 9/G

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Vertical strut immediately adjacent is missing bottom anchor on west side of plate. Anchor eliminated per note 3 on associated drawing 11715-PSSK-105B.4.

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

4. Is the anchorage 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

VeSeismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-037

Interaction Effects

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

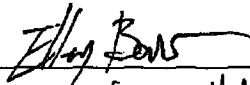
Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

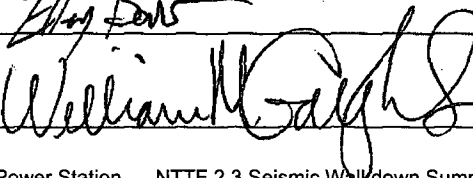
None

Evaluated by: Ellery Baker



Date: 07/30/2012

Evaluated by: William Gallagher



Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-038AWC # NA1-WB-045Status Y N UEquipment ID No. 1-SW-MOV-104D Equip. Class 08AEquipment Description SW/RECIRC SPRAY COOLER D DISH ISOLLocation: Bldg. OSPH Floor El. 256 Room, Area OSPH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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

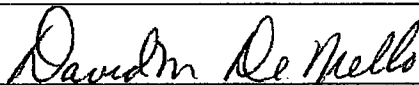
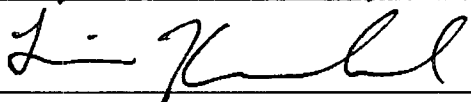
Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-038Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Free from impact.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
Electrical lines have adequate slack.
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: David M. DeMelloDate: 7/23/2012Evaluated by: Tim KnoebelDate: 7/23/2012

Seismic Walkdown Checklist (SWC)SWC # NA1-WD-SWEL-039AWC # NA1-WB-049Status Y N UEquipment ID No. 1-RS-MOV-101B Equip. Class 08AEquipment Description RS/CASING COOLING PUMP B DISCH ISOLLocation: Bldg. SFGD Floor El. 267 Room, Area SFGD

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA1-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
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Ellery Baker  Date: 7/24/2012

Evaluated by: William Gallagher  Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-041AWC # NA1-WB-045Status Y N UEquipment ID No. 1-MS-SOV-111B Equip. Class 08BEquipment Description MS/TDAFW STEAM ADMISSION PILOTLocation: Bldg. QSPH Floor El. 256 Room, Area QSPH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-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
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Tim Knoebel



Date: 7/30/2012

Evaluated by: David DeMello



Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-042AWC # NA1-WB-034Status Y N UEquipment ID No. 1-FW-SOV-1488-2 Equip. Class 08BEquipment Description 1-FW-FCV-1488 INSTRUMENT AIR SUPPLY SOVLocation: Bldg. SB Floor El. 294 Room, Area MER #1

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-042Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Noticed overhead cable tray has no lateral support. Due to other structural members in the area, this is not a concern.
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Tim KnoebelDate: 7/25/2012Evaluated by: David De MelloDate: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-043AWC # NA1-WB-032Status Y N UEquipment ID No. 1-HV-AC-1 Equip. Class 10Equipment Description HV/CONTROL ROOM AIR CONDITIONERLocation: Bldg. SB Floor El. 276 Room, Area AC ROOM #3

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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
Equipment anchorage was verified during NAPS post-seismic walkdowns following the 08/23/2011 earthquake (Reference ETE NA-2011-0056, Revision 1).

Seismic Walkdown Checklist (SWC)

SWC # NA1-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)

*Reinforced block walls are acceptable.
Equipment anchorage verified during NAPS post-seismic walkdowns.*

Evaluated by: Glenn Gardner  Date: 7/26/2012

Evaluated by: Xuan Hoang  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-044AWC # NA1-WB-017Status Y N UEquipment ID No. 1-HV-E-4C* Equip. Class 11Equipment Description HV/CHILLER UNITLocation: Bldg. SB Floor El. 254 Room, Area CHILLER 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
Equipment anchorage was verified during NAPS post-seismic walkdowns following the 08/23/2011 earthquake (Reference ETE NA-2011-0056, Revision 1).

Seismic Walkdown Checklist (SWC)

SWC # NA1-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)

**No tag but mounted on 1-HV-E-4C-1*

Equipment anchorage verified during NAPS post-seismic walkdowns.

Evaluated by: Glenn Gardner  Date: 7/26/2012

Evaluated by: Xuan Hoang  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-046AWC # NA1-WB-028 Status Y N UEquipment ID No. 1-EP-CB-04D Equip. Class 14Equipment Description EP/120V VITAL AC 1-IV BUS (YELLOW)Location: Bldg. SB Floor El. 271 Room, Area MCR (LOGIC)

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of 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 section

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
See Comments section

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 section

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-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

Light diffusers overhead not clipped, but no essential relays and cabinet is not a soft target; therefore, acceptable. Refer to AWC #NA2-WB-030 (Question # 4).

9. Do attached lines have adequate flexibility to avoid damage? Y 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)

NOTES:

1. Equipment anchorage was verified during NAPS post-seismic walkdowns following the 08/23/2011 earthquake (Reference ETE NA-2011-0056, Revision 1).
2. Interaction effects evaluated in the field on 07/27/2012.

Evaluated by: Daniel J. Vasquez

Date: 7/27/2012

Evaluated by: Amanda McEnroe

Date: 7/27/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-048AWC # NA1-WB-019Status Y N UEquipment ID No. 1-BY-B-04 Equip. Class 15Equipment Description BY/125V BATTERY 1-IVLocation: Bldg. SB Floor El. 254 Room, Area ESGR (BATTERY ROOM 1-IV)

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware?
≤1/4" gap between baseplate and concrete at southern end Y N U N/A

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

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

5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-048Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are 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 well secured. Reference IPEEE submittal to NRC (1997) for additional information about fluorescent light evaluation (Section VII Miscellaneous Issues).
9. Do attached lines have adequate flexibility to avoid damage? Y 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
Loose plastic spacer tubes at bottom of some battery cells. Little mass; therefore, not a seismic concern. The use of tie-rods with plastic sleeves (spacer tubes) in between some batteries, instead of Styrofoam spacer, was evaluated and found acceptable per the NAPS USI A-46 submittal.

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Amanda McEnroe  Date: 7/24/2012

Evaluated by: Daniel J. Vasquez  Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-049

AWC # NA1-WB-025

Status Y N U

Equipment ID No. 1-EG-B-03C Equip. Class 15

Equipment Description AP/EDG BATTERIES AND RACKS

Location: Bldg. SB Floor El. 271 Room, Area IJ EDG 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
Front rack, southernmost spring nut off center inside bottom front unistrut. Not an immediate seismic concern. CR 482582 submitted.

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
South side of battery racks, hairline crack propagating from west wall out. The crack is greater than 5" away from the 1/2" Hilti anchors.

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.)
Consistent with SEWS, 01040.4910-NMB-001-CZ and CE-0872

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-049Interaction Effects

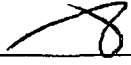
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Overhead suspended lighting above batteries judged adequate. The lights are judged to be bounded by an evaluation of rod hung fluorescent lights performed by IPEEE.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Overhead CO₂ fire protection lines appeared to be adequately supported. A seismic-fire interaction was performed as part of IPEEE and no concerns were 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
Battery spacers were less than about 2/3 of the height of the batteries (about 1/2 of the height on average). This condition was judged to be acceptable since the batteries were tight in the rack with tight-fitting spacers that are adequate to prevent the batteries from rocking and colliding during a seismic event.

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Amanda McEnroe Date: 7/23/2012Evaluated by: Daniel J. Vasquez Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-051AWC # NA1-WB-018Status Y N U Equipment ID No. 1-BY-BC-1C-II Equip. Class 16Equipment Description 125V BUS I-III AND I-IV SWING BTRY CHGR (1-BY-C-06)Location: Bldg. Service Building Floor El. 254' Room, Area U1 ESGR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-051

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures?
Fire protection line is well supported. Y N 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 lights adjacent to cabinet are rod hung, well supported— not an interaction concern. Fluorescent lights addressed in IPEEE submittal (May 1997). Reference IPEEE submittal, VII Miscellaneous Issues, #2 for fluorescent lights. Y N U N/A

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

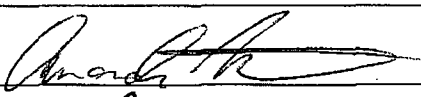
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U


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: Amanda McEnroe  Date: 7/24/2012

Evaluated by: Daniel J. Vasquez  Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-052AWC # NA1-WB-025Status Y N U Equipment ID No. 1-EE-EG-1J Equip. Class 17Equipment Description AP/EMERGENCY DIESEL GENERATOR 1JLocation: Bldg. Service Building Floor El. 271' Room, Area IJ EDG 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?
Minor dampness at northernmost bolt on west side, not a seismic concern Y N U N/A

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

5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-052Interaction Effects


7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
1. *Emergency lights overhead supported by threaded rod, previously evaluated okay on SEWS forms.*
 2. *Fire protection piping overhead supported by threaded connections. The connections appear in good condition. They have previously been evaluated by IPEEE as acceptable, and they have not been modified since those evaluations.*
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Amanda McEnroe  Date: 7/23/2012

Evaluated by: Daniel J. Vasquez  Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-053AWC # NA1-WB-011Status Y N UEquipment ID No. 1-CH-TIC-1109 Equip. Class 18Equipment Description CH/BAST B TEMPERATURELocation: Bldg. Auxiliary Building Floor El. 274' Room, Area 8,9/G,J - BASTs

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-053

Interaction Effects

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

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
Overhead light not chained but free to pivot and lacks mass to adversely affect equipment if it did fall. Y N U N/A

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

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

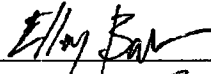
Other Adverse Conditions

- 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)

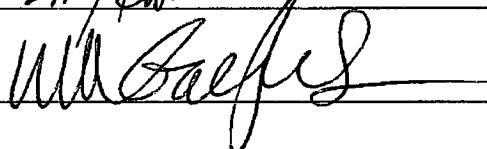
None.

Evaluated by: Ellery Baker



Date: 7/25/2012

Evaluated by: William Gallagher



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-055AWC # NA1-WB-007Status Y N UEquipment ID No. 1-RC-LIS-1312 Equip. Class 18Equipment Description RC/SEAL TABLE ISOLATORLocation: Bldg. Auxiliary Floor El. 259'-6" Room, Area UI Cable Vault
Building

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-055Interaction Effects

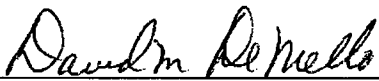
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Lights have no cages. Potential to fall during seismic event; however, there is no seismic interaction with nearby equipment.
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Tim Knoebel  Date: 7/24/2012

Evaluated by: David M. DeMello  Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-056AWC # NA1-WB-007Status Y N U Equipment ID No. 1-RC-LT-1322 Equip. Class 18Equipment Description RC/W-RANGE LEVELLocation: Bldg. Auxiliary Building Floor El. 259'-6" Room, Area U1 Cable Vault

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA1-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
Lights have no cages. Potential to fall during seismic event; however, there is no seismic interaction with equipment.

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

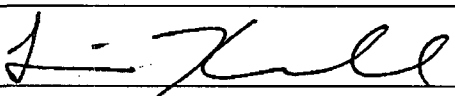
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

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: Tim Knoebel  Date: 7/24/2012

Evaluated by: David M. DeMello  Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-057AWC # NA1-WB-051Status Y N UEquipment ID No. 1-QS-LT-100A Equip. Class 18Equipment Description QS/RWST LEVELLocation: Bldg. UI Yard Floor El. 274' Room, Area RWST and Chem Add Tank

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-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
-

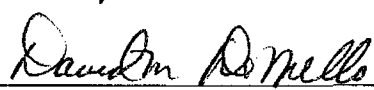
Other Adverse Conditions

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: *Tim Knoebel*  Date: 7/24/2012

Evaluated by: *David M. DeMello*  Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-058AWC # NA1-WB-046Status Y N U Equipment ID No. 1-MS-PY-101B Equip. Class 18Equipment Description MS/SG B STEAM DUMP VALVE E/P TRANSDUCERLocation: Bldg. UI QSPH Floor El. 272' Room, Area 4/GB

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-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
9. Do attached lines have adequate flexibility to avoid damage? Y 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. *Std. seismically qualified anchorage per NAS-1011.*

Evaluated by: David DeMello

David DeMello

Date: 7/30/2012

Evaluated by: Tim Knoebel

Tim Knoebel

Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-059AWC # NA1-WB-038Status Y N UEquipment ID No. 1-CN-LT-100B Equip. Class 18Equipment Description CN/CONDENSATE STORAGE TANK LEVELLocation: Bldg. U1 AFWPH Floor El. 271' Room, Area U1 AFWPH Motor Driven

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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 shown in SEWS. Anchorage matches SEWS.

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-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
Emergency lighting battery pack ID: 1-ELT-B-FW-11, Model F100, support configuration used 1/4" bolts secured with wingnuts (see Photos 1 – 3). Per Engineering Transmittal EE 95-034, Rev. 0, the overall weight of the Emergency Lighting Unit is approximately 30 lbs. The maximum capacity of the 1/4" fastener diameter connection is 581 lbs in tension. By comparison the bolts with wingnuts are acceptable.
- Area = 0.0269 in² (thread root area)*
Fy = 36 ksi
*Ft = 0.6 * Fy * Area = 581 lbs.*
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Glenn GardnerDate: 7/24/2012Evaluated by: Xuan HoangDate: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-059



Photo 1

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-059



Photo 2



Photo 3

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-060

AWC # NA1-WB-038

Status Y N U

Equipment ID No. 1-FW-PT-103B Equip. Class 18

Equipment Description FW/MDAFWP SUCTION PRESSURE

Location: Bldg. UI AFWPH Floor El. 273' Room, Area UI AFWPH Motor Driven

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

- 5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-060

Interaction Effects

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

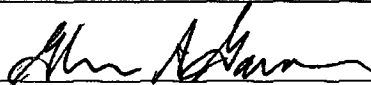
Other Adverse Conditions

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)

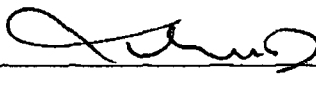
None.

Evaluated by: Glenn Gardner



Date: 7/31/2012

Evaluated by: Xuan Hoang



Date: 7/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-061AWC # NA1-WB-038Status Y N U Equipment ID No. 1-FW-FT-100B Equip. Class 18Equipment Description FW/AFWP TO SG B FLOWLocation: Bldg. UI AFWPH Floor El. 273' Room, Area UI AFWPH Motor Driven

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-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

- 9. Do attached lines have adequate flexibility to avoid damage? Y 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: Xuan Hoang  Date: 7/23/2012

Evaluated by: Glenn Gardner  Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-063

AWC # NA1-WB-014

Status Y N U

Equipment ID No. 1-CC-LT-101 Equip. Class 18

Equipment Description CC/CC SURGE TANK LEVEL

Location: Bldg. Auxiliary Building Floor El. 291' Room, Area 9/F - CC 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? 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 # NA1-WD-SWEL-063

Interaction Effects

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

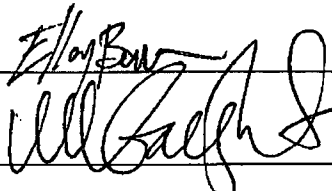
Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

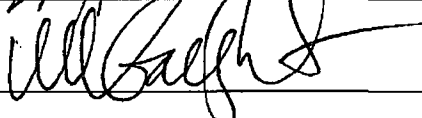
Noted inactive CC leak at inlet connection to level transmitter, submitted CR #483340.

Evaluated by: Ellery Baker



Date: 07/30/2012

Evaluated by: William Gallagher



Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-064AWC # NA1-WB-036Status Y N U Equipment ID No. 1-SW-PT-101B Equip. Class 18Equipment Description SW/SW PUMP DISCHARGE PRESSURELocation: Bldg. SWPH Floor El. 328' Room, Area SWPH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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

Consistent with USI A-46 SEWS.

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-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

Overhead suspended light bounded by evaluations previously done for IPEEE.

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

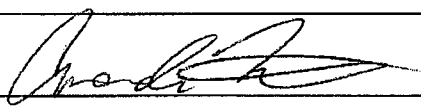
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

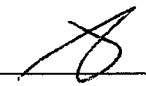
Other Adverse Conditions

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: Amanda McEnroe  Date: 7/25/2012

Evaluated by: Daniel J. Vasquez  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-065

AWC # NA1-WB-017

Status Y N U

Equipment ID No. 1-HV-FS-1215C Equip. Class 18

Equipment Description HV/CND WTR PUMP SEAL FLOW SWITCH

Location: Bldg. Service Building Floor El. 254' Room, Area U1 Chiller 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
Component mounted in line on piping as shown on SEWS.

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-065

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
1. *Overhead fluorescent lamp supported by threaded rods (2). Acceptable.*
2. *Drain piping in overhead welded and supported, acceptable.*
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Xuan Hoang



Date: 7/25/2012

Evaluated by: Glenn Gardner



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-066

AWC # NA1-WB-025

Status Y N U

Equipment ID No. 1-EG-LS-103-JB Equip. Class 18

Equipment Description EG/FUEL OIL DAY TANK LEVEL

Location: Bldg. Service Building Floor El. 271' Room, Area IJ EDG Room

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-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)

None.

Evaluated by: Glenn Gardner  Date: 7/23/2012

Evaluated by: Xuan Hoang  Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-067

AWC # NA1-WB-037

Status Y N U

Equipment ID No. 1-SW-FT-103 Equip. Class 18

Equipment Description SW/SW RETURN HEADER FLOW

Location: Bldg. SWVH Floor El. 320' Room, Area Row/Col

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-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)

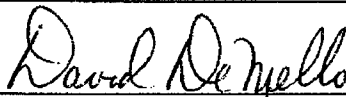
None.

Evaluated by: Tim Knoebel



Date: 8/1/2012

Evaluated by: Dave DeMello



Date: 8/1/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-068

AWC # NA1-WB-050

Status Y N U

Equipment ID No. 1-RS-LT-103B Equip. Class 18

Equipment Description RS/CASING COOLING TANK LEVEL XMTR

Location: Bldg. UI Yard Floor El. _____ Room, Area Casing Cooling Tank

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-068

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures?
In cabinet Y N U N/A

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting,
and masonry block walls not likely to collapse onto the equipment?
Located outside, no overhead equipment, tiles, etc. Y N U N/A

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

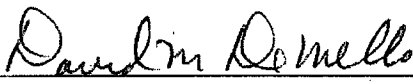
- 10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U


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: David M. DeMello  Date: 7/23/2012

Evaluated by: Tim Knoebel  Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-069AWC # NA1-WB-011Status Y N U Equipment ID No. 1-CH-FT-1114 Equip. Class 18Equipment Description PG WATER TO BORIC ACID BLENDER FLOW TRANSMITTERLocation: Bldg. Auxiliary Building Floor El. 274' Room, Area 8,9/G,J - BASTs

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
Supported satisfactorily in accordance with NAS-2016.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA1-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

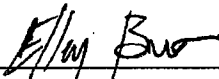
- 9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

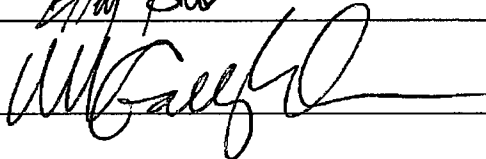
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

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)

Evaluated by: Ellery Baker  Date: 7/25/2012

Evaluated by: William Gallagher  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-071AWC # NA1-WB-001Status Y N UEquipment ID No. 1-CC-TE-100 Equip. Class 19Equipment Description CC/CCW HX OUTLET TEMPLocation: Bldg. Auxiliary Floor El. 244' Room, Area CC Pumps - 8.7-10/FGH
Building

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-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


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

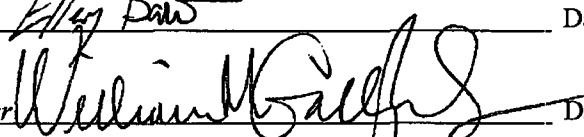
Other Adverse Conditions

- 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: Ellery Baker  Date: 7/31/2012

Evaluated by: William Gallagher  Date: 7/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-072AWC # NA1-WB-037Status Y N UEquipment ID No. 1-SW-TE-107 Equip. Class 19Equipment Description SW/SW HEADER TO VALVE HOUSE TEMPLocation: Bldg. SWVH Floor El. 321' 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 # NA1-WD-SWEL-072

Interaction Effects

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

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

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

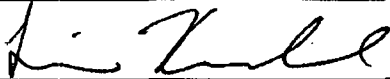
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

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: Tim Knoebel  Date: 8/1/2012

Evaluated by: David DeMello  Date: 8/1/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-075

AWC # NA1-WB-018

Status Y N U

Equipment ID No. 1-EI-CB-06B Equip. Class 20

Equipment Description EI/AUXILIARY SHUTDOWN PANEL

Location: Bldg. Service Building Floor El. 254' Room, Area U1 ESGR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-075Interaction Effects

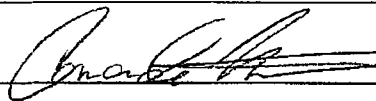
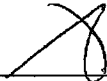
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
 1. ~1 1/4" clearance between 1-EI-CB-06B and 1-EP-CB-120, which is well supported. No seismic interaction concern.
 2. Remote computer cart behind 1-EI-CB-06B is chained to tube steel of support and wheels are locked. Computer monitor inside (to prevent tipping over). The cart may be unstable commodity, but no sensitive targets nearby.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
 1. Emergency light above cabinet could potentially fall during seismic event. No sensitive targets if light falls. Ref IPEEE submittal 1997 for additional evaluation of other fluorescent lights (Section VII Miscellaneous Issues).
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Amanda McEnroeDate: 7/24/2012Evaluated by: Daniel J. VasquezDate: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-077AWC # NA1-WB-020Status Y N UEquipment ID No. 1-EI-CB-23C Equip. Class 20Equipment Description SECONDARY PLANT PROCESS RACK CLocation: Bldg. Service Building Floor El. 254' Room, Area UI IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
2-Bay cabinet—consistent with USI A-46 SEWS. 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 # NA1-WD-SWEL-077

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures?
Tied to adjacent cabinets (welded at top) Y N 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 fluorescent lights—see Area Walkby Checklist (AWC) NAI-WB-020 for U1 Instrument Rack Room (IRR). Y N U N/A

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

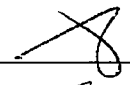
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

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: Daniel J. Vasquez  Date: 7/25/2012

Evaluated by: Amanda McEnroe  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-079AWC # NA1-WB-027Status Y N U Equipment ID No. 1-EI-CB-300 Equip. Class 20Equipment Description TSC Multiplexer CabinetLocation: Bldg. Service Building Floor El. 277' Room, Area Row/Col 8.8/D

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Structural frame anchored to steel that attaches to concrete below false floor.

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 # NA1-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
See AWC NA1-WB-028
9. Do attached lines have adequate flexibility to avoid damage? Y 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)

Conduit from 1-RC-LQ-104 (which is attached to 1-EI-CB-300 framing); cable at top exiting from hard conduit resting against conduit running across. The cable has sufficient slack to not break due to interaction with the conduit during a seismic event.

Evaluated by: Daniel J. VasquezDate: 07/31/2012Evaluated by: Amanda McEnroeDate: 07/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-080AWC # NA1-WB-020Status Y N UEquipment ID No. 1-EI-CB-47D Equip. Class 20Equipment Description EI/SOLID STATE PROTECTION LOGIC CABINET (TRAIN B)Location: Bldg. Service Building Floor El. 254' Room, Area U1 IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Two (2) hold down clips used at rear of cabinet. Acceptable based on 1-EI-CB-63B which is a similar cabinet with three (3) hold down clips.

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

4. Is the anchorage 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 # NA1-WD-SWEL-080

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Tied to adjacent cabinets.

- 8. Are 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—see Area Walkby Checklist (AWC) # NA1-WB-020.

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

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

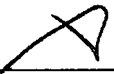
Other Adverse Conditions

- 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: Daniel J. Vasquez



Date: 7/25/2012

Evaluated by: Amanda McEnroe



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-081AWC # NA1-WB-020Status Y N UEquipment ID No. 1-EI-CB-47F Equip. Class 20Equipment Description EI/SOLID STATE PROTECTION OUTPUT CABINET (TRAIN B)Location: Bldg. Service Building Floor El. 254' Room, Area UI IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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.)
Use of hold down clips at rear of cabinet—not shown in SEWS but bounded by 1-EI-CB-63B which uses three (3) hold down clips and is of similar design; therefore, acceptable.

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-081

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Tied to adjacent cabinets.
8. Are 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—see Area Walkby Checklist (AWC) # NA1-WB-020.
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Daniel J. Vasquez  Date: 7/25/2012

Evaluated by: Amanda McEnroe  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-082AWC # NA1-WB-020Status Y N U Equipment ID No. 1-EI-CB-64B Equip. Class 20Equipment Description EI/SOLID STATE PROT SYS AUX RELAY RACKLocation: Bldg. Service Building Floor El. 254' Room, Area UI IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 USI A-46 SEWS. 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 # NA1-WD-SWEL-082

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures?
Tied to adjacent cabinets. Y N 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 lights—see Area Walkby Checklist (AWC) # NA1-WB-020. Y N U N/A

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

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

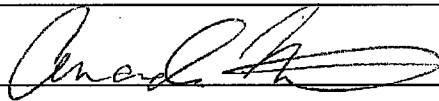
Other Adverse Conditions

- 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: Amanda McEnroe



Date: 7/25/2012

Evaluated by: Daniel J. Vasquez



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-084AWC # NA1-WB-020Status Y N UEquipment ID No. 1-EP-CB-28B Equip. Class 20Equipment Description EP/AUXILIARY RELAY RACK BLocation: Bldg. Service Building Floor El. 254' Room, Area U1 IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 USI A-46 SEWS. 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 # NA1-WD-SWEL-084

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
 - *Stored I&C equipment adjacent to 1-EP-CB-28B, secured in accordance with VPAP-0312 to prevent interaction.*
 - *1-EP-CB-28B is tied to adjacent cabinets.*

- 8. Are 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—see Area Walk-by Checklist (AWC) NA1-WB-020

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

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

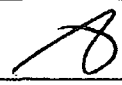
Other Adverse Conditions

- 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)

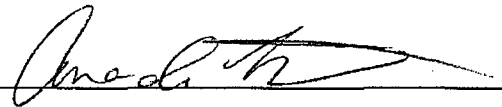
None.

Evaluated by: Daniel J. Vasquez



Date: 7/25/2012

Evaluated by: Amanda McEnroe



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-085AWC # NA1-WB-020Status Y N UEquipment ID No. 1-EI-CB-63B Equip. Class 20Equipment Description EP/LOOP STOP VALVE LOGIC CABINET RACK BLocation: Bldg. Service Building Floor El. 254' Room, Area UI IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Three (3) hold down clips used—consistent with USI A-46 SEWS.

3. Is the anchorage free of corrosion that is more than mild surface oxidation? 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 crack at bottom of cable trough; not a seismic concern. CR 482873 submitted to document crack.

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 # NA1-WD-SWEL-085Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Tied to adjacent cabinets.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Fluorescent lighting—see Area Walkby Checklist (AWC) # NA1-WB-020.
9. Do attached lines have adequate flexibility to avoid damage? Y 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
Front door vertical latching bars missing. CR 482859 submitted to document the identified condition and create a work order to repair the door. The CR also documents that the door as-found condition will remain functional during and after a seismic event.

Comments (Additional pages may be added as necessary)*None.*Evaluated by: Daniel J. VasquezDate: 7/25/2012Evaluated by: Amanda McEnroeDate: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-090AWC # NA1-WB-020Status Y N UEquipment ID No. 1-EP-CB-219 Equip. Class 20Equipment Description SERVICE WATER AUX RELAY PANELLocation: Bldg. Service Building Floor El. 254' Room, Area UI IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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.)
Installed per DCP 02-175. Installation consistent with NAS-2016, Detail JB-1.

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-090

Interaction Effects

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

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Fluorescent lighting—see Area Walkby Checklist (AWC) # NA1-WB-020

- 9. Do attached lines have adequate flexibility to avoid damage? Y 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: Daniel J. Vasquez

Date: 7/25/2012

Evaluated by: Amanda McEnroe

Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-091AWC # NA1-WB-011Status Y N UEquipment ID No. 1-CH-TK-1B Equip. Class 21Equipment Description CH/BORIC ACID STORAGE TANK B (BAST)Location: Bldg. Auxiliary Building Floor El. 274' Room, Area 8,9/G,J - BASTs

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage 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 # NAI-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)

Evaluated by: David DeMello

David DeMello

Date: 7/27/2012

Evaluated by: William Gallagher

William Gallagher

Date: 7/27/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-093

AWC # NA1-WB-001

Status Y N U

Equipment ID No. 1-CC-E-1B Equip. Class 21

Equipment Description CC/COMPONENT COOLING WATER HX

Location: Bldg. Auxiliary Building Floor El. 244" Room, Area CC Pumps - 8.7-10/FGH

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
Noted additional unused holes for structural connection alignment/options.

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

4. Is the anchorage 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 # NA1-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

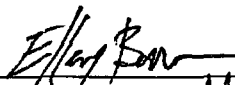
Other Adverse Conditions

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)

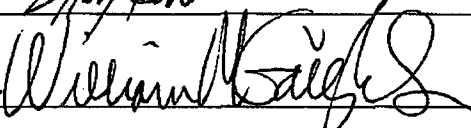
None.

Evaluated by: *Ellery Baker*



Date: 07/31/2012

Evaluated by: *William Gallagher*



Date: 07/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-094AWC # NA1-WB-014Status Y N U Equipment ID No. 1-CC-TK-1 Equip. Class 21Equipment Description CC/CC SURGE TANKLocation: Bldg. Auxiliary Building Floor El. 291' Room, Area 9/F - CC 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 station dwg. 11715-FC-24CL 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 # NA1-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

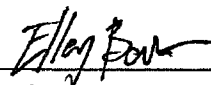
Other Adverse Conditions

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)

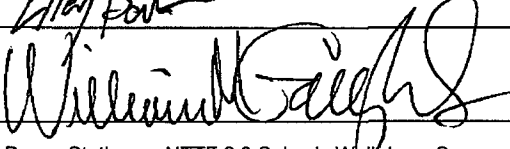
None

Evaluated by: Ellery Baker



Date: 07/31/2012

Evaluated by: William Gallagher



Date: 07/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-095AWC # NA1-WB-017Status Y N UEquipment ID No. 1-HV-TK-6B Equip. Class 21Equipment Description HV/CHILLED WATER EXPANSION TANKLocation: Bldg. Service Building Floor El. 254' Room, Area UI Chiller 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 # NA1-WD-SWEL-095Interaction Effects

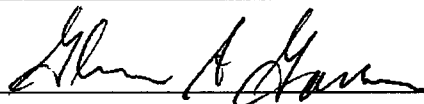
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
*Vertical drain pipe located 18" from the tank. Pipe is welded.
 Supported by floor and ceiling embedment.*
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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: Xuan HoangDate: 7/25/2012Evaluated by: Glenn GardnerDate: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-096AWC # NA1-WB-025Status Y N U Equipment ID No. 1-EG-TK-1J Equip. Class 21Equipment Description EG/FUEL OIL DAY TANKLocation: Bldg. Service Building Floor El. 271' Room, Area 1J EDG 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

4 -1" diameter embedded J bolts per 11715-FC-6N-7
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Seismic Walkdown Checklist (SWC)

SWC # NA1-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

Comments (Additional pages may be added as necessary)*None.*

Evaluated by: Xuan Hoang  Date: 7/23/2012

Evaluated by: Glenn Gardner  Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-097AWC # NA1-WB-025Status Y N U Equipment ID No. 1-EG-TK-1JB Equip. Class 21Equipment Description EG/AIR COMPRESSOR AIR RECEIVERLocation: Bldg. Service Building Floor El. 271' Room, Area IJ EDG 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.)

One (1) out of 4 bolts did not have lock weld (stud to nut—see Photo 1). Dwg 11715-FC-6N-7 does not specify this as a requirement. Lock welding is an acceptable practice that does not affect seismic capability.

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-097

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

Interaction Effects

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

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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
CO₂ fire suppression line is threaded piping and located above equipment. About one support for each length of pipe. Evaluation of this condition is addressed in component package NA1-WD-SWEL-049.

Comments (Additional pages may be added as necessary)

None

Evaluated by: Glenn Gardner  Date: 7/23/2012

Evaluated by: Xuan Hoang  Date: 7/23/2012

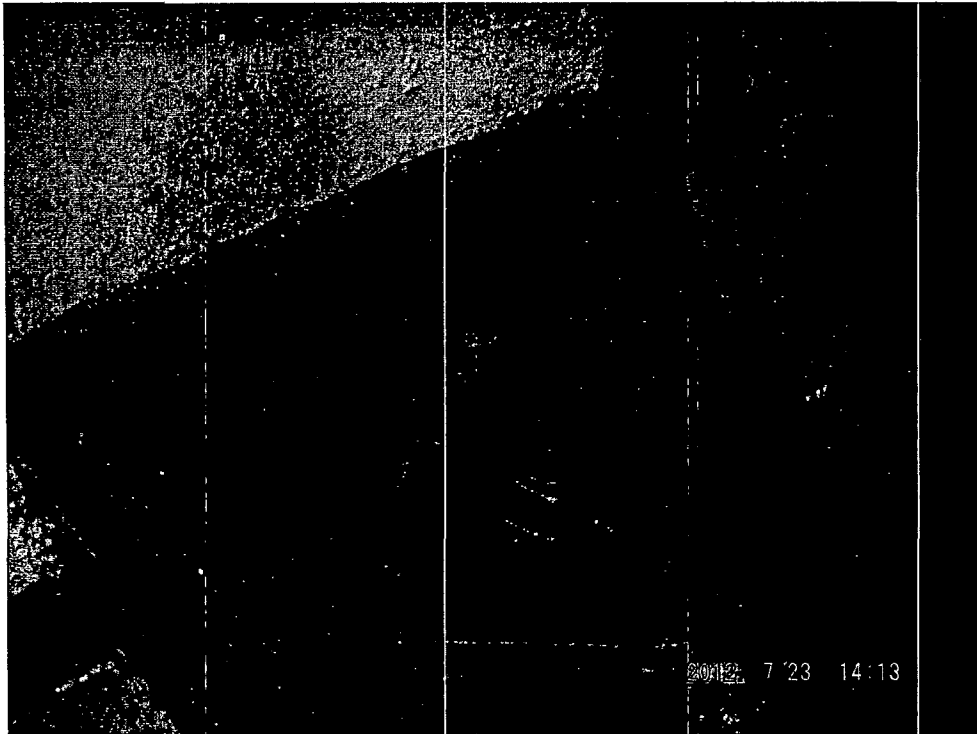


Photo 1

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-099

AWC # NA1-WB-051

Status Y N U

Equipment ID No. 1-QS-TK-2 Equip. Class 21

Equipment Description QS/REFUELING WATER CHEM ADD TANK

Location: Bldg. UI Yard Floor El. _____ Room, Area RWST and Chem Add Tank

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-099Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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: Tim KnoebelDate: 7/24/2012Evaluated by: David M. DeMelloDate: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-100AWC # NA1-WB-047Status Y N U Equipment ID No. 1-RS-E-2B Equip. Class 21Equipment Description RS/OUTSIDE RECIRC SPRAY PUMP B SEAL HXLocation: Bldg. UI Floor El. _____ Room, Area "B" Outside RS Pump Cubicle
Safeguards

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage 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 # NA1-WD-SWEL-100Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment?
HVAC duct well supported. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
The coil support has only 1/8" clearance to the west cube wall at the nearest point.

Other Adverse Conditions

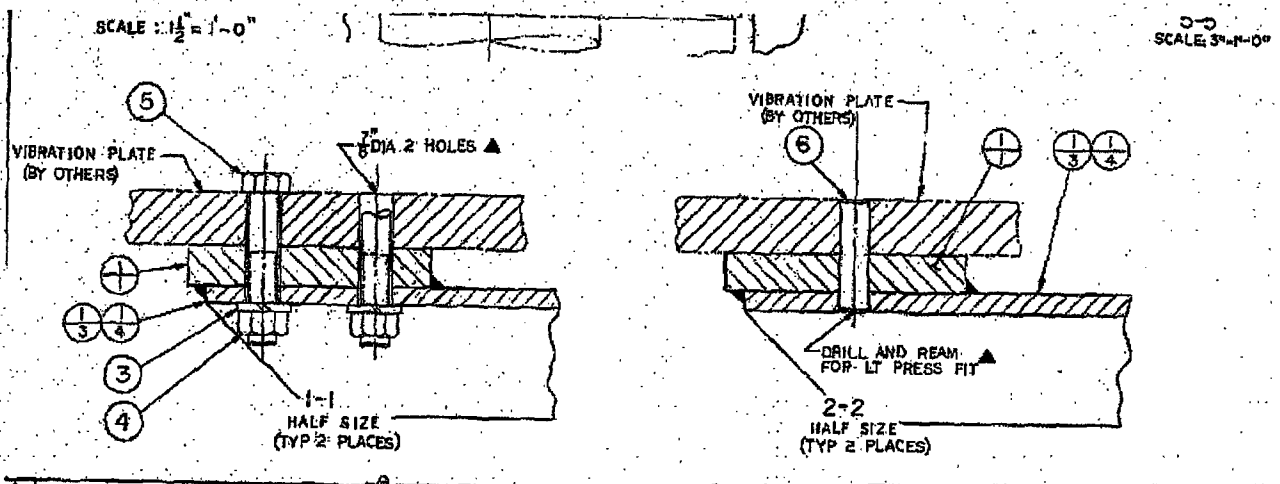
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

Comments (Additional pages may be added as necessary)

The pump and Reactor Containment will not have differential movement (see attached). Therefore, no interaction concerns with Question #10 above.

Evaluated by: Ellery BakerDate: 7/24/2012Evaluated by: William GallagherDate: 7/24/2012

Seismic Walkdown Checklist (SWC)



Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-101AWC # NA1-WB-015Status Y N UEquipment ID No. 1-FC-P-1B Equip. Class 05Equipment Description 1B SPENT FUEL PIT COOLING PUMPLocation: Bldg. FB Floor El. 249 Room, Area FUEL BUILDING (7.5/O)

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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

11715-FC-27G
11715-FC-27E
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

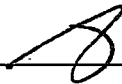
Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-101Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage?
Analyzed piping attached to pump. Y 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: Daniel J. VasquezDate: 7/24/2012Evaluated by: Amanda McEnroeDate: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-102AWC # NA1-WB-001Status Y N UEquipment ID No. 1-SW-MOV-113B Equip. Class 08AEquipment Description SW/CCW FUEL PIT COOLERS ISOLLocation: Bldg. AB Floor El. 244 Room, Area AUXILIARY BUILDING 8.7/F

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA1-WD-SWEL-102

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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)

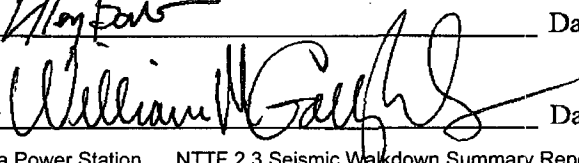
None

Evaluated by: *Ellery Baker*



Date: 07/30/2012

Evaluated by: *William Gallagher*



Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-103

AWC # NA1-WB-015

Status Y N U

Equipment ID No. 1-FC-PI-100B Equip. Class 18

Equipment Description 1B SPENT FUEL PIT COOLING PP DISCH HDR PRESS INDR

Location: Bldg. FB Floor El. 249 Room, Area FUEL BUILDING (7.5/Q)

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
- 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
- 4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Superficial cracks (in paint/coating on the floor), not structural, not near anchor locations—judged to be acceptable.
- 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 # NA1-WD-SWEL-103

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are 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 lights—okay, as judged by SWEs.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

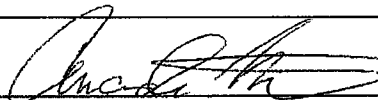
Other Adverse Conditions

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)

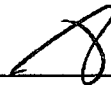
None.

Evaluated by: Amanda McEnroe



Date: 7/24/2012

Evaluated by: Daniel J. Vasquez



Date: 7/24/2012

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-104AWC # NA1-WB-015Status Y N UEquipment ID No. 1-FC-E-1B Equip. Class 21Equipment Description 1B SPENT FUEL PIT COOLERLocation: Bldg. FB Floor El. 249 Room, Area FUEL BUILDING (7.5/O)

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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

11515-FC-27 series

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

Seismic Walkdown Checklist (SWC)

SWC # NA1-WD-SWEL-104

Interaction Effects

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

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Class II block wall shown on FC-27 series—acceptable.

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


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

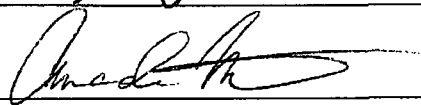
Other Adverse Conditions

- 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: Daniel J. Vasquez  Date: 7/24/2012

Evaluated by: Amanda McEnroe  Date: 7/24/2012

Appendix D

Unit 2 Seismic Walkdown Checklists

(174 pages)

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-001AWC # NA2-WB-026Status Y N U Equipment ID No. 2-HV-SAD-2H Equip. Class 0
2HV-LV-200 (see
Comments Item #3)Equipment Description HV/DG Room 2H Supply Air Damper (From U1 SSEL)Location: Bldg. SB Floor El. 272' Room, Area 2H-EDG, 14/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
Corroded lower sill plate. Identified on NWR-23711. Acceptable. CR 437775 dated 8/12/2011.

4. Is the anchorage 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.)

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-001

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

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are 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 heating unit suspended by four (4) 1/2" threaded rods. Acceptable.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
No attached lines.
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 below.

Comments (Additional pages may be added as necessary)

1. "Counterweights" loose (some). One missing. Already identified on NWR237111. CR 434569 dated 7/16/20122.
2. Calculation CZC-202 addresses qualification of damper.
3. Equipment ID for this SEWL is 2-HV-SAD-2H but equipment is labeled in field as 2-HV-LV-200 and is so noted on Dwg. 11715-FB-24L, Rev. 16.

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-001

Evaluated by: Glenn Gardner



Date: 7/30/2012

Evaluated by: Xuan Hoang



Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-002

AWC # NA2-WB-054

Status Y N U

Equipment ID No. 2-RS-S-A1 Equip. Class 0

Equipment Description Recirc Spray Pump Strainer Module #A-1

Location: Bldg. CTMT Floor El. 216' 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 # NA2-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)

Evaluated by: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-003AWC # NA2-WB-054Status Y N U Equipment ID No. 2-RS-S-A2 Equip. Class 0Equipment Description LHSI Pump Strainer Module #A-2Location: Bldg. CTMT Floor El. 216' 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 # NA2-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)

Evaluated by: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-007AWC # NA2-WB-013Status Y N UEquipment ID No. 2-EP-BKR-RTA Equip. Class 02Equipment Description CR*/Reactor Trip Breaker ALocation: Bldg. AB Floor El. 280' Room, Area Rod Drive Room, H12

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of 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 comment.

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

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

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 comment.

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Equipment anchorage was verified during NAPS post-seismic walkdowns following the 08/23/2011 earthquake (Reference ETE NA-2011-0056, Revision 1).

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-007

Interaction Effects

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Equipment anchorage verified during NAPS post-seismic walkdowns.

Evaluated by: Ellery Baker  Date: 7/26/2012

Evaluated by: William Gallagher  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-011AWC # NA2-WB-022Status Y N UEquipment ID No. 2-EE-ST-2J Equip. Class 04Equipment Description EE/4160/480 Transformer 2JLocation: Bldg. SB Floor El. 252' Room, Area Row/Col 8/D

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of 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.

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-011

JB 7/30/12

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

NOTE: Transformers 2-EE-ST-2J and 2-EE-ST-2J1 were replaced per DC NA-10-00146. A post-installation SQUG walkdown was performed on 9/22/2011 by Ellery Baker and Joe Vasquez. Refer to Calculation CE-1394, Rev. 0, Add. 00A (in-progress). The SQUG walkdown performed exceeds the requirements of anchorage inspections per this procedure.

*- EJB 7/31/12
DSV 7/31/12*

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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: Ellery Baker

Date: 7/26/2012

Evaluated by: William Gallagher

Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-012AWC # NA2-WB-013Status Y N UEquipment ID No. 2-EE-ST-2J1 Equip. Class 04Equipment Description EE/4160/480 Transformer 2J1Location: Bldg. AB Floor El. 280' Room, Area Row/Col 9/D

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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 Item 6 note and comments.
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
See Item 6 note and comments.
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
See Item 6 note and comments.
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
See Item 6 note and 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 Item 6 note and comments.

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-012

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

NOTE: Transformers 2-EE-ST-2J and 2-EE-ST-2JI were replaced per DC NA-10-00146. A post-installation SQUG walkdown was performed on 9/22/2011 by Ellery Baker and Joe Vasquez. Refer to Calculation CE-1394, Rev. 0, Add. 00A (in-progress). The SQUG walkdown performed exceeds the requirements of anchorage inspections per this procedure.

-EJB 8/11/12 8/1/12 JB
DJV 8/1/12

Interaction Effects

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

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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

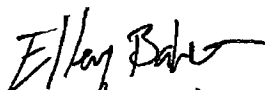
Comments (Additional pages may be added as necessary)

Multiple cover panel attachment screws appear to be either bent, cross-threaded, or installed at an angle. Found to be acceptable (attachment of panel is secure).

Seismic Walkdown Checklist (SWC)

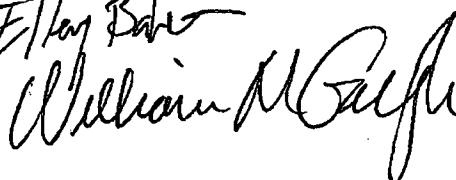
SWC # NA2-WD-SWEL-012

Evaluated by: Ellery Baker



Date: 7/26/2012

Evaluated by: William Gallagher



Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-013AWC # NA2-WB-008Status Y N UEquipment ID No. 2-CH-P-1A Equip. Class 05Equipment Description CH/CENTRIFUGAL Charging Pump A (CCP A)Location: Bldg. AB Floor El. 244' Room, Area Charging Pump Cubicle, 9/J

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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 # NA2-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
Lights are not chained but are free to pivot—not a seismic concern.

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

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

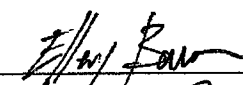
Other Adverse Conditions

- 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)

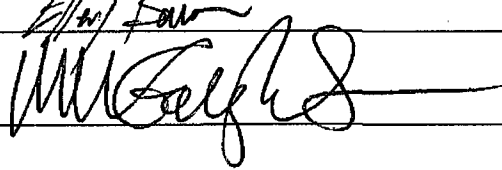
None.

Evaluated by: Ellery Baker



Date: 7/25/2012

Evaluated by: William Gallagher



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-014AWC # NA2-WB-053Status Y N UEquipment ID No. 2-FW-P-2 Equip. Class 05Equipment Description FW/Turbine-Driven Auxiliary Feedwater Pump (TDAFWP)Location: Bldg. AFWPH Floor El. 271' Room, Area Turbine Driven

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
Critical dimensions are consistent. 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 # NA2-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
-

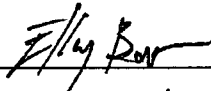
Other Adverse Conditions

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)

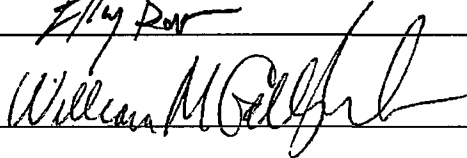
None.

Evaluated by: Ellery Baker



Date: 7/23/2012

Evaluated by: William Gallagher, Sr.



Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-015AWC # NA1-WB-001 Status Y N UEquipment ID No. 2-CC-P-1A Equip. Class 05Equipment Description CC/Component Cooling Water PumpLocation: Bldg. AB Floor El. 245' Room, Area 9/H

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of 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 Comment section

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
See Comment section

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 Comment section

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Equipment anchorage was verified during NAPS post-seismic walkdowns following the 08/23/2011 earthquake (Reference ETE NA-2011-0056, Revision 1).

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-015

Interaction Effects

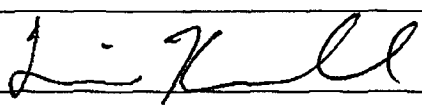
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y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

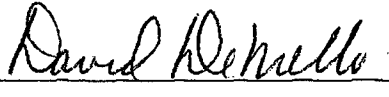
Other Adverse Conditions

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)

Equipment anchorage verified during NAPS post-seismic walkdowns.

Evaluated by: Tim Knoebel  Date: 07/30/2012

Evaluated by: David DeMello  Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-016

AWC # NA2-WB-016

Status Y N U

Equipment ID No. 2-EG-P-2HA Equip. Class 05

Equipment Description EG/EDG 2 H LEAD FO TRANSFER PUMP

Location: Bldg. FOPH Floor El. 270' 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 # NA2-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
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: David DeMello *David DeMello* Date: 7/30/2012

Evaluated by: Tim Knoebel *Tim Knoebel* Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-017

AWC # NA2-WB-061

Status Y N U

Equipment ID No. 2-QS-P-1A Equip. Class 05

Equipment Description QS/QS Pump A

Location: Bldg. QSPH Floor El. 272' 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 # NA2-WD-SWEL-017

Interaction Effects

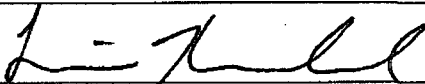
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y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

Ref. Dwg: 12050-FC-19B, 11715-2.20-2B

Evaluated by: Tim Knoebel  Date: 7/26/2012

Evaluated by: David Demello  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-018AWC # NA2-WB-036Status Y N UEquipment ID No. 2-SW-P-1A Equip. Class 06Equipment Description SW/Service Water Pump A (From UI SSEL)Location: Bldg. SWPH Floor El. 328' 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

The 4- 1 1/4" bolts were all adequate→A deviation from the design anchor bolt configuration that was referenced in the USI A-46 SEWS was resolved.

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

Coated and painted.

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

No cracks in visible concrete.

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.)

Consistent with USI A-46 SEWS.

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-018

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

Interaction Effects

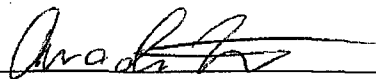

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Amanda McEnroeDate: 8/1/2012Evaluated by: Daniel J. VasquezDate: 8/1/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-019

AWC # NA2-WB-021

Status Y N U

Equipment ID No. 2-HV-P-20A Equip. Class 06

Equipment Description HV/CHILLED Water Pump

Location: Bldg. SB Floor El. 254' Room, Area Chiller 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 pump anchorage per SEWS.

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

Seismic Walkdown Checklist (SWC)

SWC # NA2-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: Glenn Gardner  Date: 7/25/2012

Evaluated by: Xuan Hoang  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-020AWC # NA2-WB-063Status Y N U Equipment ID No. 2-SI-P-1A Equip. Class 06Equipment Description SI/LHSI Pump ALocation: Bldg. SFGD Floor El. 255' Room, Area Chiller RoomManufacturer, Model, Etc. (optional but recommended) Igersoll-Rand**Instructions for Completing Checklist**

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors?
Lower anchors of strut baseplates installed on construction cold joint (surface cracking)—acceptable. Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-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)

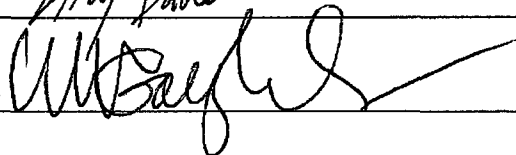
Adjacent duct flange is bent. Not a concern.

Evaluated by: Ellery Baker



Date: 7/25/2012

Evaluated by: William Gallagher



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-021

AWC # NA2-WB-062

Status Y N U

Equipment ID No. 2-RS-P-2A Equip. Class 06

Equipment Description RS/Outside Recirc Spray Pump A

Location: Bldg. SFGD Floor El. 256' Room, Area Row/Col 3.5/JK

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
- 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
- 4. Is the anchorage 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 # NA2-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)

None.

Evaluated by: ELLERY BAKER [Signature] Date: 7/25/2012

Evaluated by: W.M. GALLAGHER, Sr. [Signature] Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-022AWC # NA2-WB-057Status Y N U Equipment ID No. 2-RC-PVC-2455C Equip. Class 07Equipment Description RC/PRZR PORVLocation: Bldg. CTMT Floor El. 308' Room, Area Row/Col 5

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-022

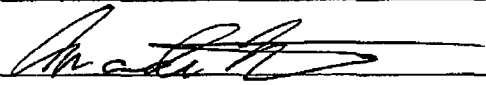
Interaction Effects

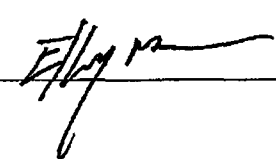
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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
Minor interaction with 2-RC-SOV-2455C-1, not a concern.

Comments (Additional pages may be added as necessary)

Evaluated by: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-023AWC # NA2-WB-059Status Y N U Equipment ID No. 2-MS-TV-201A Equip. Class 07Equipment Description MS/SG A MSIVLocation: Bldg. MSVH Floor El. 282' Room, Area Row/Col 5.5/GB

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-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)

None.

Evaluated by: David DeMello *David DeMello* Date: 7/26/2012

Evaluated by: Tim Knoebel *Tim Knoebel* Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-024AWC # NA2-WB-058Status Y N UEquipment ID No. 2-MS-TV-211A Equip. Class 07Equipment Description MS/TDAFW Steam AdmissionLocation: Bldg. MSVH Floor El. 272' Room, Area Row/Col 13.3/GA

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-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: Tim Knoebel  Date: 7/26/2012

Evaluated by: David DeMello  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-025

AWC # NA2-WB-052

Status Y N U

Equipment ID No. 2-FW-PCV-259A Equip. Class 07

Equipment Description FW/AFP to SG B Control Valve

Location: Bldg. AFWPH Floor El. 271' Room, Area Motor Driven

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
- 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
- 4. Is the anchorage 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 # NA2-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: Tim Knoebel



Date: 7/27/2012

Evaluated by: William Gallagher



Date: 7/27/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-026AWC # NA2-WB-035Status Y N UEquipment ID No. 2-FW-FCV-2479 Equip. Class 07Equipment Description A Main Feed REG Bypass ValveLocation: Bldg. SB Floor El. 286' Room, Area MER 2, 12/D

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-026

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures?
Duct work is close. Due to piping and column, do not feel this is an issue. Y N U N/A

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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: Tim Knoebel  Date: 7/25/2012

Evaluated by: David DeMello  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-027

AWC # NA2-WB-058

Status Y N U

Equipment ID No. 2-MS-TV-210 Equip. Class 07

Equipment Description MS/SG Blowdown CONTMT ISOL

Location: Bldg. MSVH Floor El. 272' Room, Area MER 2, 12/D

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-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)

None.

Evaluated by: Tim Knoebel  Date: 7/26/2012

Evaluated by: David DeMello  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-028AWC # NA2-WB-003Status Y N U Equipment ID No. 2-BD-TV-200A Equip. Class 07Equipment Description BD/SG IC BlowDown CONTMT ISOLLocation: Bldg. AB Floor El. 244' Room, Area Pen. Area 12/J

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-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: *David DeMello* David DeMello Date: 7/25/2012

Evaluated by: *Tim Knoebel* Tim Knoebel Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-029AWC # NA2-WB-003Status Y N U Equipment ID No. 2-CV-TV-250A Equip. Class 07Equipment Description CV/ATMOS Cleanup CONTMT ISOLLocation: Bldg. AB Floor El. 244' Room, Area Pen. Area 12/J

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-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)

None.

Evaluated by: Tim Knoebel



Date: 7/25/2012

Evaluated by: David De Mello



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)SWC # NA2-WD-SWEL-030AWC # NA2-WB-003Status Y N U Equipment ID No. 2-CC-TV-202A Equip. Class 07Equipment Description CC/RCP CC Return CONTMT ISOLLocation: Bldg. AB Floor El. 244' Room, Area Pen. Area 11.3/K

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-030

Interaction Effects

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Tim Knoebel  Date: 7/25/2012

Evaluated by: David DeMello  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-031

AWC # NA2-WB-003

Status Y N U

Equipment ID No. 2-IA-TV-202A Equip. Class 07

Equipment Description IA/INSTR AIR HEADER CONTMT ISOL

Location: Bldg. AB Floor El. 244' Room, Area Pen. Area 11/J

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-031

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures?
Cantilevered supports for tubing above valve are sagging (see attached photo), determined not to be a seismic concern. Y N U N/A

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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)

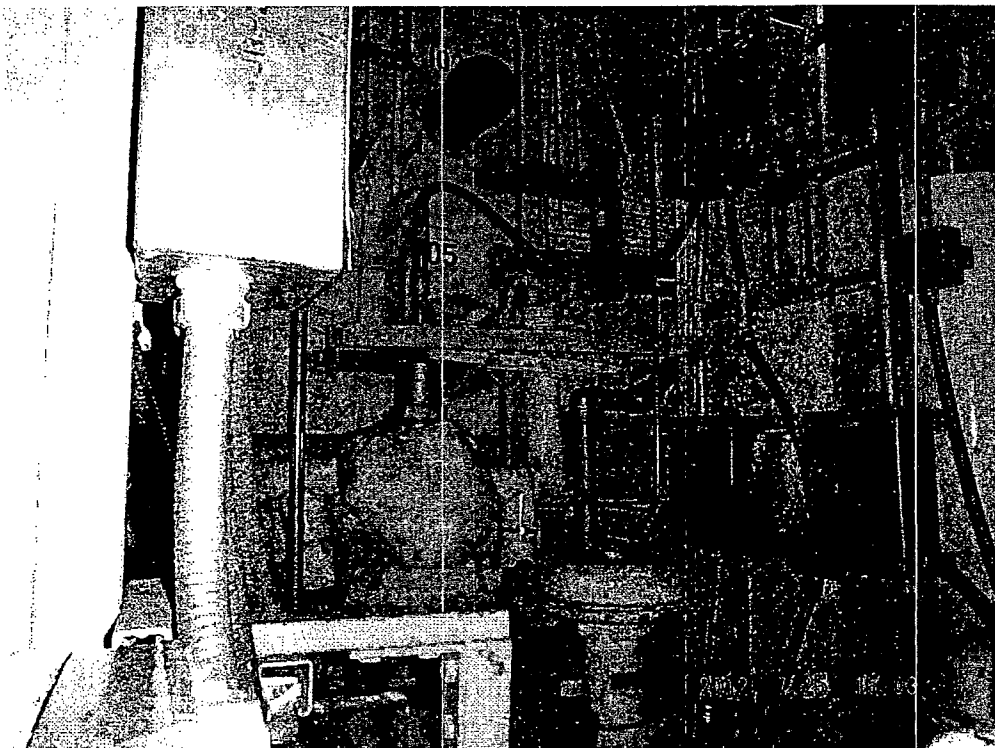
None.

Evaluated by: *David DeMello* David DeMello Date: 7/25/2012

Evaluated by: *Tim Knoebel* Tim Knoebel Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-031



Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-032

AWC # NA2-WB-008

Status Y N U

Equipment ID No. 2-CH-MOV-2267A Equip. Class 08

Equipment Description CH/CHARGING PUMP A INLET ISOL

Location: Bldg. AB Floor El. 244' Room, Area "A" Charging Pump Cubicle

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
- 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
- 4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
- 5. Is the anchorage configuration consistent with plant documentation? (Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y N U N/A
- 6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-032

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Noted loose straps on permanent shielding over valve—should be corrected. Not a seismic concern. CR 482856 was written.

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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

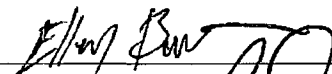
Other Adverse Conditions

- 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: Ellery Baker



Date: 7/25/2012

Evaluated by: William Gallagher



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-033AWC # NA2-WB-057Status Y N U Equipment ID No. 2-RC-MOV-2535 Equip. Class 08AEquipment Description RC/PRZR PORV Block ValveLocation: Bldg. CTMT Floor El. 308' Room, Area 5.1

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-033

Interaction Effects

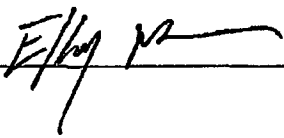
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

Evaluated by: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-034AWC # NA2-WB-003Status Y N UEquipment ID No. 2-CH-MOV-2115D Equip. Class 08AEquipment Description CH/RWST To CCP Inlet ISOLLocation: Bldg. AB Floor El. 244' Room, Area Pen. Area 10.6/J

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-034

Interaction Effects


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


Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Tim Knoebel  Date: 7/25/2012

Evaluated by: David DeMello  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-035AWC # NA2-WB-052Status Y N UEquipment ID No. 2-FW-MOV-200A Equip. Class 08AEquipment Description FW/AFWP Header To SG ALocation: Bldg. AFWPH Floor El. 275' Room, Area Motor Driven

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-035

Interaction Effects

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

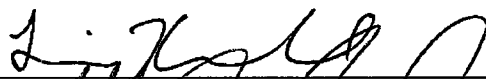
Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

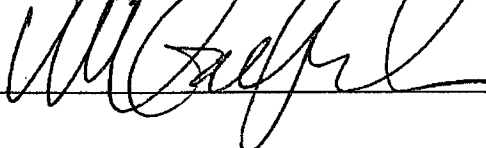
None.

Evaluated by: Tim Knoebel



Date: 7/27/2012

Evaluated by: William Gallagher



Date: 7/27/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-036AWC # NA2-WB-054Status Y N U Equipment ID No. 2-RH-MOV-2720B Equip. Class 08AEquipment Description RH/RHR Return ISOL Loop 3Location: Bldg. CTMT Floor El. 216' Room, Area Row/Col 4

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-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

Comments (Additional pages may be added as necessary)

Evaluated by: Amanda McEnroe  Date: 10/11/12

Evaluated by: Tim Knoebel  Date: 10/11/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-037AWC # NA2-WB-054Status Y N UEquipment ID No. 2-SI-MOV-2865B Equip. Class 08AEquipment Description SI/ACCUM Outlet ISOLLocation: Bldg. CTMT Floor El. 216' Room, Area Row/Col 14,8/6.3/9.0

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Support immediately adjacent to MOV on associated SI line is SAT.

Seismic Walkdown Checklist (SWC)

SWC # NA2-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?
Sturdy personnel platform, no concern for collapse on to MOV. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-038

AWC # NA1-WB-037

Status Y N U

Equipment ID No. 2-SW-MOV-223A Equip. Class 08A

Equipment Description SW/SW Reservoir ISOL (From U1 SSEL)

Location: Bldg. SWVH 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? 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 # NA2-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)

None.

Evaluated by: David DeMello *David DeMello* Date: 8/1/2012

Evaluated by: Tim Knoebel *Tim Knoebel* Date: 8/1/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-039AWC # NA1-WB-001Status Y N U Equipment ID No. 2-SW-MOV-208A Equip. Class 08AEquipment Description SW/CC HX Inlet ISOL (From UI SSEL)Location: Bldg. AB Floor El. 244' Room, Area 9.3/G

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-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
9. Do attached lines have adequate flexibility to avoid damage? Y 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: David DeMello

David DeMello

Date: 07/30/2012

Evaluated by: Tim Knoebel

Tim Knoebel

Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-040

AWC # NA2-WB-060

Status Y N U

Equipment ID No. 2-SW-MOV-204A Equip. Class 08A

Equipment Description SW/RECIRC Spray Cooler A DISCH ISOL

Location: Bldg. QSPH Floor El. 256' 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 # NA2-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: Tim Knoebel  Date: 7/26/2012

Evaluated by: David DeMello  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-041AWC # NA2-WB-057Status Y N U Equipment ID No. 2-RC-SOV-2456-1 Equip. Class 08BEquipment Description GN/PZR PORV PILOTLocation: Bldg. CTMT Floor El. 308' Room, Area Row/Col 5.1

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-041

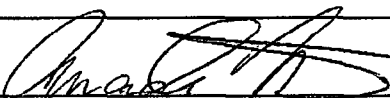
Interaction Effects

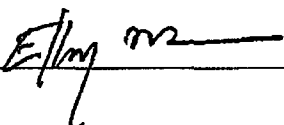
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Previously evaluated by SEWS to be okay interaction with 2-RCV-SOV-2456-2, has been enhanced since original IPEEE walkdowns (DCP 94-012).
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-042AWC # NA2-WB-060Status Y N UEquipment ID No. 2-MS-SOV-211A Equip. Class 08BEquipment Description MS/TDAFW Steam Admission PilotLocation: Bldg. QSPH Floor El. 256' Room, Area Row/Col 12.8/G

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-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)

None.

Evaluated by: Tim Knoebel



Date: 7/26/2012

Evaluated by: David DeMello



Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-043

AWC # NA1-WB-035

Status Y N U

Equipment ID No. 2-FW-SOV-2479-1 Equip. Class 08B

Equipment Description SOLENOID OPERATED VALVE

Location: Bldg. SB Floor El. 286' Room, Area MER2, 12/D

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
- 2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
- 3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
- 4. Is the anchorage 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 # NA2-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)

One (1) washer missing. Evaluated this as acceptable.

Evaluated by: *Tim Knoebel*



Date: 7/25/2012

Evaluated by: *David De Mello*



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-044AWC # NA2-WB-033Status Y N UEquipment ID No. 2-HV-AC-8 Equip. Class 10Equipment Description HV/Control Room Air ConditionerLocation: Bldg. SB Floor El. 276' Room, Area AC Room # 4, Row/Col 10/D

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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? *Equipment anchorage was verified during NAPS post-seismic walkdowns following the 08/23/2011 earthquake (Reference ETE NA-2011-0056, Revision 1).* Y N U

Seismic Walkdown Checklist (SWC)

SWC # NA2-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)

*Reinforced block wall is acceptable.
Equipment anchorage verified during NAPS post-seismic walkdowns.*

Evaluated by: Glenn Gardner  Date: 7/26/2012

Evaluated by: Xuan Hoang  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-045

AWC # NA2-WB-021

Status Y N U

Equipment ID No. 2-HV-E-4A Equip. Class 11

Equipment Description HV/CHILLER Unit

Location: Bldg. SB Floor El. 254' Room, Area Chiller Room # 1

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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? *Equipment anchorage was verified during NAPS post-seismic walkdowns following the 08/23/2011 earthquake (Reference ETE NA-2011-0056, Revision 1).* Y N U

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-045

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Overhead drain pipe, see Seismic Walkby Package NA2-WB-021.

- 8. Are 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 attached to unistrut. Unistrut supported by 2 clamps attached to angle frame. Acceptable.

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

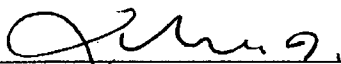
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

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)

Equipment anchorage verified during NAPS post-seismic walkdowns

Evaluated by: Xuan Hoang  Date: 7/26/2012

Evaluated by: Glenn Gardner  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-048

AWC # NA2-WB-030

Status Y N U

Equipment ID No. 2-EP-CB-04A Equip. Class 14

Equipment Description EP/120V Vital AC 2-I BUS (RED & ORANGE)

Location: Bldg. SB Floor El. 276'-9" Room, Area MCR-Computer Room, Row/Col 9/C

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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? *Equipment anchorage was verified during NAPS post-seismic walkdowns following the 08/23/2011 earthquake (Reference ETE NA-2011-056, Revision 1).* Y N U

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-048

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
2-EI-CB-4A hard against JB-00001-2 by design on west side of cabinet; cables feed from JB into the cabinet.

- 8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Class 1 block wall to west & north side of equipment.

Light diffusers not clipped; see NA2-WB-030.
- 9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
Conduit 2CK9550L supported at unistrut above light diffuser not where other conduits are supported; adequate as supported within required distance.

- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U
Conduit support above 2-EP-CB-4A has bolt on left (east) side & screw on right side; judged to be adequate, secured to wall.


Other Adverse Conditions

- 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)

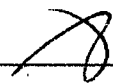
Conduit support above 2-EP-CB-UA has bolt & screw on right side; judged to be adequate, secured to wall.

Evaluated by: Amanda McEnroe*



Date: 07/31/2012

Evaluated by: Daniel J. Vasquez*



Date: 07/31/2012

*For interaction effects & other adverse conditions only

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-049AWC # NA2-WB-023Status Y N U Equipment ID No. 2-BY-B-2-II Equip. Class 15Equipment Description BY/125V Battery 2-IILocation: Bldg. SB Floor El. 294' Room, Area ESGR Battery Room 2-II, Row/Col 8/Db

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
The two base plates against the south wall have gaps > 1/4" but they are shimmed due to irregular floor; judged acceptable. Gaps at other base plates all < 1/4".

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

4. Is the anchorage 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 # NA2-WD-SWEL-049

Interaction Effects


7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
See note about yellow lightweight steps in AWC #NA2-WB-023.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Fluorescent lighting overhead. Reference IPEEE submittal to NRC (1997) for additional information regarding fluorescent lighting evaluation (Section VII, Miscellaneous Issues).
9. Do attached lines have adequate flexibility to avoid damage? Y 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)

- *Plastic tubes used for spacers in some locations between batteries. Other locations used Styrofoam that is ~3/4 of the height of the cell. This was addressed in the USI A-46 SEWS.*
- *Loose plastic spacer tubes at bottom of some battery cells; little mass therefore not a seismic concern.*

Evaluated by: Daniel Vasquez 

Date: 07/30/2012

Evaluated by: Amanda McEnroe 

Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-050AWC # NA2-WB-026Status Y N U Equipment ID No. 2-EG-B-02B Equip. Class 15Equipment Description AP/EDG Batteries and RacksLocation: Bldg. SB Floor El. 272' Room, Area 2H Diesel 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?
Crack in floor, SE corner near anchor bolt and NE corner near anchor bolt → Per Civil DEO Maintenance Rule/Structures inspectors and in accordance with ER-NA-INS-104 "Monitoring of Structures," these cracks are judged to be acceptable. Y N U N/A
5. Is the anchorage configuration consistent 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 USI A-46 SEWS, 01040.NMB-001-CZ, and CE-0872. Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Interaction Effects

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

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-050

8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
- *Space heater in overhead near south end of batteries previously evaluated—SEWS*
 - *Overhead suspended light fixture is okay; bounded by previous IPEEE evaluation.*
9. Do attached lines have adequate flexibility to avoid damage? Y 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
- Battery spacers ranged from about 1/2 to 2/3 of the height of the battery cells. The spacers < than 2/3 of the height of the battery cells were judged to be acceptable since the batteries are tight in the rack with tight fitting spacers that are adequate to prevent the batteries from rocking and colliding during a seismic event.*

Comments (Additional pages may be added as necessary)

1. *Brace under Cell 57 (lower rack, south end), channel nut is rotated out of alignment with unistrut. CR 483286 written to create a work order for repair. This channel nut, as well as remaining channel nuts, are sufficient to support the batteries and battery rack. (See photo included in CR).*
2. *The edge of the drip tray mounted above 2-EG-BC-03 is parallel to edge of battery units, would be preferable to angle away from batteries*
 - *HV lines above drip tray were not actively leaking or dripping during inspection*
 - *Angle of tray lip edge is okay as is.*
3. *Overhead fire line—adequately supported. Okay as is. A seismic-fire interaction review was performed as part of IPEEE and no concerns were identified.*

Evaluated by: Amanda McEnroe  Date: 7/30/2012

Evaluated by: Daniel J. Vasquez  Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-051AWC # NA2-WB-022Status Y N UEquipment ID No. 2-BY-BC-2C-I Equip. Class 16Equipment Description 125V BUS 2-I AND 2-II SWING BTRY CHGR (2-BY-C-03)Location: Bldg. SB Floor El. 254' Room, Area ESGR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 the USI A-46 SEWS evaluation. 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 # NA2-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
 1) *Rod hung and unistrut hung fluorescent lights. Unistrut is tied to rod hung unistrut supports.*
 2) *Overhead duct on north side is well supported.*
 3) *Overhead suspended light on south side of cabinet previously evaluated by IPEEE.*
9. Do attached lines have adequate flexibility to avoid damage? Y 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
Bottom door handle on south side door was difficult for the Electrician to latch & secure (spring not properly engaged). Ultimately the door was successfully latched & secured; no seismic concern. CR #483345 submitted to repair the cabinet door handle.

Comments (Additional pages may be added as necessary)

None

Evaluated by: Daniel J. Vasquez  Date: 07/30/2012Evaluated by: Aminda McEnroe  Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-053AWC # NA2-WB-026Status Y N UEquipment ID No. 2-EE-EG-2H* Equip. Class 17Equipment Description AP/EMERGENCY DIESEL GENERATOR 2HLocation: Bldg. SB Floor El. 271' Room, Area 2H-EDGManufacturer, Model, Etc. (optional but recommended) SEWS not found**Instructions for Completing Checklist**

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-053

Interaction Effects

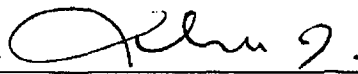
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Xuan Hoang  Date: 7/30/2012

Evaluated by: Glenn Gardner  Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-054

AWC # NA2-WB-004

Status Y N U

Equipment ID No. 2-CH-FT-2130 Equip. Class 18

Equipment Description CH/RCP SEAL WATER INJECTION FLOW (A RCP)

Location: Bldg. AB Floor El. 244' Room, Area Pen. Area 12/N, 11.7/HJ

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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 # NA2-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

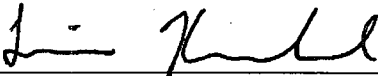
Other Adverse Conditions

- 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: Dave DeMello  Date: 7/25/2012

Evaluated by: Tim Knoebel  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-055AWC # NA2-WB-054Status Y N UEquipment ID No. 2-RC-PT-2472 Equip. Class 18Equipment Description RC/PRESSURIZER TRANSMITTER RACK 2-111Location: Bldg. CTMT Floor El. 216' Room, Area Row/Col -6,8

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
 - One hairline crack near front left bolt on side away from Col 7.
 - Crevice in the floor has been painted over, appears to be from original construction. These conditions judged not to be a concern for the structural integrity of this component's support frame.

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 # NA2-WD-SWEL-055

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
See below (#8) Y N 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 duct line is secured, well supported. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-056

AWC # NA2-WB-010

Status Y N U

Equipment ID No. 2-RC-LIS-2312 Equip. Class 18

Equipment Description RC/SEAL TABLE ISOLATOR

Location: Bldg. AB Floor El. 259'-6" Room, Area CABLE VAULT

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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.*

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

Seismic Walkdown Checklist (SWC)

SWC # NA2-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: David DeMelloDate: 7/27/2012Evaluated by: William GallagherDate: 7/27/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-057

AWC # NA2-WB-010

Status Y N U

Equipment ID No. 2-RC-LT-2312 Equip. Class 18

Equipment Description RC/W-RANGE LEVEL

Location: Bldg. AB Floor El. 259'-6" Room, Area CABLE VAULT

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

- 4. Is the anchorage 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 # NA2-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

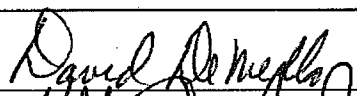
Other Adverse Conditions

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)

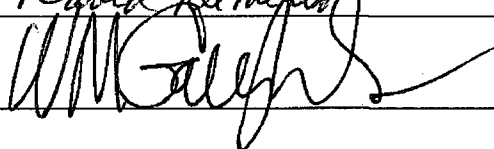
None.

Evaluated by: *David DeMello*



Date: *7/27/2012*

Evaluated by: *William Gallagher*



Date: *7/27/2012*

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-058AWC # NA2-WB-065Status Y N UEquipment ID No. 2-QS-LT-200C Equip. Class 18Equipment Description QS/RWST LEVEL TRANSMITTERLocation: Bldg. Yard Floor El. 271' Room, Area RWST and Chem Add Tank

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

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

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

Seismic Walkdown Checklist (SWC)

SWC # NA2-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

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

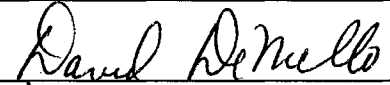
- 10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U


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)

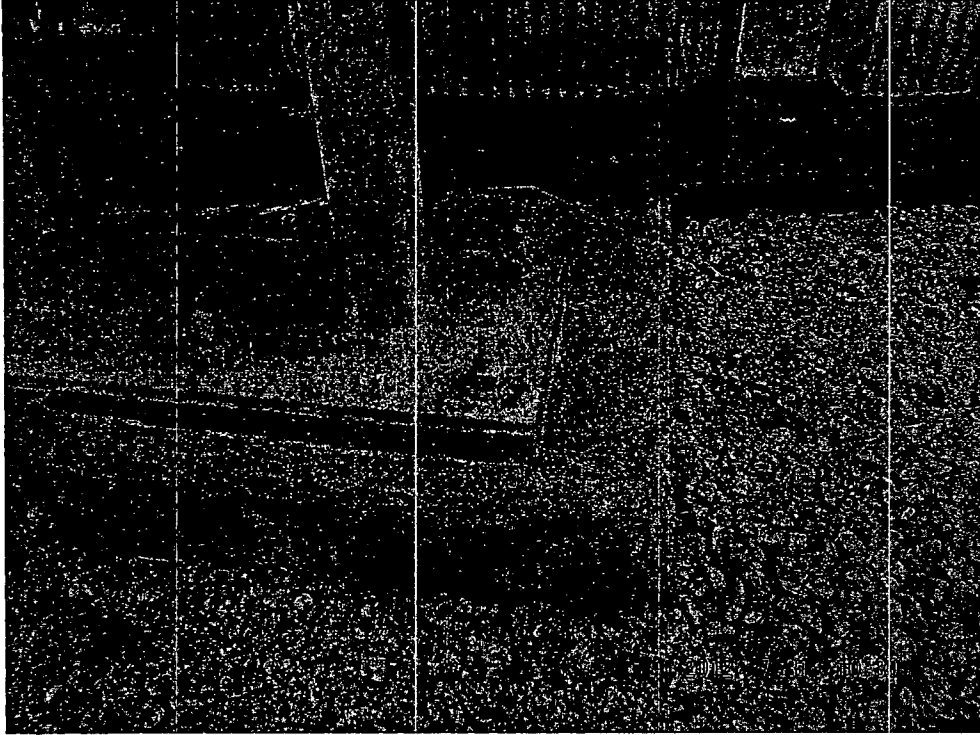
Previously noted crack in SEWS sheet is no longer evident. Grout has been removed along 2 sides where the crack was previously noted, see photo. Concrete base has no cracks, installation acceptable as is.

Evaluated by: David DeMello  Date: 7/31/2012

Evaluated by: Tim Knoebel  Date: 7/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-058



Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-059AWC # NA2-WB-060Status Y N U Equipment ID No. 2-MS-PT-2474 Equip. Class 18Equipment Description MS/SG A STEAM PRESSURE TRANSMITTERLocation: Bldg. QSPH Floor El. 256' Room, Area Row/Col. 13.7/GB

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-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: Tim KnoebelDate: 7/26/2012Evaluated by: David DeMelloDate: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-060

AWC # NA2-WB-061

Status Y N U

Equipment ID No. 2-MS-PY-201A Equip. Class 18

Equipment Description MS/SG A STEAM DUMP VALVE E/P TRANSDUCER

Location: Bldg. QSPH Floor El. 272' 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

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-060

Interaction Effects

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

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

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

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Tim Knoebel



Date: 7/26/2012

Evaluated by: David DeMello



Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-061AWC # NA2-WB-052Status Y N UEquipment ID No. 2-CN-LT-200A Equip. Class 18Equipment Description CN/CONDENSATE STORAGE TANK LEVEL TRANSMITTERLocation: Bldg. AFWPH Floor El. 271' Room, Area Motor Driven

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-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
9. Do attached lines have adequate flexibility to avoid damage? Y 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)

Ref.: SEWS form

Evaluated by: Tim Knoebel



Date: 7/27/2012

Evaluated by: William Gallagher



Date: 7/27/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-062

AWC # NA2-WB-053

Status Y N U

Equipment ID No. 2-FW-PT-203A Equip. Class 18

Equipment Description FW/TD AFWP SUCTION PRESSURE TRANSMITTER

Location: Bldg. AFWPH Floor El. 273' Room, Area Turbine Driven

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-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

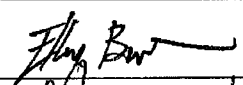
Other Adverse Conditions

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)

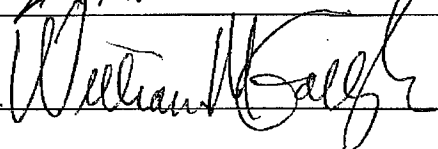
None.

Evaluated by: Ellery Baker



Date: 7/23/2012

Evaluated by: William Gallagher, Sr.



Date: 7/23/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-063AWC # NA2-WB-052Status Y N UEquipment ID No. 2-FW-FT-200A Equip. Class 18Equipment Description FW/AFWP TO SG A FLOW TRANSMITTERLocation: Bldg. AFWPH Floor El. 273' Room, Area Motor Driven

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-063

Interaction Effects

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

Other Adverse Conditions

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

Comments (Additional pages may be added as necessary)

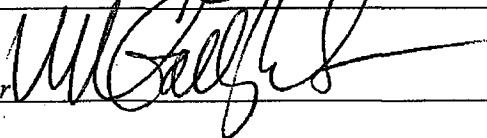
Ref: SEWS form

Evaluated by: Tim Knoebel



Date: 7/27/2012

Evaluated by: William Gallagher



Date: 7/12/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-064AWC # NA2-WB-055Status Y N UEquipment ID No. 2-FW-LT-2487 Equip. Class 18Equipment Description FW/SG 1BLocation: Bldg. CTMT Floor El. 244' Room, Area Pipe Pen. Area, Row/Col 9 (Rack #120)

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-064

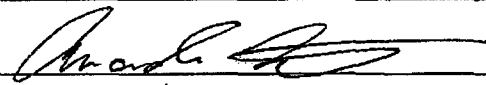
Interaction Effects

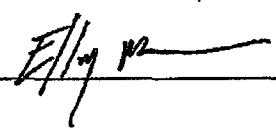
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
One overhead threaded rod hung light, ok, not a credible interaction concern.
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-065

AWC # NA1-WB-036

Status Y N U

Equipment ID No. 2-SW-PT-201A Equip. Class 18

Equipment Description SW/SW PUMP DISCHARGE PRESSURE TRANSMITTER (from U1 SSEL)

Location: Bldg. SWPH Floor El. 328' 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

- Northwest anchor bolt: threads flush with nut
- Southeast anchor bolt: threads nearly flush with nut

Both configurations acceptable.

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

Coated and painted

4. Is the anchorage 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.)

Consistent with USI A-46 SEWS.

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-065

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

Interaction Effects

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

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

Suspended light overhead is bounded by evaluations of lighting done per USI A-46/IPEEE.

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

Line from JB to transmitter has minimal flexibility, but is judged by SWEs to be adequate.

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

Baseplate for conduit support at floor, north anchor bolt too close to southeast bolt of baseplate for lateral brace of pipe support. CR 483595 submitted to address operability and to initiate a work order to fix the anchor bolt spacing violation.

Comments (Additional pages may be added as necessary)

None.

Evaluated by: Daniel J. Vasquez  Date: 8/1/2012

Evaluated by: Amanda McEnroe  Date: 8/1/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-066AWC # NA2-WB-021Status Y N UEquipment ID No. 2-HV-FS-2215A Equip. Class 18Equipment Description HV/CND WTR PUMP SEAL FLOW SWITCHLocation: Bldg. SB Floor El. 254' Room, Area Chiller 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
- In-line support.*
5. Is the anchorage configuration consistent 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?
Piping in-line component, supported per SEWS. Y N U

Seismic Walkdown Checklist (SWC)

SWC # NA2-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

Fluorescent lamp has 2 all thread – acceptable seismic support. One of rods bent by approximately 3". Also, lamp fixture has tie-wraps holding reflector. Acceptable condition.

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

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

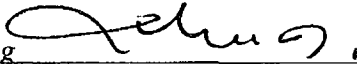
Other Adverse Conditions

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: Glenn Gardner  Date: 7/25/2012

Evaluated by: Xuan Hoang  Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-067

AWC # NA2-WB-026

Status Y N U

Equipment ID No. 2-EG-LS-203-HA Equip. Class 18

Equipment Description EG/FUEL OIL DAY TANK LEVEL SWITCH (from U1 SSEL)

Location: Bldg. SB Floor El. 271' Room, Area 2H EDG 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.)
SEWS sketch for 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 # NA2-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: Glenn Gardner



Date: 7/30/2012

Evaluated by: Xuan Hoang



Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-068AWC # NA2-WB-052Status Y N UEquipment ID No. 2-FW-PC-259A Equip. Class 18Equipment Description FW Pressure ControlLocation: Bldg. AFPH Floor El. 273' Room, Area Motor Driven

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-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

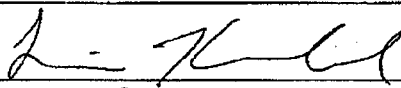
Other Adverse Conditions

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: Tim Knoebel



Date: 8/8/12

Evaluated by: Amanda McEnroe



Date: 8/8/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-069AWC # NA2-WB-064Status Y N UEquipment ID No. 2-RS-LT-203A Equip. Class 18Equipment Description RS/CASING COOLING TANK LEVEL XMTRLocation: Bldg. Yard Floor El. _____ Room, Area Casing Cooling Tank

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.) Y N U N/A
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U

Seismic Walkdown Checklist (SWC)

SWC # NA2-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)

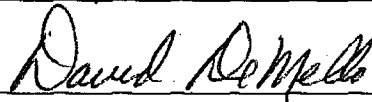
None.

Evaluated by: *Tim Knoebel*



Date: 7/31/2012

Evaluated by: *David DeMello*



Date: 7/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-070

AWC # NA1-WB-011

Status Y N U

Equipment ID No. 2-CH-FT-2114 Equip. Class 18

Equipment Description PG WATER TO BORIC ACID BLENDER FLOW TRANSMITTER

Location: Bldg. AB Floor El. 274' Room, Area Row/Col 9.6/J

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage 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 sketch.

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

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-070Interaction Effects

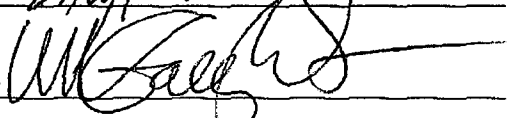
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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
Nearby overhead light is unsupported and hanging by conduit. Need to install support. CR 482862 has been written. No adverse interaction potential. Not a seismic concern.

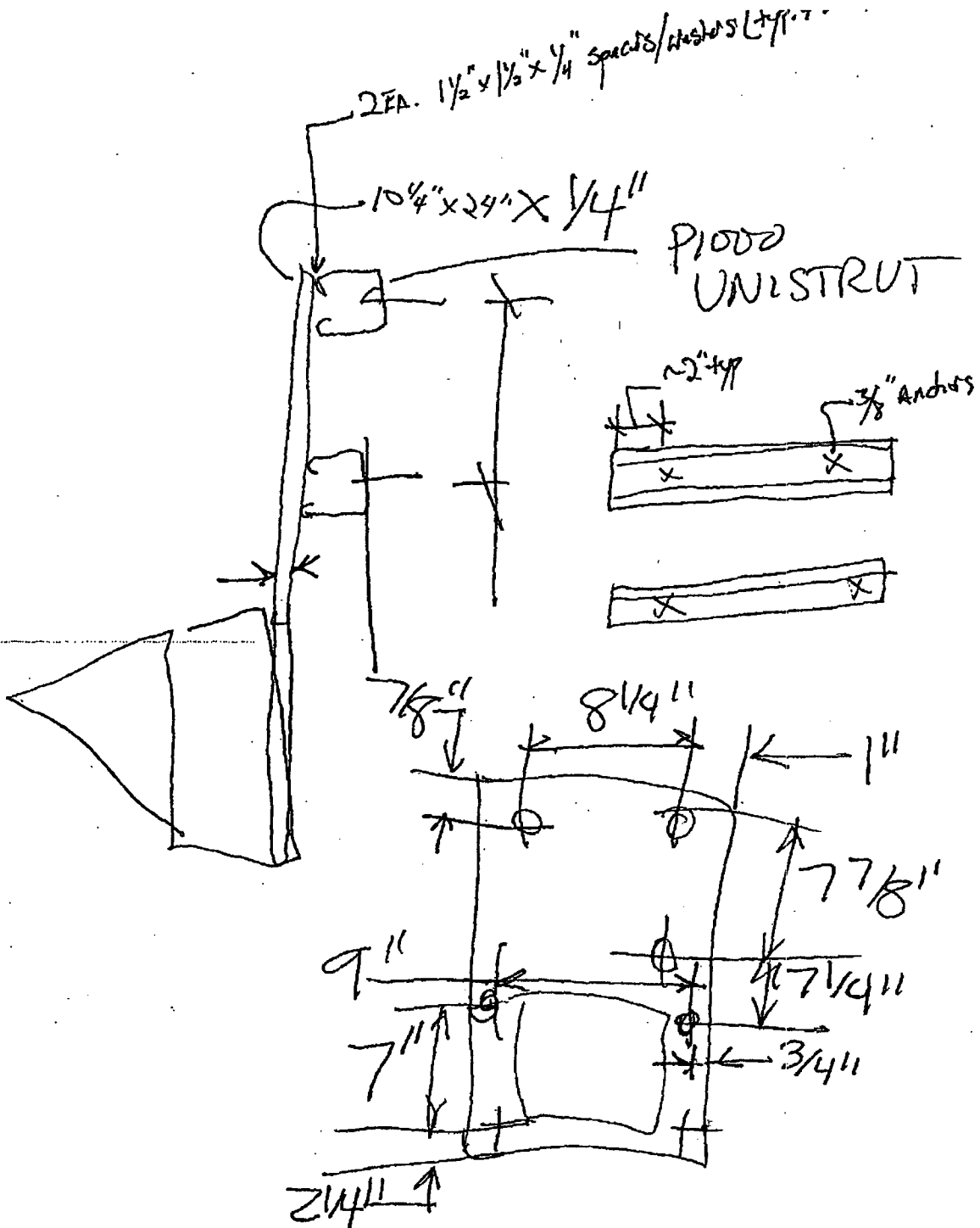
Comments (Additional pages may be added as necessary)

None.

Evaluated by: Ellery BakerDate: 7/25/2012Evaluated by: William GallagherDate: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-070



Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-071AWC # NA2-WB-054Status Y N U Equipment ID No. 2-RS-LT-251A-1 Equip. Class 18Equipment Description REACTOR CONTAINMENT SUMP LEVEL TRANSMITTERLocation: Bldg. CTMT Floor El. 216' 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 # NA2-WD-SWEL-071Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Equipment has heavy sheet metal shield installed. Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting,
and masonry block walls not likely to 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: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-072AWC # NA1-WB-001Status Y N UEquipment ID No. 2-CC-TE-200 Equip. Class 19Equipment Description CC/CCW HX OUTLET TEMPLocation: Bldg. AB Floor El. 244' Room, Area CC Pumps, Row/Col 10/G

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-072

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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

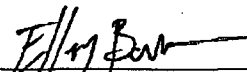
Other Adverse Conditions

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)

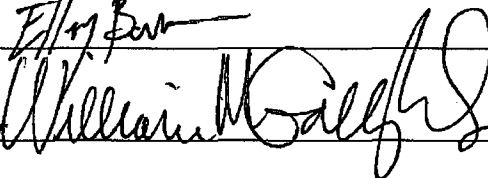
Noted inactive CC leak at threaded connection to pipe → not a seismic concern.

Evaluated by: Ellery Baker



Date: 7/31/2012

Evaluated by: William Gallagher



Date: 7/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-074AWC # NA2-WB-052Status Y N UEquipment ID No. 2-FW-PC-259B Equip. Class 18Equipment Description FW Pressure ControlLocation: Bldg. AFPH Floor El. 273' Room, Area Motor Driven

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-074

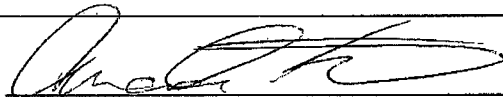
Interaction Effects

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:  Date: 8/8/12

Evaluated by:  Date: 8/8/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-075AWC # NA2-WB-022Status Y N UEquipment ID No. 2-EI-CB-06A Equip. Class 20Equipment Description EI/AUXILIARY SHUTDOWN PANELLocation: Bldg. SB Floor El. 254' Room, Area ESGR

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

3. Is the anchorage free of corrosion that is more than mild surface oxidation? 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 in concrete observed when opening south door; judged acceptable.

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.)
Consistent USI A-46 SEWS

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
Washers wedged underneath cabinet frame on south side; acceptable since gap between the cabinet and the floor is < 1/4".

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-075Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Bolted to adjacent cabinet 2-EI-CB-06B
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
 1. *Rod hung fluorescent lights on south side of cabinet previously evaluated for IPEEE*
 2. *East wall is a reinforced block wall.*
9. Do attached lines have adequate flexibility to avoid damage? Y 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
Filing cabinet on east side of cabinet placed LAW ET-N-00-103 for compliance with VPAP-0312. The filing cabinet is labeled with this information.

Comments (Additional pages may be added as necessary)*None.*

Evaluated by: Amanda McEnroe  Date: 07/30/2012

Evaluated by: Daniel J. Vasquez  Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-076AWC # NA2-WB-052Status Y N U Equipment ID No. 2-FW-FT-200B Equip. Class 18Equipment Description FW/AFWP To SG A FlowLocation: Bldg. AFPH Floor El. 273' Room, Area Motor Driven

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-076

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Unit heater in overhead 2-HV-UH-46B, previously evaluated for IPEEE; also not credible interaction due to robust beam support blocking travel path to component.

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

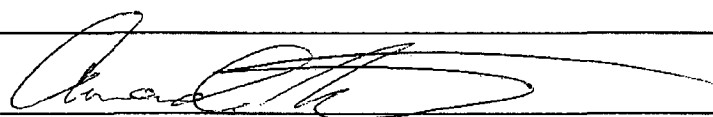
- 9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A

- 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:  Date: 8/8/12

Evaluated by:  Date: 8/8/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-078AWC # NA2-WB-024Status Y N U Equipment ID No. 2-EI-CB-23B Equip. Class 20Equipment Description EI/PROCESS CABINET BLocation: Bldg. SB Floor El. 254" Room, Area IRR

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 USI A-46 SEWS. 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 # NA2-WD-SWEL-078Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Tied to adjacent cabinet.
8. Are 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 on east side secured with tie-wraps. Reference IPEEE 1997 submittal for additional discussion on the fluorescent lights.
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

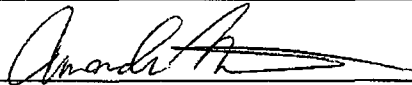
Other Adverse Conditions

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)

Potentially two missing fasteners at top and bottom of swinging rack panel on west side of cabinet. Per maintenance I&C department power supply repair technician, the screw fasteners are not required to hold the rack in place. There is not a seismic concern with the rack inside the cabinet.

Greenlee ribbon in cable trough (check with the Appendix R Coordinator) → Per the Appendix R Engineer, the Greenlee tape is not a transient combustible load concern. It is a legacy issue and is being removed as it is discovered in cable troughs. CR 483042 was submitted for a work order to remove the Greenlee tape.

Evaluated by: Amanda McEnroe

Date: 7/26/2012Evaluated by: Daniel J. Vasquez

Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-080

AWC # NA2-WB-029

Status Y N U

Equipment ID No. 2-EI-CB-300 Equip. Class 20

Equipment Description TSC Multiplexer Cabinet

Location: Bldg. SB Floor El. 271' Room, Area MCR, 8.8/D

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Structural framing anchored to steel that goes to concrete below the false floor

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 # NA2-WD-SWEL-080

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
1. *Fluorescent light overhead—okay per IPEEE submittal (May 1997)*
2. *Class 1 block wall adjacent—okay, wall is reinforced.*
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Daniel J. Vasquez  Date: 7/27/2012

Evaluated by: Amanda McEnroe  Date: 7/27/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-081AWC # NA2-WB-024Status Y N UEquipment ID No. 2-EI-CB-47C Equip. Class 20Equipment Description EI/SOLID STATE PROTECTION LOGIC CABINET (TRAIN A)Location: Bldg. SB Floor El. 254' Room, Area IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

3. Is the anchorage free of corrosion that is more than mild surface oxidation? 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 crack near NW friction clip/hairline crack on west side as well*
 - *Not a seismic concern. The embedded unistrut channel is continuously supported.*

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.)
Consistent with USI A-46 SEWS.

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

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-081

Interaction Effects

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

Tied to adjacent cabinets.

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

See NA2-WD-SWEL-082 about fluorescent light.

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

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

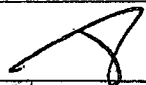
Other Adverse Conditions

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)

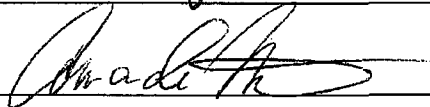
None.

Evaluated by: Daniel J. Vasquez



Date: 7/26/2012

Evaluated by: Amanda McEnroe



Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-082AWC # NA2-WB-024Status Y N U Equipment ID No. 2-EI-CB-47E Equip. Class 20Equipment Description EIP/SOLID STATE PROTECTION OUTPUT CABINET (TRAIN A)Location: Bldg. SB Floor El. 254' Room, Area IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Two (2) hairline cracks at front anchors (west side). Cracking ends at unistrut channels. Also, two similar hairline cracks at back anchors (east side). The identified cracks are hairline and do not challenge the structural integrity of the cabinet anchorage. The embedded unistrut channels are continuously supported.

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.)
Consistent with USI A-46 SEWS.

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

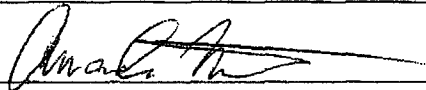
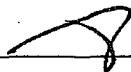
Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-082Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures?
Tied to adjacent cabinets. Y N 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 lights on east and west side of cabinet secured with tie wraps. Reference IPEEE 1997 submittal for additional discussion on the overhead fluorescent lights. One (1) of the threaded rods holding the fluorescent lighting on the east side is disengaged from the turnbuckle (7 total threaded rods—6 functional). CR 483041 was written. The remaining 6 rods are capable of supporting the light fixture until the disengaged rod is fixed. Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Amanda McEnroeDate: 7/26/2012Evaluated by: Daniel J. VasquezDate: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-083AWC # NA2-WB-024Status Y N UEquipment ID No. 2-EI-CB-64A Equip. Class 20Equipment Description EI/SOLID STATE PROT SYS AUX RELAY RACKLocation: Bldg. SB Floor El. 254' Room, Area IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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

Consistent with USI A-46 SEWS.

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

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-083

Interaction Effects

- 7. Are soft targets free from impact by nearby equipment or structures?
Tied to adjacent cabinets. Y N 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 NA2-WD-SWEL-082 about fluorescent light. Y N U N/A

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

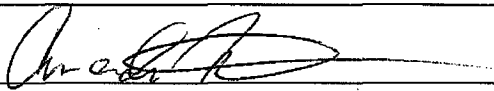
- 10. Based on the above seismic interaction evaluations, is equipment free
of potentially adverse seismic interaction effects? Y N U


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)

Non-seismic issue: bundle of Greenlee tape located in north side of wire trough. Evaluate if needs to be removed (consult with Appendix R coordinator) → Per Appendix R coordinator, the Greenlee tape is not a transient combustible load concern. It is a legacy issue and is currently being removed from cable troughs as it is discovered during maintenance activities. CR 483042 was submitted for a work order to remove the Greenlee tape.

Evaluated by: Amanda McEnroe  Date: 7/26/2012

Evaluated by: Daniel J. Vasquez  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-084

AWC # NA2-WB-022

Status Y N U

Equipment ID No. 2-EI-CB-202 Equip. Class 20

Equipment Description EI/EMERG SWGR RM DG ISOL PANEL (H-TRAIN)

Location: Bldg. SB Floor El. 254' Room, Area ESGR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-084

6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y N U
12 of 15 anchors are visible, center three are obstructed by the bottom of the cabinet. The visible anchors are in good condition. Since 80% of the anchors were inspected and the 12 anchors observed were in good condition, this inspection is considered adequate.

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
 1) *Rescue pole at southeast corner from cabinet is secured and not a concern.*
 2) *2" clearance from 2-EE-SS-2H, acceptable based on support configuration of this equipment.*
8. Are 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 rod hung lamp previously evaluated for IPEEE.
9. Do attached lines have adequate flexibility to avoid damage? Y 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

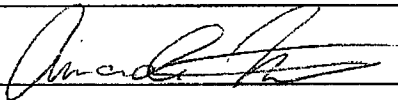
11. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment? Y N U

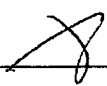
Comments (Additional pages may be added as necessary)

None

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-084

Evaluated by: Amanda McEnroe  Date: 07/30/2012

Evaluated by: Daniel J. Vasquez  Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-086AWC # NA2-WB-024Status Y N U Equipment ID No. 2-EP-CB-28B Equip. Class 20Equipment Description EP/AUXILIARY RELAY RACK B, (INSTRUMENT RACK BANK 4)Location: Bldg. SB Floor El. 254' Room, Area IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
Minor hairline cracks—not a seismic concern as the cracks are hairline and the embedded unistrut is continuously supported.

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.)
Consistent with USI A-46 SEWS.

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

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-086

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Tied to adjacent cabinets
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
 - *Fluorescent lighting on the east side secured with tie wrap (not on west side)*
 - *See AWC #NA2-WB-024.*
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Daniel J. Vasquez 

Date: 7/26/2012

Evaluated by: Amanda McEnroe 

Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-087

AWC # NA2-WB-024

Status Y N U

Equipment ID No. 2-EI-CB-63A Equip. Class 20

Equipment Description EP/LOOP STOP VALVE LOGIC CABINET RACK A

Location: Bldg. SB Floor El. 254' Room, Area IRR

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
 - *Degraded concrete at south east corner—previously indicated on USI A-46 SEWS.*
 - *Minor hairline cracks observed—not considered to be a seismic concern. The embedded unistrut channels are continuously supported.*

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

4. Is the anchorage 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.)

Consistent with USI A-46 SEWS.

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-087

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

Interaction Effects

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

Tied to adjacent cabinets

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

See NA2-WD-SWEL-082 for fluorescent light notes, previously evaluated.

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

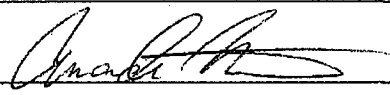
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

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)

- *Housekeeping issue: Washer plate appears to be "left behind" on the unistrut channel, under the cabinet frame, on the west side (see photo in CR 483046). This is not a seismic concern since the washer plate is located above cables and the cable trough (not above sensitive equipment).*

Evaluated by: Amanda McEnroe  Date: 7/26/2012

Evaluated by: Daniel J. Vasquez  Date: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-092

AWC # NA2-WB-024

Status Y [checked] N [] U []

Equipment ID No. 2-EP-CB-219 Equip. Class 20

Equipment Description SERVICE WATER AUX RELAY PANEL

Location: Bldg. SB Floor El. 254' Room, Area ESGR

Manufacturer, Model, Etc. (optional but recommended)

Instructions for Completing Checklist

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Anchorage

- 1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y [checked] N []
2. Is the anchorage free of bent, broken, missing or loose hardware? Y [checked] N [] U [] N/A []
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y [checked] N [] U [] N/A []
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y [checked] N [] U [] N/A []
5. Is the anchorage configuration consistent 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 [checked] N [] U [] N/A []
6. Based on the above anchorage evaluations, is the anchorage free of potentially adverse seismic conditions? Y [checked] N [] U []

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-092Interaction Effects

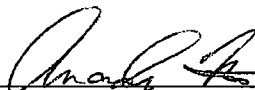
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
 • *About 1/4" clearance between Hoffman box and Gaitronics.
 Acceptable since both rigidly mounted and will not interact.*
 • *2-ELT-B-65-3 rigidly mounted above.*
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
Fluorescent lighting—see AWC # NA2-WB-024.
9. Do attached lines have adequate flexibility to avoid damage? Y 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: Daniel J. VasquezDate: 7/26/2012Evaluated by: Amanda McEnroeDate: 7/26/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-093AWC # NA2-WB-057Status Y N U Equipment ID No. 2-GN-TK-1A Equip. Class 21Equipment Description GN/N2 RESERVE TANKLocation: Bldg. CTMT Floor El. 291' Room, Area PZR Cubicle

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of SWEL items requiring such verification)? Y N
2. Is the anchorage free of bent, broken, missing or loose hardware? Y N U N/A
3. Is the anchorage free of corrosion that is more than mild surface oxidation? Y N U N/A
4. Is the anchorage free of visible cracks in the concrete near the anchors? Y N U N/A
5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-093Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-094

AWC # NA1-WB-001

Status Y N U

Equipment ID No. 2-CC-E-1A Equip. Class 21

Equipment Description CC/COMPONENT COOLING WATER HX

Location: Bldg. AB Floor El. 244' Room, Area CC Pumps, Row/Col 9/G

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-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

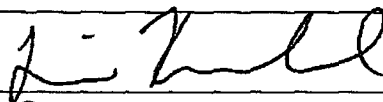
Other Adverse Conditions

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)

None

Evaluated by: Tim Knoebel



Date: 07/30/2012

Evaluated by: David DeMello



Date: 07/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-095

AWC # NA2-WB-021

Status Y N U

Equipment ID No. 2-HV-TK-6A Equip. Class 21

Equipment Description HV/CHILLED WATER EXPANSION TANK

Location: Bldg. SB Floor El. 254' Room, Area Chiller 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 # NA2-WD-SWEL-095**Interaction Effects**

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
- 4" diameter bell and spigot piping above tank. Approximately 3' horizontal to soft target (sight glass) such that interaction is not expected.*
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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: Glenn GardnerDate: 7/25/2012Evaluated by: Xuan HoangDate: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-096

AWC # NA2-WB-026

Status Y N U

Equipment ID No. 2-EG-TK-2H Equip. Class 21

Equipment Description EG/FUEL OIL DAY TANK (from UI SSEL)

Location: Bldg. SB Floor El. 271' Room, Area 2HEDG

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
4-1" diameter embedded J bolts per 11715-FC-6N-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 # NA2-WD-SWEL-096

Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
Lamp secured to ceiling adequately. Supported acceptable.
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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: Glenn Gardner



Date: 7/30/2012

Evaluated by: Xuan Hoang



Date: 7/30/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-097

AWC # NA2-WB-026

Status Y N U

Equipment ID No. 2-EG-TK-2HA Equip. Class 21

Equipment Description EG/AIR COMPRESSOR AIR RECEIVER (from U1 SSEL)

Location: Bldg. SB Floor El. 271' Room, Area 2HEDG

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent with plant documentation?
(Note: This question only applies if the item is one of the 50% for which an anchorage configuration verification is required.)
4 – 3/4" diameter bolts per drawing 11315-FC-6N-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 # NA2-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)

None

Evaluated by: Xuan Hoang



Date: 07/31/2012

Evaluated by: Glenn Gardner



Date: 07/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-098AWC # NA2-WB-054Status Y N U Equipment ID No. 2-RS-E-1D Equip. Class 21Equipment Description RS/INSIDE RECIRC SPRAY COOLER DLocation: Bldg. CTMT Floor El. 216' Room, Area Column 5

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

1. Is the anchorage configuration verification required (i.e., is the item one of the 50% of 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 NA2-WB-055 regarding loose anchors at elev. 241'
3 BP anchors lack full engagement by 1 to 3 threads acceptable as is.

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

4. Is the anchorage 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 # NA2-WD-SWEL-098Interaction Effects

7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to 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: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-099

AWC # NA2-WB-065

Status Y N U

Equipment ID No. 2-QS-TK-2 Equip. Class 21

Equipment Description QS/REFUELING WATER CHEM ADD TANK

Location: Bldg. YARD Floor El. _____ Room, Area RWST and Chem Add 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.)

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

Seismic Walkdown Checklist (SWC)

SWC # NA2-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
9. Do attached lines have adequate flexibility to avoid damage? Y 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: David DeMello *David DeMello* Date: 7/31/2012

Evaluated by: Tim Knoebel *Tim Knoebel* Date: 7/31/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-100AWC # NA2-WB-062Status Y N UEquipment ID No. 2-RS-E-2A* Equip. Class 21Equipment Description RS/OUTSIDE RECIRC SPRAY PUMP A SEAL HXLocation: Bldg. Safeguards Floor El. 256' Room, Area "A" Outside RS 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

Seismic Walkdown Checklist (SWC)

SWC # NA2-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
9. Do attached lines have adequate flexibility to avoid damage? Y N U N/A
10. Based on the above seismic interaction evaluations, is equipment free of potentially adverse seismic interaction effects? Y N U

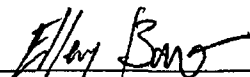
Other Adverse Conditions

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)

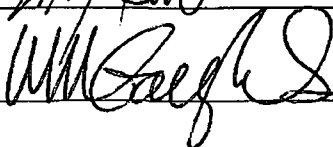
None.

Evaluated by: Ellery Baker



Date: 7/25/2012

Evaluated by: William Gardner



Date: 7/25/2012

Seismic Walkdown Checklist (SWC)

SWC # NA2-WD-SWEL-101

AWC # NA2-WB-001

Status Y N U

Equipment ID No. 2-SW-MOV-213A Equip. Class 08A

Equipment Description SW/CCW FUEL PIT COOLERS ISOL

Location: Bldg. AB Floor El. 244 Room, Area AUXILIARY BUILDING 9.3/F

Manufacturer, Model, Etc. (optional but recommended) _____

Instructions for Completing Checklist

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

Anchorage

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

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

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

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

5. Is the anchorage configuration consistent 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 # NA2-WD-SWEL-101

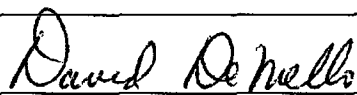
Interaction Effects

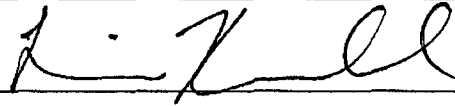
7. Are soft targets free from impact by nearby equipment or structures? Y N U N/A
8. Are overhead equipment, distribution systems, ceiling tiles and lighting, and masonry block walls not likely to collapse onto the equipment? Y N U N/A
9. Do attached lines have adequate flexibility to avoid damage? Y 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: David DeMello  Date: 07/30/2012

Evaluated by: Tim Knoebel  Date: 07/30/2012

Appendix E

Unit 1 Area Walk-by Checklists

(72 pages)

Area Walk-By Checklist (AWC)

AWC # NA1-WB-001Status Y N ULocation: Bldg. Auxiliary Floor El. 244' Room, Area CC Pumps - 8.7-10/FGH
Building**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
SW line to 1-SW-15 is touching pipe support U-bolt in overhead east of 1-CC-E-1A. Determined to be an acceptable condition as neither component is degraded and interaction would be negligible. No lateral restraints on piping; CR 483426 and CR 483334 submitted.

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

Area Walk-By Checklist (AWC)

AWC # NA1-WB-001

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)

Associated Seismic Walkdown Checklists:

NA1-WD-SWEL-015, 037, 071, 093, 102

NA2-WD-SWEL-015, 039, 072, 094, 101

Evaluated by: Ellery Baker



Date: 07/25/2012

Evaluated by: William Gallagher



Date: 07/25/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-002Status Y N U Location: Bldg. Auxiliary Building Floor El. 244' Room, Area UI Penetration Area - 6-8/J**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 # NA1-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

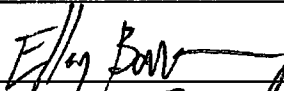
Noted scaffold beam clamp left installed on structural steel 8x8s in overhead containment side of 1-HT-P-35 in walkdown—not a concern. CR 482667 was written to address.

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)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-023, 024, 030, 033*

Evaluated by: Ellery Baker



Date: 7/24/2012

Evaluated by: William Gallagher



Date: 7/24/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-005Status Y N ULocation: Bldg. Auxiliary Building Floor El. 244' Room, Area UI "B" Charging Pump 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
Noted installed permanent shielding—installation satisfactory. Multiple overhead lights not chained, but free to pivot. Not an interaction concern. No SR equipment targets raise concerns—all are robust.

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 # NA1-WB-005

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
Noted permanent shielding—installed satisfactorily.

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)

*Associated Seismic Walkdown Checklists:
 NA1-WD-SWEL-014, 031*

Noted oil on surface at end of pump bearing opposite of motor end and ~ 50' of tygon tubing. Not a seismic concern.

Evaluated by: Ellery Baker

Date: 7/24/2012

Evaluated by: William Gallagher

Date: 7/24/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-007Status Y N U

Location: Bldg. Auxiliary Building Floor El. 259 Room, Area U1 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

Nut not fully engaged on 1 anchor on Cable Tray 1TL018P (see Photos 1 and 2), see CR 482686 for documentation of this issue. Acceptable due to additional anchorage and small load.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

Noted conduit supports missing anchor for four supports (see Photo 3). Acceptable due to minimal load and additional lateral restraints to an adjacent wall, which are part of the conduit frame for these supports. CR 482689 was written to document this condition.

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

Cable tray filled approximately 50% or less.

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

Lights do not have cages to catch light bulbs.

Area Walk-By Checklist (AWC)

AWC # NA1-WB-007

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

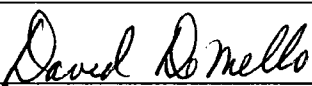
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists:

NA1-WD-SWEL-055, 056, 086

Boundary of the area walkdown was the entire Unit 1 cable vault.

Evaluated by: David M. DeMello  Date: 7/24/2012

Evaluated by: Tim Knoebel  Date: 7/24/2012

AWC#: NA1-WB-007

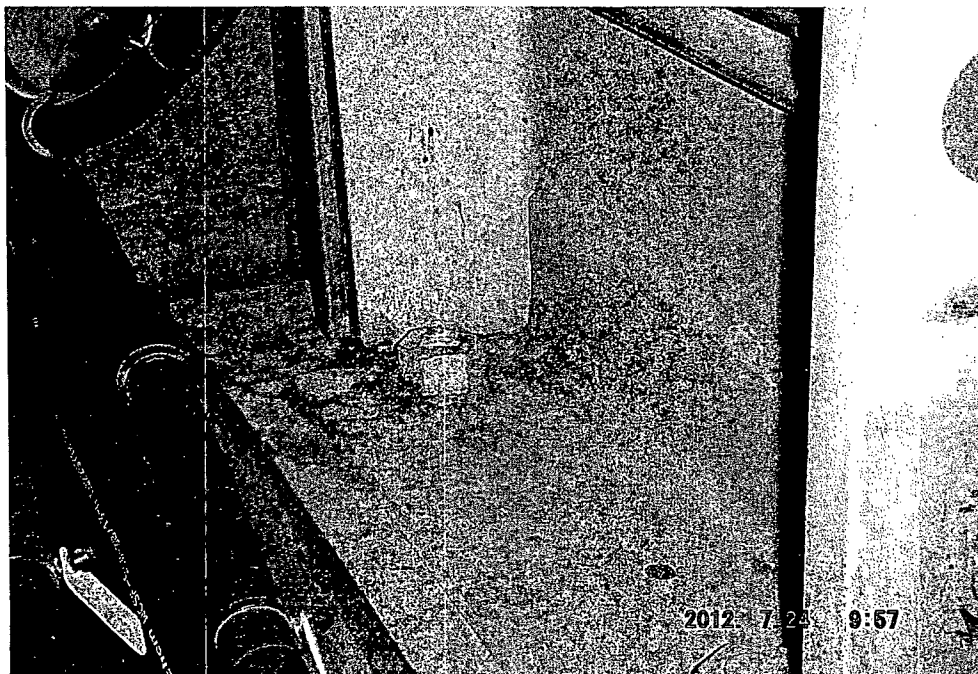


Photo 1

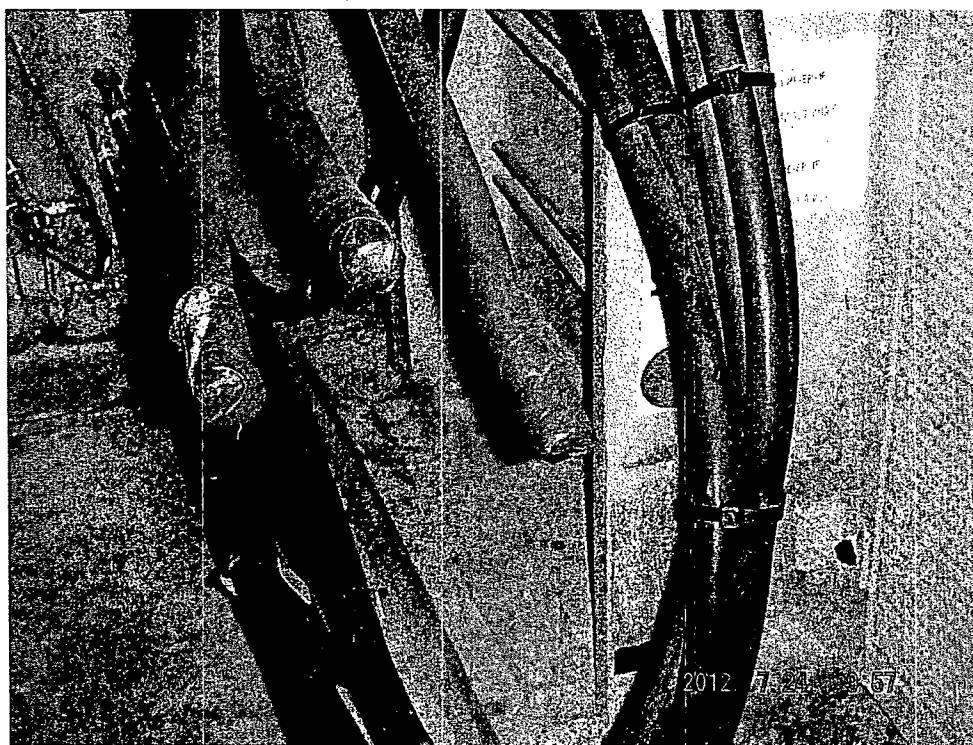


Photo 2

AWC#: NA1-WB-007

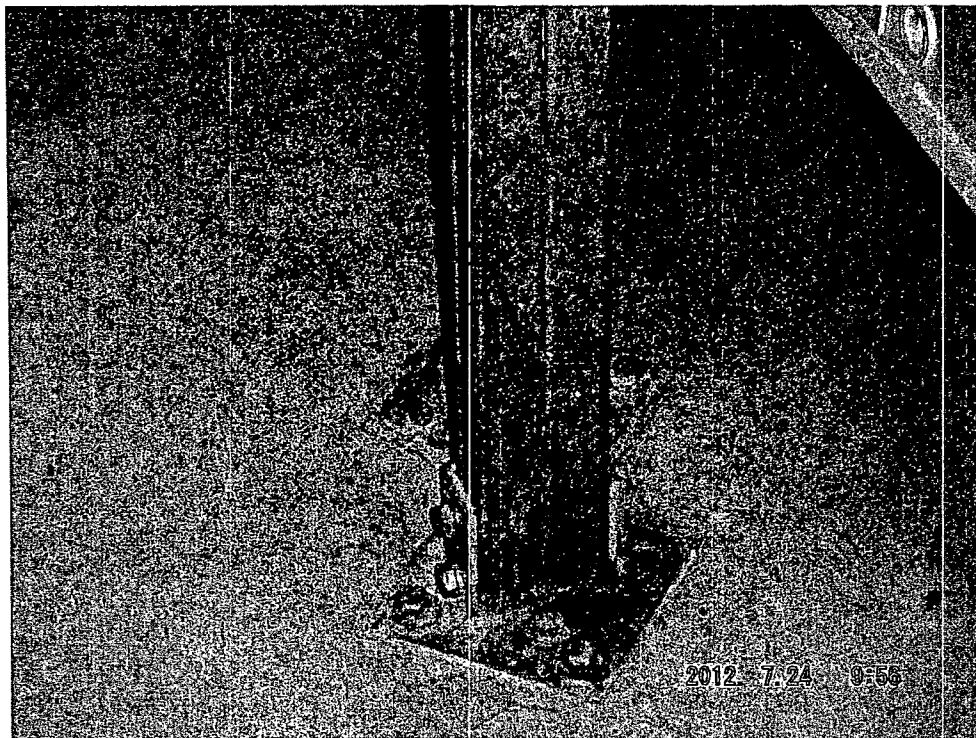


Photo 3

Area Walk-By Checklist (AWC)

AWC # NA1-WB-011

Status Y N U

Location: Bldg. Auxiliary Floor El. 274' Room, Area 8,9/G,J - BASTs
Building

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 # NA1-WB-011

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)

Associated Seismic Walkdown Checklists:

NA1-WD-SWEL-012, 053, 069, 088, 091

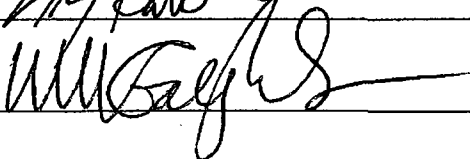
NA2-WD-SWEL-070

Evaluated by: Ellery Baker



Date: 7/25/2012

Evaluated by: William Gallagher



Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-012Status Y N ULocation: Bldg. Auxiliary Building Floor El. 280' Room, Area UI Rod Drive 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

- 1) Overhead fluorescent lighting throughout room.
- 2) Suspended emergency light near 1-EI-CB-46A.

Both items above were previously evaluated during IPEEE and found to be acceptable.

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 # NA1-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

Abandoned conduit penetrations are filled with fire proofing material (adjacent to 1-EP-MCC-1B1-2 and 1-EC-TRAN-24).

- 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

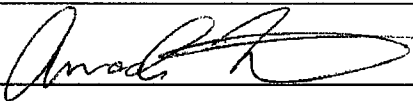
Rescue pole across from 1-EP-MCC-1A1-1 is adequately secured.

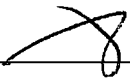
- 8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Some hairline cracks indentified on paint/coating material on outside of containment wall. The wall was inspected in accordance with ASME code following the 08/23/2011 seismic event and evaluated at that time.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-007, 008, 011, 083*

Evaluated by: Amanda McEnroe  Date: 07/31/2012

Evaluated by: Daniel J. Vasquez  Date: 07/31/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-014Status Y N U

 Location: Bldg. Auxiliary Floor El. 291' Room, Area 9/F - CC Surge Tank
Building

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 # NA1-WB-014

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

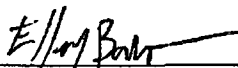
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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)

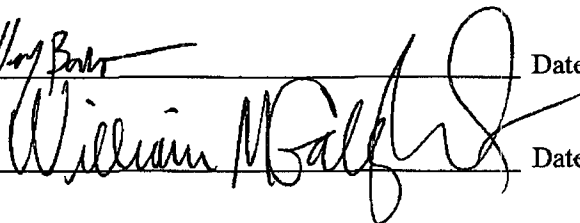
*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-063, 094*

Evaluated by: Ellery Baker



Date: 07/31/2012

Evaluated by: William Gallagher



Date: 07/31/2012

Area Walk-By Checklist (AWC)

AWC # NAI-WB-015

Status Y N U

Location: Bldg. Fuel Building Floor El. 249' Room, Area 7.5/O

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

Minor corrosion at isolated instrument supports, bolts and fasteners including:

- *Unistruts at wall facing bottom of staircase Elev. 249'*
- *Bolts on vertical piping out of 1-PG-P-1A*

These are not seismic concerns.

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

Several overhead suspended lights, judged to be acceptable.

Area Walk-By Checklist (AWC)

AWC # NA1-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

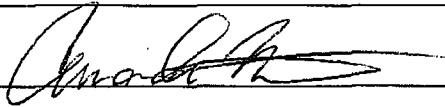
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-101, 103, 104*

Evaluated by: Amanda McEnroe



Date: 7/24/2012

Evaluated by: Daniel J. Vasquez



Date: 7/24/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-016Status Y N U Location: Bldg. FO Pump House Floor El. 271 Room, Area Fuel Oil Pump House**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 # NA1-WB-016

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

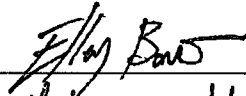
Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists:

NA1-WD-SWEL-016

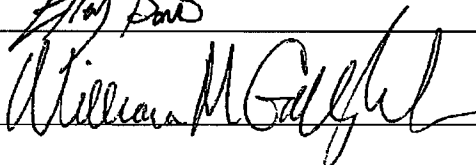
NA2-WD-SWEL-016

Evaluated by: Ellery Baker



Date: 7/23/2012

Evaluated by: William Gallagher, Sr.



Date: 7/23/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-017

Status Y N U

Location: Bldg. Service Building Floor El. 254' Room, Area U1 Chiller 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

All overhead lighting supported by two (2) all thread rods, acceptable.

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 # NA1-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

Insulation storage at corner on the floor will be removed. This insulation is soft and does not present a seismic hazard.

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

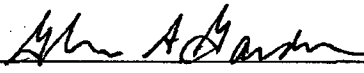
1. H₂ bottles well supported in framework.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-019, 044, 065, 095*

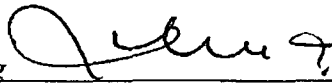
1. Support for 1-HV-F-24 has ~ 1 1/2 thread lack of engagement on lower wall baseplate. This is acceptable by judgment.

Evaluated by: Glenn Gardner



Date: 7/25/2012

Evaluated by: Xuan Hoang



Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-018

Status Y N U

Location: Bldg. Service Building Floor El. 254' Room, Area UI ESGR

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
1TX072N—check fill (cable seen above tray)→Per electrical design: 1TX072N is within the allowable tray fill percentage. Also, cables are non-safety for instrumentation. OK.

Area Walk-By Checklist (AWC)

AWC # NA1-WB-018

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

1. *Emergency light above 01-EE-BKR-15513 - potential interaction concern (long run, unsupported from ceiling)*
2. *Emergency light above 1-EE-MCC-1J1 potential interaction concern*
3. *Emergency light above 1-EI-CB-76*

Appendix B to IPEEE submittal to NRC (May 1997), under miscellaneous walkdowns, fluorescent lights in the Emergency Switchgear rooms were identified as possible seismic interaction concern if they were not properly installed. However, since the lights are of small mass, it was determined that seismic interaction is not a concern even if the cabinets contain essential relays. The emergency lights identified above the two SWEs are bounded by the evaluation of the fluorescent lights and are not considered to be seismic 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
Well supported fire protection lines.

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

1. *Mobile cart behind 1-EI-CB-06B*
2. *CO₂ wheel unit adjacent to 1-EE-MCC-1J1-1 and 1-EE-ST-1J—Height/width ratio borderline, but low center of gravity and wheel chocked. Appears to be approved storage location. Judged acceptable. Same for CO₂ wheel unit near 1-ELT-ES-001.
These mobile CO₂ cars were identified during IPEEE. Resolved to housekeeping procedure, which required chocking wheels.*
3. *Alt OSC storage box secured with 2 bolts to prevent interaction with 1-EE-SS-1J and 1J1. OK.*

Area Walk-By Checklist (AWC)

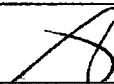
AWC # NA1-WB-018

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)

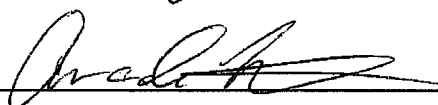
*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-009, 010, 045, 050, 051, 075*

Evaluated by: Daniel J. Vasquez



Date: 7/24/2012

Evaluated by: Amanda McEnroe



Date: 7/24/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-019Status Y N U Location: Bldg. Service Building Floor El. 254' Room, Area UI ESGR – Battery Room 1-IV**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
See Anchorage Question #2 for NA1-WD-SWEL-048

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 # NA1-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
See NA1-WB-023 for disposition of yellow, light weight steps as acceptable per VPAP-0312, "Seismic Housekeeping".

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)

Associated Seismic Walkdown Checklists:

NA1-WD-SWEL-048—provides evaluation and reference for acceptability of fluorescent overhead lighting.

Evaluated by: Amanda McEnroe  Date: 7/24/2012

Evaluated by: Daniel J. Vasquez  Date: 7/24/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-020Status Y N U Location: Bldg. Service Building Floor El. 254' Room, Area U1 IRR**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
Underneath west side door of 1-EI-CB-53, south bay, one screw missing on bottom row of vent plate screws. 15 of 16 installed, not a concern seismically or otherwise (Reference CR 482868).

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
 1. *Overhead fluorescent lights throughout the room, have been previously evaluated as satisfactory per USI A-46 and IPEEE*
 2. *Fire brigade approved equipment storage areas (red/white painted) in accordance with VPAP-0312.*

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

Area Walk-By Checklist (AWC)

AWC # NA1-WB-020

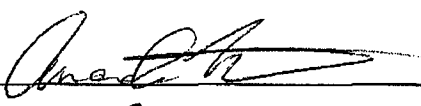
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A


Stored I&C equipment adjacent to 1-EP-CB-28B, secured in accordance with VPAP-0312 to prevent seismic interaction. Equipment stored appropriately in accordance with VPAP-0312 also identified next to 1-EL-CP-7.

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
Crack in wall adjacent to 1-EP-CB-219 previously identified and evaluated following August 23, 2011 seismic event. Several other cracks were also identified, all are considered hairline cracks less than 1/16", which is acceptable per civil structures walkdown/inspection criteria provided in ER-NA-1NS-104. Additionally, these cracks have been previously identified and documented following station-wide inspections that were performed after the August 23, 2011 seismic event and recorded in ETE-NA-2011-0056, Rev. 1. The cracks did not appear to be anything other than surficial hairline cracks < 1/16". Attached map shows approximate crack locations, consistent with previously identified cracks.

Comments (Additional pages may be added as necessary)

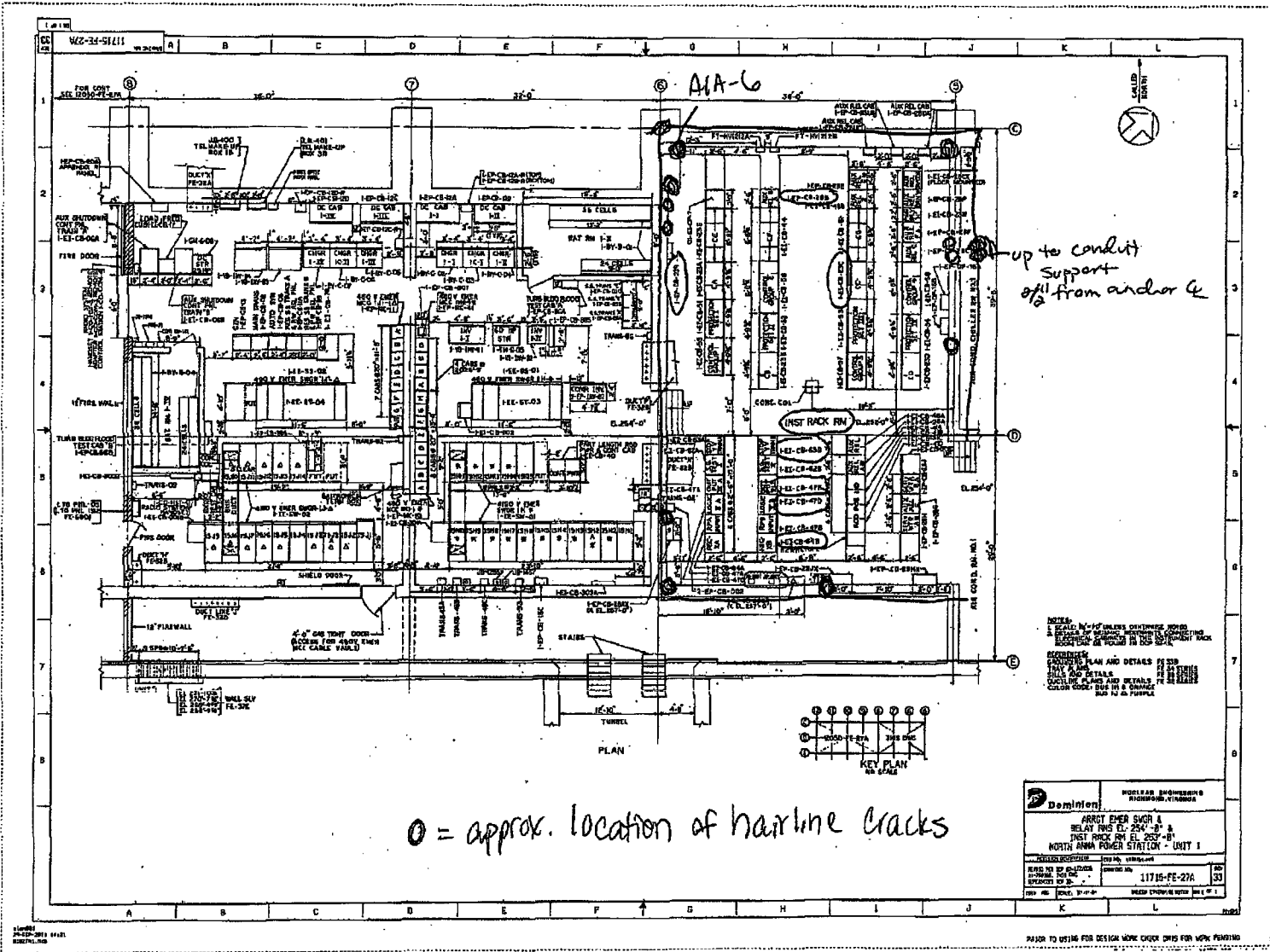
*Associated Seismic Walkdown Checklists:
 NA1-WD-SWEL-077, 080, 081, 082, 084, 085, 090*

Evaluated by: Amanda McEnroe  Date: 7/25/2012

Evaluated by: Daniel J. Vasquez  Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-020



○ = approx. location of hairline cracks

up to conduit support of 1/2 from anchor &

PLEASE TO USING FOR DESIGN WORK CHECK THIS FOR WORK PERFORMING

Area Walk-By Checklist (AWC)

AWC # NA1-WB-025Status Y N ULocation: Bldg. Service Building Floor El. 271' Room, Area 1J 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
See Item #5.

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
Overhead HVAC unit with threaded piping. See Item #6.

Area Walk-By Checklist (AWC)

AWC # NA1-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
1-HV-UH-7C is okay above fuel oil piping 1" (area heating piping). See Photo #1. See discussion in Package NA1-WD-SWEL-006.


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)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-001, 006, 049, 052, 066, 087, 089, 096, 097*

Evaluated by: Glenn Gardner  Date: 7/23/2012

Evaluated by: Xuan Hoang  Date: 7/23/2012

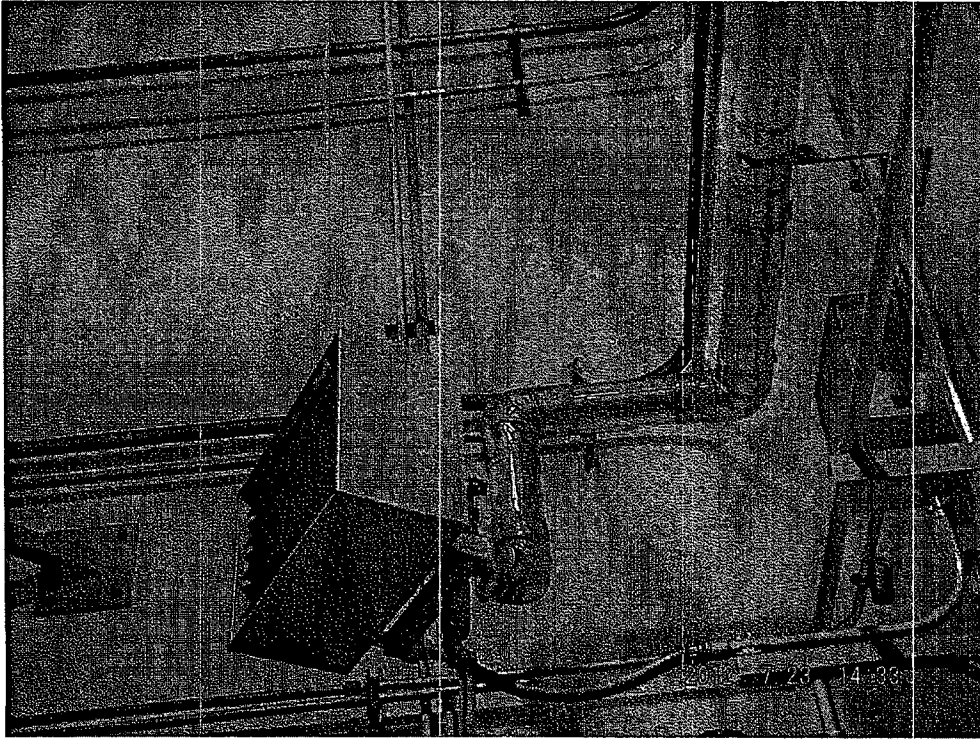


Photo 1

Area Walk-By Checklist (AWC)

AWC # NA1-WB-027

Status Y N U

Location: Bldg. Service Building Floor El. 276' Room, Area UI MCR

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
 - 1) Ladder stored in between vertical boards west of 1-EI-CB-34. CR #483155 submitted to relocate ladder to a more suitable location away from seismically sensitive equipment needed for safe shutdown. Ladder relocated behind NSQ cabinets 2-EI-CB-96A/96B/96C/96D.
 - 2) Computer desk behind 1-EI-CB-13; subsequent review indicates that this cabinet is NSQ and not needed for safe shutdown. Potential interaction is not likely an issue. Similar conclusions were reached for other equipment during IPEEE. Additional information included in CR #483155.

Area Walk-By Checklist (AWC)

AWC # NA1-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

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)

*Associated Seismic Walkdown Checklists:
None*

Evaluated by: Daniel J. Vasquez 

Date: 07/27/2012

Evaluated by: Amanda McEnroe 

Date: 07/27/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-028Status Y N U

Location: Bldg. Service Building Floor El. 276' Room, Area U1 MCR, Logic Room (includes Hathaway Rm, Area Behind Vertical Board, & Computer 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
 1. *Cable raceway ITX300N (nonsafety) and the one above have several concrete inserts at ceiling that appeared "pulled out" from the ceiling. Subsequent review by electrical design engineer indicated that the installation is per design. No seismic concern.*

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
 1. *Above 1-EI-CB-34, there was a bent threaded rod supporting the fluorescent lighting fixture. It would appear as though the rod may have become bent to allow access to the area above. The bent rod remains more than adequate to support the lightweight lighting fixture.*
 2. *In the Hathaway Room, light diffusers overhead were not clipped. No sensitive targets. Refer to AWC # NA2-WB-030 (Question #4).*
 3. *Printer 1-EI-PRNT-21 is unanchored, but is clear of major equipment and sensitive targets; therefore, acceptable.*

Area Walk-By Checklist (AWC)

AWC # NA1-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

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

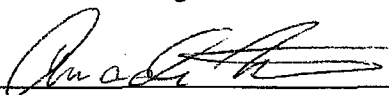
Mobile cart near 1-EI-CB-18C; subsequent review indicates that 1-EI-CB-18C is NSQ, but safety related conduit was also near mobile cart. Therefore, CR 483155 was written which requests tethering the cart to nearby support to limit potential cart movement toward conduit.

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)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-046, 047, 076, 078*

Evaluated by: Daniel J. Vasquez  Date: 7/27/2012

Evaluated by: Amanda McEnroe  Date: 7/27/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-032Status Y N U

 Location: Bldg. Service Building Floor El. 276' Room, Area AC Room #3

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 # NA1-WB-032

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A


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


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

8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U
Block wall has tie plate reinforcing, acceptable.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
 NA1-WD-SWEL-0043*

Evaluated by: Glenn Gardner  Date: 7/26/2012

Evaluated by: Xuan Hoang  Date: 7/26/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-034Status Y N U Location: Bldg. Service Floor El. 291 Room, Area UI MER
Building**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

Found one (1) anchor < 5° angled from perpendicular. Per NAS-1023, bolts are allowed up to 5° from perpendicular. This is satisfactory. Noted multiple duct supports with hole without anchor. This is satisfactory as it is design this way.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

Lights do not have cages. This is acceptable as they will not impact equipment.

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 # NA1-WB-034

5. Does it appear that the area is free of potentially adverse seismic interactions that could cause flooding or spray in the area? Y N U N/A

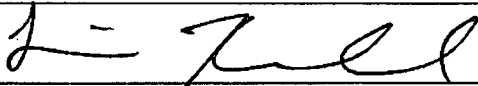
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

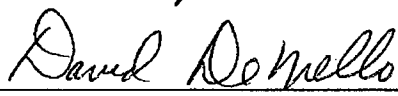
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-028, 042
Area walked down: 35' radius around equipment.*

Evaluated by: Tim Knoebel  Date: 7/25/2012

Evaluated by: David DeMello  Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-036Status Y N ULocation: Bldg. SWPH Floor El. 328 Room, Area SWPH**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

Bolts in close proximity at 2-SW-PT-201A. Conduit support for 2CX216ND and piping support for 6" screenwash pump discharge piping. CR 483595 submitted. Refer to NA2-WD-SWEL-065.

2. Does anchorage of equipment in the area appear to be free of significant degraded conditions? Y N U N/A

Minor rust/corrosion on uncoated anchorages throughout the area at various locations, judged to be okay.

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 suspended light fixtures throughout the SWPH, judged to be okay.*
- *6 rod hung unit heaters were identified throughout the SWPH. These unit heaters are bounded by an evaluation previously performed for IPEEE outlier resolutions and were dispositioned not to be a seismic interaction concern for nearby equipment.*

Area Walk-By Checklist (AWC)

AWC # NA1-WB-036

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

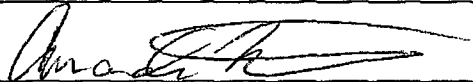
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists:

NA1-WD-SWEL-005, 018, 064 NA2-WD-SWEL-018, 065

Evaluated by: Amanda McEnroe



Date: 8/1/2012

Evaluated by: Daniel J. Vasquez



Date: 8/1/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-037Status Y N ULocation: Bldg. SWVH Floor El. 328 Room, Area SWVH**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 # NA1-WB-037

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)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-036, 072 NA2-WD-SWEL-005, 038
Entire SWVH, all elevations except eastern lower level.*

Evaluated by: Tim Knoebel



Date: 8/1/2012

Evaluated by: David DeMello



Date: 8/1/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-038Status Y N ULocation: Bldg. UI AFWPH Floor El. 271 Room, Area UI AFWPH Motor Driven**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
Comment #1 page 3.

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
1-HV-UH-46A rod hung about 18" long, adjacent unistrut (office check). See Comment #5.

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 # NA1-WB-038

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 Comment #2.
-
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
One bolt is loose at 1DK0180C1 (out of ~ 6). Junction box JB-1573 near conduit label 1DK0180C1. Documented in CR 482691. This is not a significant seismic condition. See comment #3, page 3.
-

Area Walk-By Checklist (AWC)

AWC # NA1-WB-038Comments (Additional pages may be added as necessary)*Associated Seismic Walkdown Checklists:**NA1-WD-SWEL-013, 022, 059, 060, 061**Rust on CST manway bolts superficial, no issue.*

1. *A unistrut conduit support frame has a baseplate that has one uninstalled bolt location (see Photo 1). The baseplate has provision for three bolts and one two are installed. The third location has a hole drilled but no installed bolt. The base plate is painted over and there is no indication that the bolt was ever installed. This is judged to be the final accepted design conditions, but no documentation for this unistrut frame could be identified, so it is assessed for its acceptability here. The baseplate anchors a vertical leg of a unistrut frame; the horizontal member of the frame supports several vertical conduit of various sizes ≤ 4 " diameter, identified as 1CK997PA, 1CX997NE, etc. The other vertical size of the unistrut frame is anchored to a similar baseplate for which all three bolts locations are installed. The conduit is supported at other supports, and the frame in question is only one portion of a contiguous system. The loading on the frame is judged to be low because the location is at ground level and would not see much more than ground response seismic input. Direct pullout loading on the baseplate would be minimal because of the predominant deadweight load. The existing two bolts on the subject baseplate together with the fully populated baseplate are therefore judged to be adequate for seismic support of the conduit.*
2. *Loose tool box on floor ("operations tool box") on blue pad near 1-CN-LT-100A (see Photo 2). Slide of box would pass underneath drain 1-KW-1CV-3348 with small clearance. Not considered to be an interaction. See Photo 1.*
3. *WAPD-R-29 and WAPD-1-601-Q3: -4-bolt baseplate is missing 1 bolt location that is not installed. This is the final design, evaluated in Calculation 14938.74-NPB-ZB-013 and is acceptable.*
4. *Very minor corrosion of floor mounted unistrut anchorage near CST. Not a significant condition.*
5. *Overhead area heating Unit 1-HV-UH-46A is rod hung from two threaded rods each about 18" long, attached to ceiling anchorage. The unit is roughly cubic and about 18" in each dimension. It is electric, and its outer shell is sheet metal; its weight is judged to be < 50 lbs. The threaded rods are considered sufficient to prevent the unit from falling on equipment below, but the unit will sway during a seismic event. An adjacent unistrut conduit support framework is approximately 2" away from a cable connection to the heater. The shortthreaded rods supporting the heater will prevent large displacements of the heater. If there is contact between the heater cable connection and the unistrut, it is judged that no significant damage to double channel unistrut will result. No sensitive equipment is attached to the unistrut, only conduit and small bore piping.*

Evaluated by: Glenn GardnerDate: 7/24/2012Evaluated by: Xuan HoangDate: 7/24/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-038

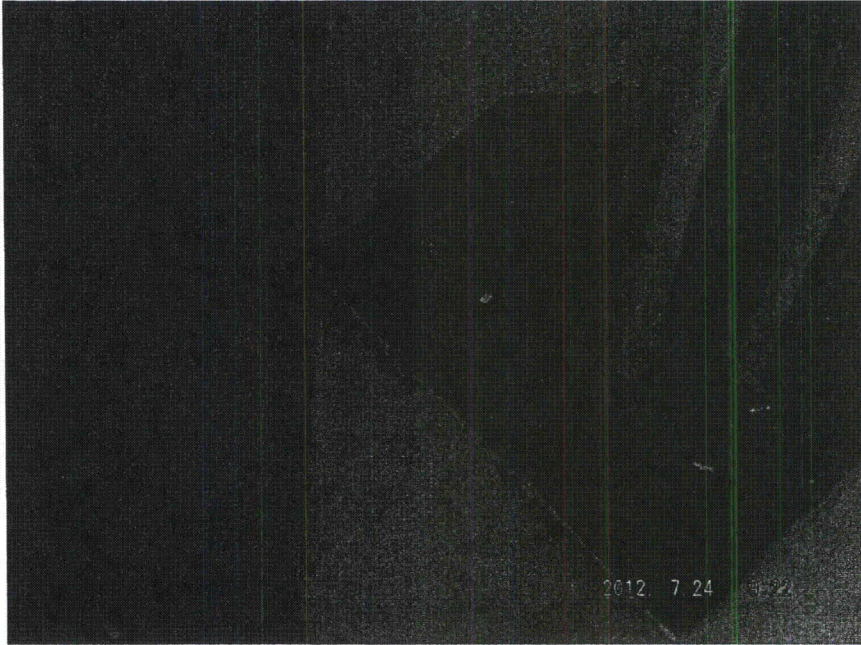


Photo 1

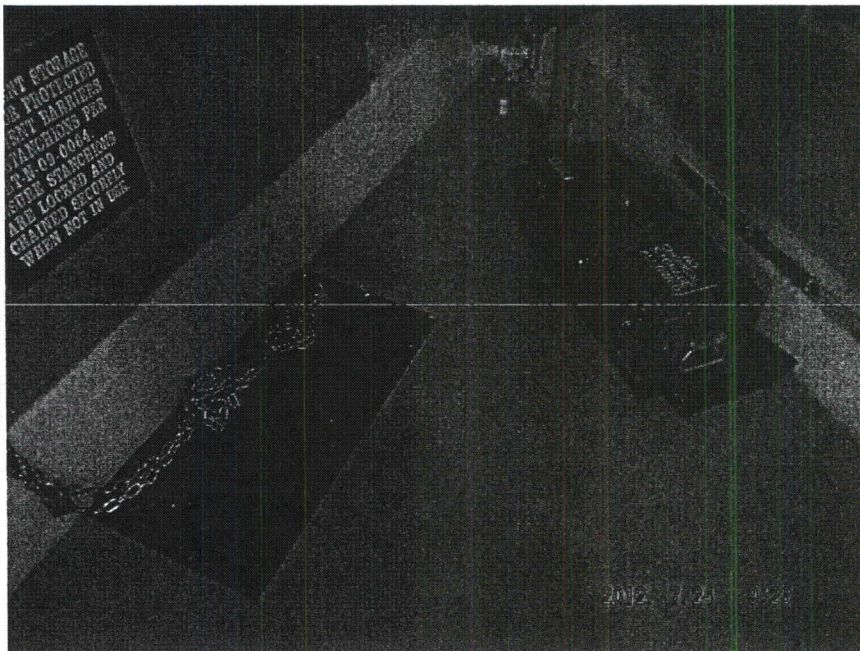


Photo 2

Area Walk-By Checklist (AWC)

AWC # NA1-WB-043

Status Y N U

Location: Bldg. U1 MSVH Floor El. 271' Room, Area U1 MSVH 272'

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 # NA1-WB-043

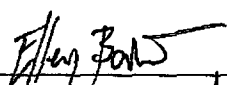
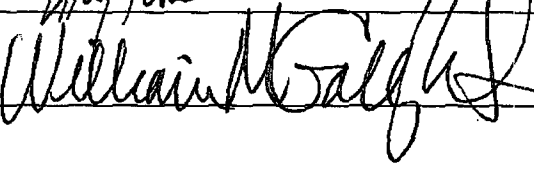
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

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)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-027*

Evaluated by: Ellery Baker  Date: 7/30/2012
Evaluated by: William Gallagher  Date: 7/30/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-044Status Y N ULocation: Bldg. UI MSVH Floor El. 282' Room, Area UI MSVH 282'**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 # NA1-WB-044

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

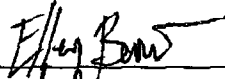
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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)

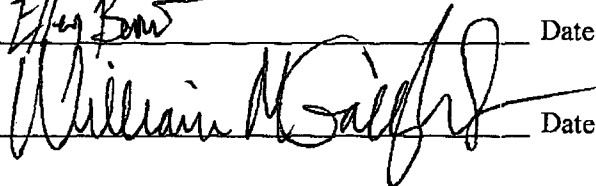
Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-026

Evaluated by: Ellery Baker



Date: 7/30/2012

Evaluated by: William Gallagher



Date: 7/30/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-045

Status Y N U

Location: Bldg. UI QSPH Floor El. 256' Room, Area UI QSPH 256'

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

Noted that for the line with valve 1-SW-MOV-114A, there was a location where a potential floating support existed; isometric to be checked. Further review of isometric 11715-ECI-105N indicated no support at this location; therefore acceptable as is.

Area Walk-By Checklist (AWC)

AWC # NA1-WB-045

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

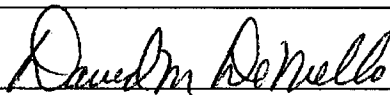
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U


Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists:

NA1-WD-SWEL-038, 041

Walkdown area extended from the RB wall to the nearest walls to the west, north, and east.

Evaluated by: David M. DeMello  Date: 7/23/2012

Evaluated by: Tim Knoebel  Date: 7/23/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-046

Status Y N U

Location: Bldg. UI QSPH Floor El. 271' Room, Area UI QSPH 272'

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
Noted that one conduit support along the west wall has a broken or missing anchor, judged to be insignificant relative to potential seismic interaction (see Photo 1).

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
Noted one ductwork hanger rotated and near the end of ductwork (see Photo 2). CR # 482584 written to document this field condition. Two instances of sagging in ductwork, observation only, no further evaluation required (see Photos 3 and 4). Beam clamp, as opposed to a weld, is supporting cantilever angle iron which supports nonsafety-related HVAC ductwork (see Photo 5). CR # 482589 written to document field condition. Note that the potential failure of the supports/ductwork would not result in any adverse seismic impact.

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 # NA1-WB-046

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)

Associated Seismic Walkdown Checklists:

NA1-WD-SWEL-017, 058

Area walkdown included all of the Quench Spray Housing Room at Elevation 272'-0".

Evaluated by: David M. DeMello *David M DeMello* Date: 7/23/2012

Evaluated by: Tim Knoebel *T. Knoebel* Date: 7/23/2012

AWC#: NA-WB-046

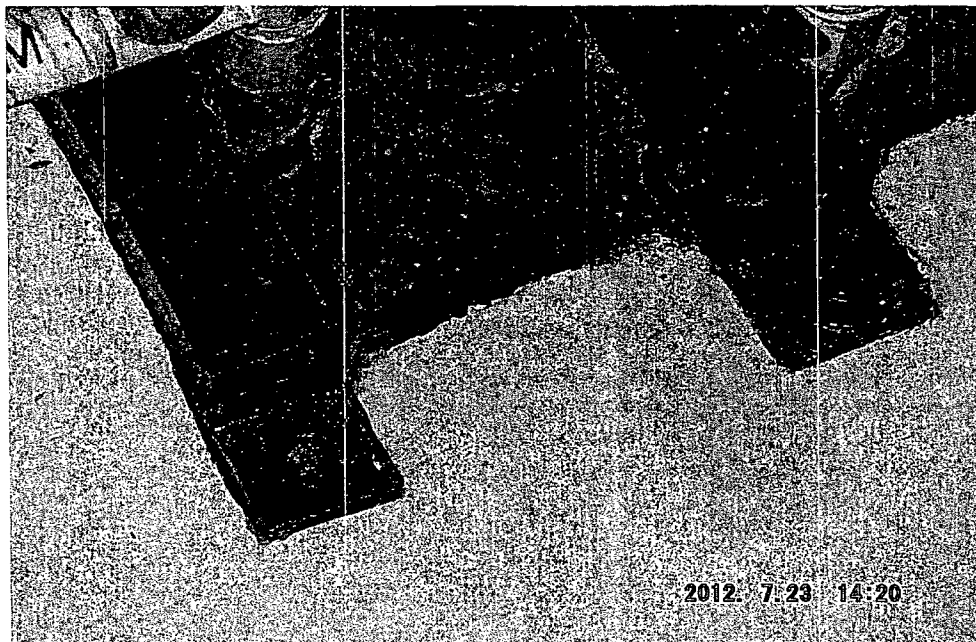


Photo 1

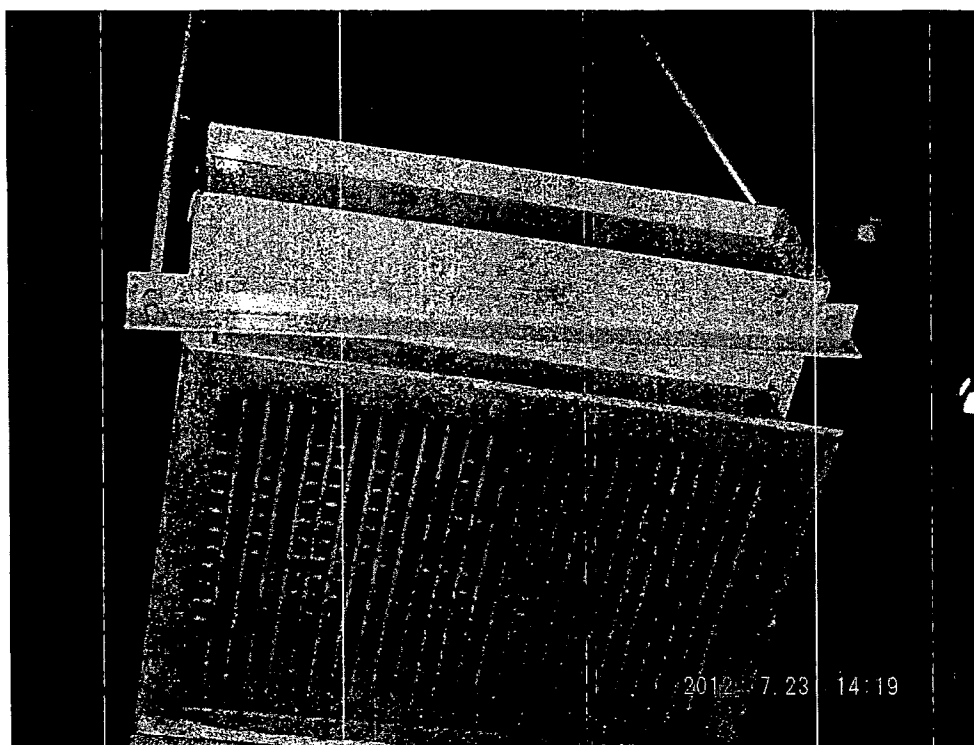


Photo 2

AWC#: NA1-WB-046

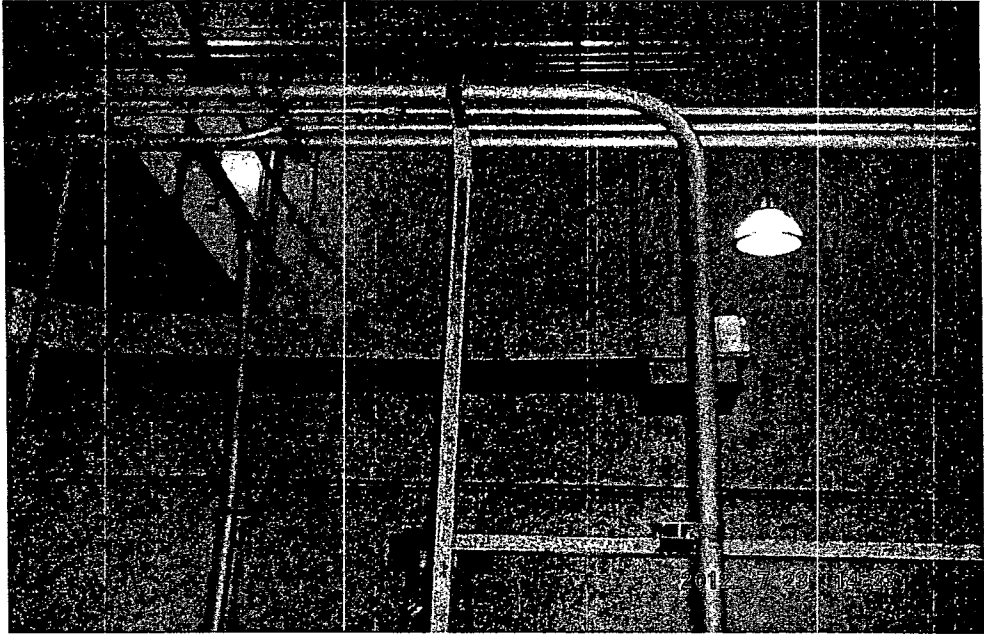


Photo 3



Photo 4

AWC#: NA1-WB-046

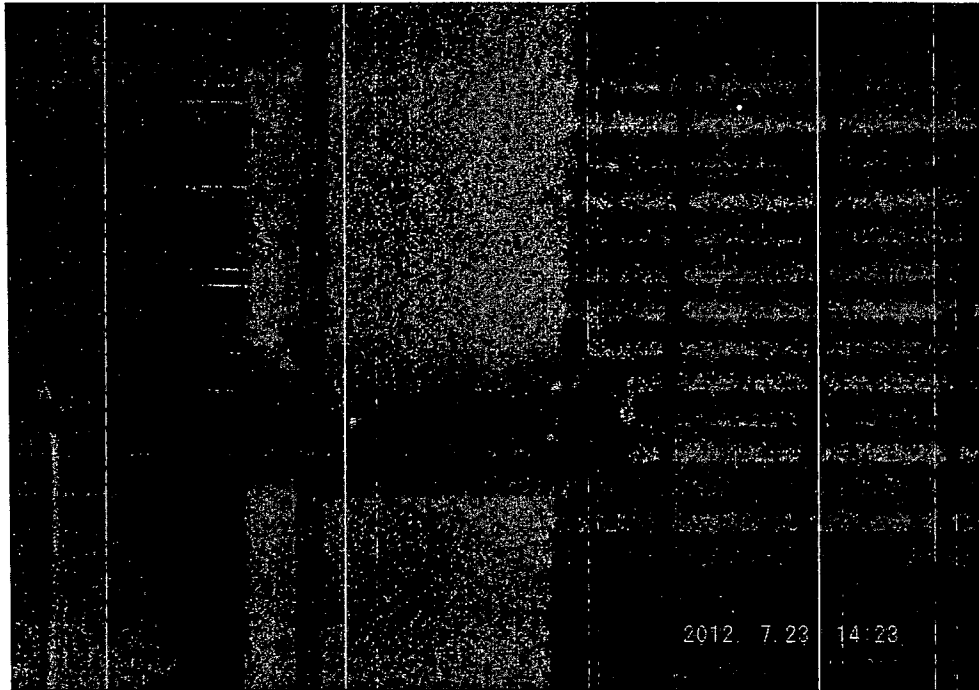


Photo 5

Area Walk-By Checklist (AWC)

AWC # NA1-WB-047Status Y N U

 Location: Bldg. UI Floor El. 256 Room, Area "B" Outside RS Pump Cubicle
Safeguards

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 # NA1-WB-047

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)

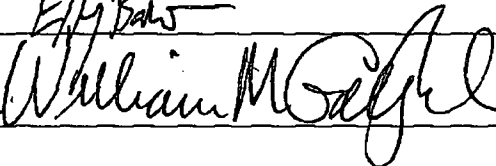
*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-021, 100*

Evaluated by: Ellery Baker



Date: 07/24/2012

Evaluated by: William Gallagher



Date: 07/24/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-048Status Y N U Location: Bldg. UI Floor El. 256' Room, Area "B" SI Pump Cubicle
Safeguards**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 # NA1-WB-048

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

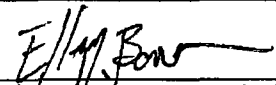
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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)

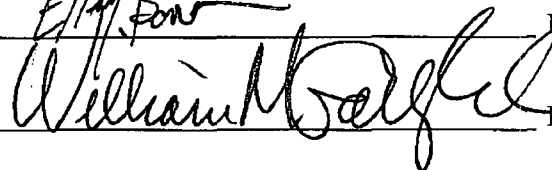
*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-020*

Evaluated by: Ellery Baker



Date: 7/25/2012

Evaluated by: William Gallagher



Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-049Status Y N ULocation: Bldg. UI Floor El. 267' Room, Area UI Safeguards - 267'
Safeguards**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 # NA1-WB-049

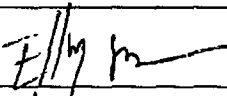
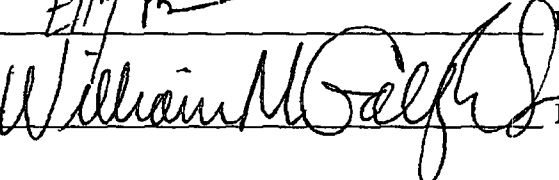
6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

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
None.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-039*

Evaluated by: Ellery Baker  Date: 7/24/2012
Evaluated by: William Gallagher  Date: 7/24/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-050Status Y N ULocation: Bldg. UI Yard Floor El. 271 Room, Area Casing Cooling Tank**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
In yard, no ductwork/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
In yard, nothing within 35'.

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 # NA1-WB-050

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

There are some portable temporarily stored racks approximately 23' away, but no potential adverse impact.

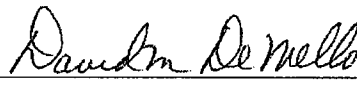
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U


Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists:

NA1-WD-SWEL-068

Walkdown area extended approximately 35 feet in all directions from the transmitter, except to the side with tanks.

Evaluated by: *David M. DeMello*  Date: 7/23/2012

Evaluated by: *Tim Knoebel*  Date: 7/23/2012

Area Walk-By Checklist (AWC)

AWC # NA1-WB-051Status Y N ULocation: Bldg. U1 Yard Floor El. 271 Room, Area RWST and Chem Add Tank**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 # NA1-WB-051

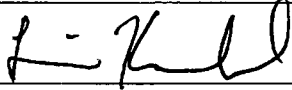

6. Does it appear that the area is free of potentially adverse seismic interactions that could cause a fire in the area? Y N U N/A

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

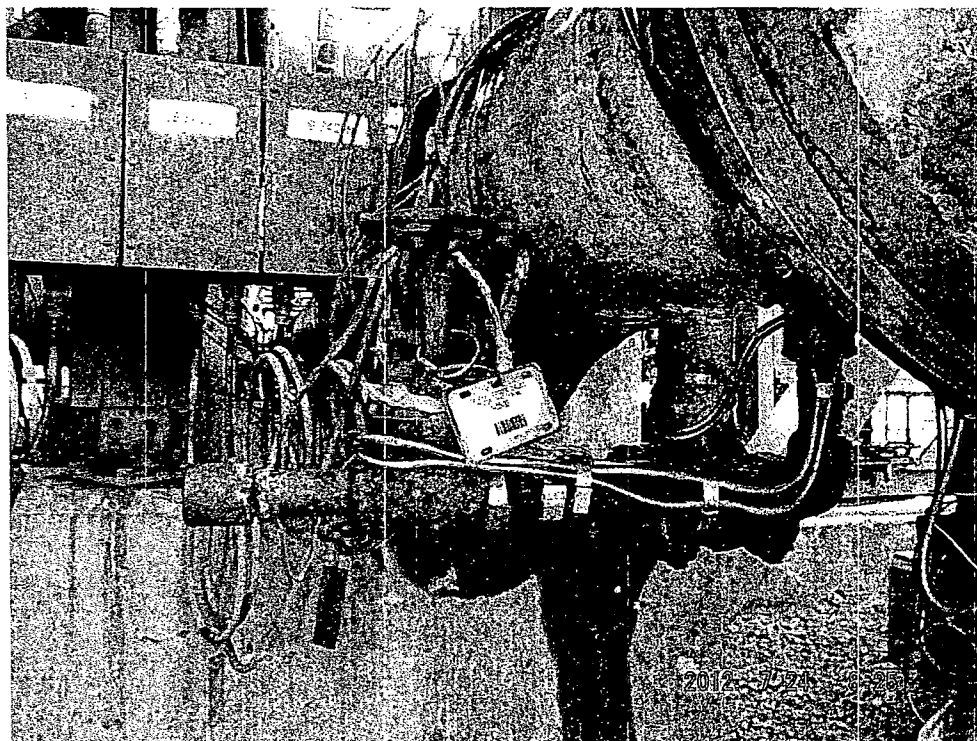
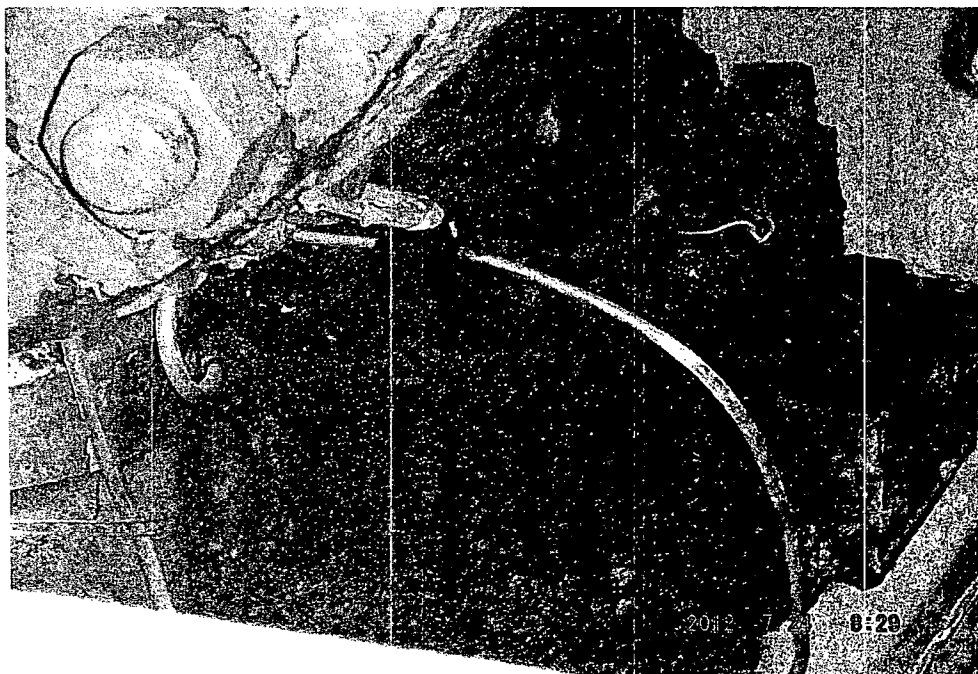
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

Comments (Additional pages may be added as necessary)

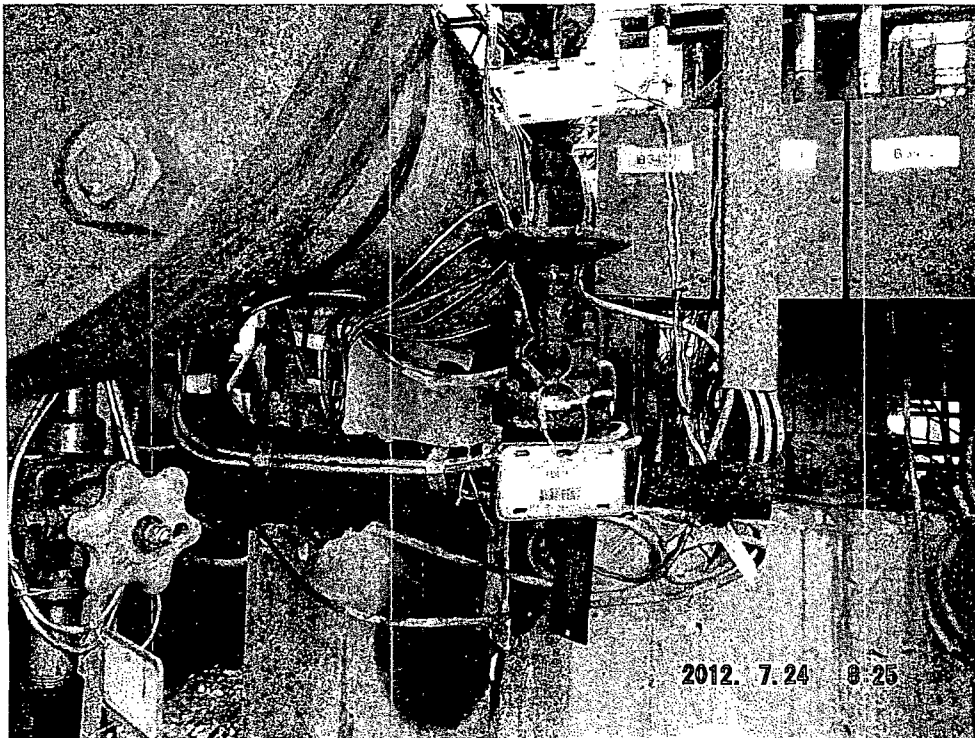
*Associated Seismic Walkdown Checklists:
NA1-WD-SWEL-057, 067, 099
Noted corrosion on Valve 1-CD-35, later confirmed CR 468942 was written (4/13/2012) to address this condition. Noted corrosion on drain lines from 01-CD-E-2A and -2B. CRs 468775 and 468777 previously identified this issue. Walkdown was a 35' radius from 1-QS-LT-101 and 1-QS-LT-100A, except in the direction of the Chemical Add tank and RWST, respectively. See attached photos.*

Evaluated by: Tim Knoebel  Date: 7/24/2012
Evaluated by: David M. DeMello  Date: 7/24/2012

AWC#: NA1-WB-051



AWC#: NA1-WB-051



Appendix F

Unit 2 Area Walk-by Checklists

(60 pages)

Area Walk-By Checklist (AWC)

AWC # NA2-WB-003

Status Y N U

Location: Bldg. Auxiliary Building Floor El. 244' Room, Area U2 Penetration Area - 11-12/J

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 # NA2-WB-003

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-028, 029, 030, 031, 034*

Area walked consisted of Unit 2 penetration area north of Column J to the wall at Column Line 10 1/2 to the east and the wall at Column Line F to the north.

Evaluated by: David DeMello *David DeMello* Date: 7/25/2012

Evaluated by: Tim Knoebel *T. Knoebel* Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-003

Comments (continuation page)

Area Walk-By Checklist (AWC)

AWC # NA2-WB-004

Status Y N U

Location: Bldg. Auxiliary Building Floor El. 244' Room, Area U2 Penetration Area – 12/N

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 # NA2-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

Noted that lines 1"-SI-413-602-Q2 and 1"-SI-412-1502-Q3 were supported at valve 2-SI-45 by a piece of unistrut. This was not a designed support, the piping was just resting on the unistrut being used to support some conduits. CR 482917 was generated to document this issue. This will not affect the ability of the pipe to perform its design function. See Photos 1 and 2.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-054*

Area consisted of Unit 2 Penetration Area south of Column J to the wall at Column Line 10 ½ to the east.

Evaluated by: Dave DeMello *David DeMello* Date: 7/25/2012

Evaluated by: Tim Knoebel *Tim Knoebel* Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-004

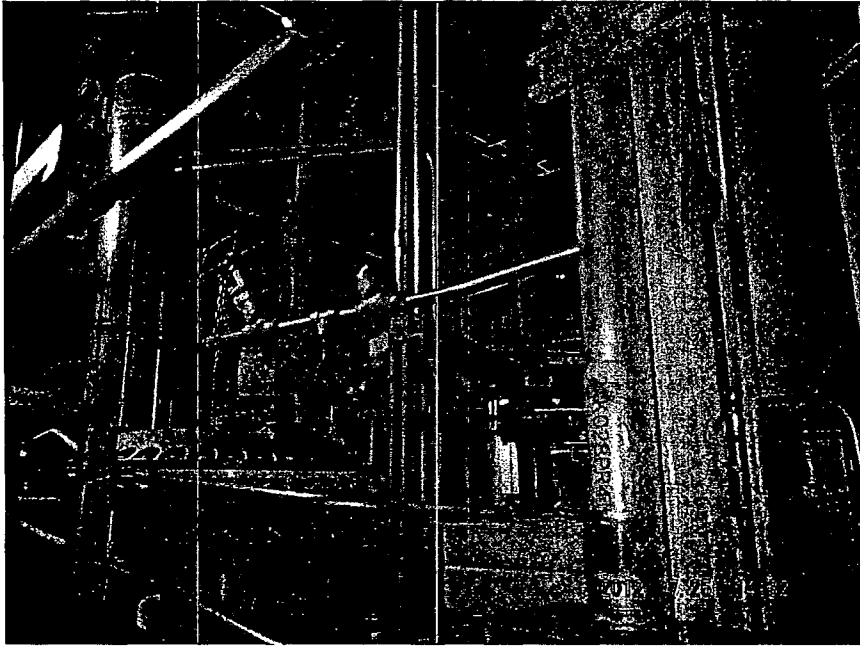


Photo 1

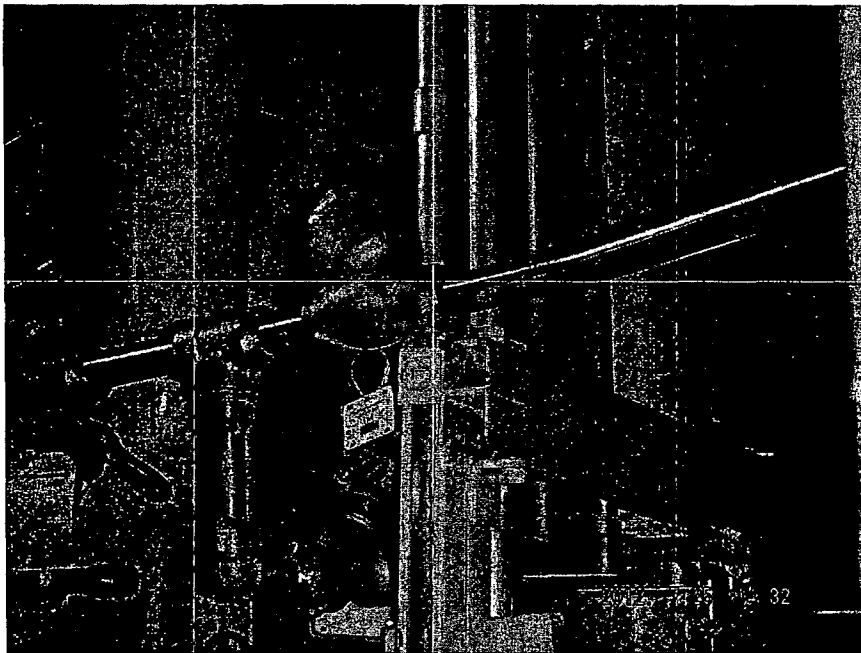


Photo 2

Area Walk-By Checklist (AWC)

AWC # NA2-WB-008Status Y N ULocation: Bldg. Auxiliary Building Floor El. 244' Room, Area U2 "A" Charging Pump 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
Noted unused unistrut support at back wall of cube—Appears to be meant to support adjacent conduit, but conduit is supported satisfactorily—no concerns.

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
All lights in area are not chained, but free to pivot—not a seismic concern.

Area Walk-By Checklist (AWC)

AWC # NA2-WB-008

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

Noted permanent shielding has loose straps. Not a seismic concern but should be corrected. CR 482856 written to address.

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)

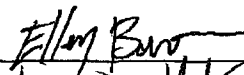
Associated Seismic Walkdown Checklists:

NA2-WD-SWEL-013, 032

Noted coating on flex conduit pulled away from termination at a few MOVs—not a seismic or functionality concern.

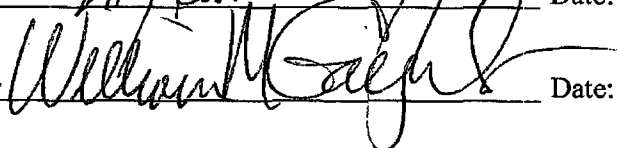
CH-P skid has multiple oil deposits—not a seismic or functionality concern.

Evaluated by: Ellery Baker



Date: 7/25/2012

Evaluated by: William Gallagher



Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-010Status Y N U Location: Bldg. Auxiliary Floor El. 259 Room, Area U2 Cable Vault
Building**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

Noted conduit supports missing anchor for several supports. Acceptable due to minimal load and sufficient lateral restraints for the supports. Similar situation was observed in Unit 1 Cable Vault, see CR 482689. CR 483114 written to document this issue on Unit 2.

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

Lights do not have cages to catch light bulbs, no interactions.

Area Walk-By Checklist (AWC)

AWC # NA2-WB-010

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

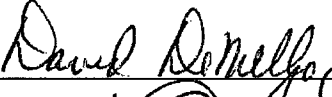
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U


Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists:

NA2-WD-SWEL-056, 057

U2 Cable Vault, 35' radius from equipment up to surrounding walls.

Evaluated by: David DeMello  Date: 7/27/2012

Evaluated by: William Gallagher  Date: 7/27/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-013Status Y N ULocation: Bldg. Auxiliary Building Floor El. 280' Room, Area U2 Rod Drive 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
Conduit is grouped laterally for much of its lateral rigidity. Need to confirm documentation to ensure this was the intent; CR 482991 submitted.

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 # NA2-WB-013

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

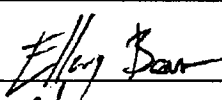
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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

Comments (Additional pages may be added as necessary)

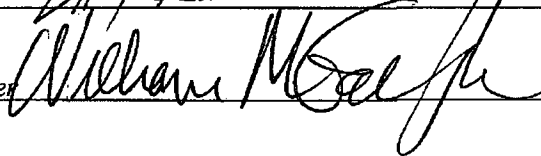
*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-007, 008, 012, 085*

Evaluated by: Ellery Baker



Date: 7/25/2012

Evaluated by: William Gallagher



Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-021

Status Y N U

Location: Bldg. Service Building Floor El. 254' Room, Area U2 Chiller 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
Tie wrapped lamp fixtures—okay.

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

Large bore drain piping in overhead 6" diameter and 4" diameter and 3" diameter are bell and spigot connected. About 5' from ceiling, rod hanger hung. No lateral support. Several sections have two (2) supports per segment but not all. See photo and Comment #1 which concludes this piping will not adversely impact equipment below.

Area Walk-By Checklist (AWC)

AWC # NA2-WB-021

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

Drain piping-see Item #4. No flooding expected since piping is unpressurized and not connected to large water inventory. Some minor leakage expected. This will be acceptable.

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-019, 045, 066, 095*

See comments on continuation page.

Evaluated by: Glenn Gardnes  Date: 7/25/2012

Evaluated by: Xuan Hoang  Date: 7/25/2012

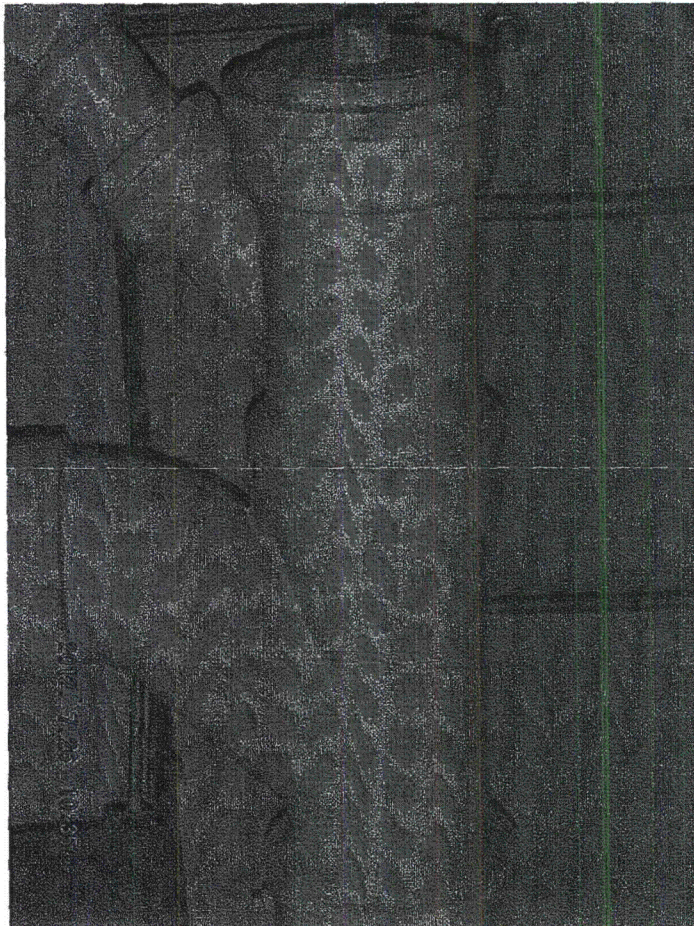
Area Walk-By Checklist (AWC)

AWC # NA2-WB-021Comments (continuation page)

1. *An initial evaluation determined that the cast iron piping has multiple supports and that the leaded joints provide substantial strength. If overloaded, the joints capture the pipe and would have to separate by significantly more than 1 inch to cause complete separation. A qualitative evaluation of this potential identified the most likely 'weak link' joints and it was determined by engineering judgment that either insufficient pullout force would be developed for that joint, or a sufficient configuration of hanger supports exist at these locations to prevent the piping from impacting plant equipment below. Therefore, during a seismic event the cast iron drain piping will have no adverse impact on the safety related equipment in the chiller room or its ability to perform its design function.*

Flooding issues due to leakage of this piping are precluded because it is drain piping, is not pressurized, and has no reservoir of sufficient volume to cause flooding.

See CR 483127.



Area Walk-By Checklist (AWC)

AWC # NA2-WB-022Status Y N ULocation: Bldg. Service Building Floor El. 254' Room, Area U2 ESGR**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
Unistrut conduit support frame appears to get lateral rigidity from the stiffness of the larger bore conduit; see CR 482991.

Area Walk-By Checklist (AWC)

AWC # NA2-WB-022

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-009, 011, 047, 051, 052, 075, 084, 092*

Evaluated by: Ellery Baker  Date: 07/29/2012

Evaluated by: William Gallagher  Date: 07/29/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-023Status Y N ULocation: Bldg. Service Building Floor El. 254' Room, Area U2 ESGR Battery Room 2-II**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 NA2-WD-SWEL-049 for battery anchorage inspections.

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 lights appear adequately secured to the ceiling. Reference IPEEE submittal to NRC (1997) for additional information about fluorescent light evaluation (Section VII, Misc. Issues).

Area Walk-By Checklist (AWC)

AWC # NA2-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

Electrical penetrations have fire proofing material filling openings around cables.

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

Yellow, lightweight portable steps previously evaluated for seismic housekeeping.

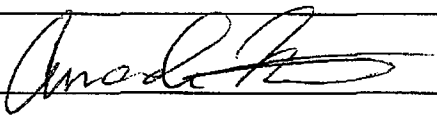
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

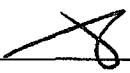
1. Crack in SW corner on the wall
2. Crack in NE corner on the wall
3. Crack near wall-mounted conduit on east wall
4. Crack along floor/wall interface on south and east sides of the room

All cracks previously evaluated following 8/23/2011 seismic event.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-0049*

Evaluated by: Amanda McEnroe  Date: 7/30/2012

Evaluated by: Daniel J. Vasquez  Date: 7/30/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-024Status Y N U

Location: Bldg. Service Building Floor El. 254' Room, Area U2 IRR

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

East wall, overhead bottom angle of unistrut support adjacent to corner Ca 10, lower left (south) anchor is a thread or two shy of the bolt being flush with the nut. Both SWEs judge this support to be adequate to support its associated run of unistrut.

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

- *Rod hung overhead fluorescent lights, previously evaluated on SEWS form associated with the SWEL items in this room as acceptable*
 - *Noted that some lights are secured inside the fixtures with tie-wraps.*
- *The rod hung fluorescent lights are bounded in the overhead with unistruts and conduit to restrict possible displacement to a minimum.*

Area Walk-By Checklist (AWC)

AWC # NA2-WB-024

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
DB line (associated with 2-DB-326 and 2-DB-328 isolation valves) enters Unit 2 IRR on west wall; the line is well supported.

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
Fire lines in overhead appear to be well supported.


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
Equipment stored on north wall (table, cart, toolbox) tied off in accordance with VPAP-0312.

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)

*Associated Seismic Walkdown Checklists:
 NA2-WD-SWEL-0078, 081, 082, 083, 086, 087*

Evaluated by: Daniel J. Vasquez  Date: 7/26/2012

Evaluated by: Amanda McEnroe  Date: 7/26/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-026Status Y N ULocation: Bldg. Service Building Floor El. 271' Room, Area 2H 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
 1. *2-EC-B-02B space heater addressed in SEWS for NA2-WD-SWEL-50.*
 2. *Unit heater 57B with drain valve 2-HV-2003, hung with two (2) rods. Lateral restrain provided by welded water piping (see photo). Acceptable.*

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 # NA2-WB-026

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)

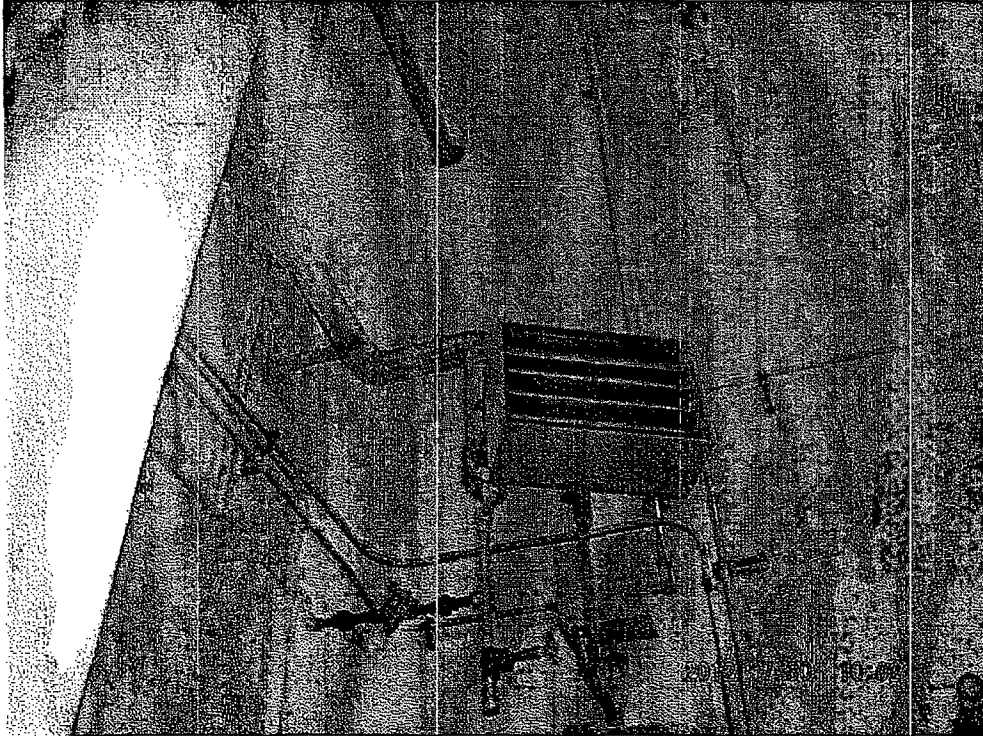
*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-001, 006, 050, 053, 067, 089, 091, 096, 097*

Evaluated by: Glenn Gardner  Date: 7/30/2012

Evaluated by: Xuan Hoang  Date: 7/30/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-026



Area Walk-By Checklist (AWC)

AWC # NA2-WB-029Status Y N ULocation: Bldg. Service Building Floor El. 276' Room, Area U2 MCR (includes area behind vertical board)**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
 1. *Behind vertical board, crack on SW corner of Class 1 block wall.*
 2. *Crack at 2-EP-CB-552 in corner.*

These were identified and evaluated during walkdowns after 8/23/2011 earthquake.
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
 1. *Conduit 2CC955RD hard against two bolts extending from the west side block wall behind the Unit 2 vertical boards. Not a seismic concern for conduit. Subsequent discussion with electrical design engineer indicates not an electrical concern either.*
 2. *Above 2-EI-CB-24, unistrut hard against back side of vertical board. Unistrut did not appear to be supported. No concern for span, since adjacent unistrut supports judged adequate. No excessive span lengths identified; therefore okay.*
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
 1. *File cabinet at west side of 1-EI-CB-49E, possible interaction with 2-RM-270, -271, -272. → Subsequent review indicates that 1-EI-CB-49E and these radiation monitors are all NSQ. This equipment is not on the SSEL and is not needed for safe shutdown. Potential seismic interactions are therefore not likely an issue.*
 2. *Coat cabinet on west side of 2-EI-CB-96D. Subsequent review indicates that the 2-EI-CB-96D is NSQ, not on the SSEL and not needed for safe shutdown. Potential seismic interactions are therefore not likely an issue.*
 3. *Unistrut beam clamps used for conduit supports behind vertical board—by design.*

Area Walk-By Checklist (AWC)

AWC # NA2-WB-029


- 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

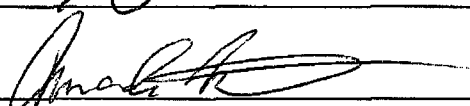
Ladder stored in between Unit 1 and Unit 2 vertical boards resting on 1-EI-CB-34. See AWC # NA1-WB-027 and CR 483155 for relocation and disposition discussion.

- 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
Junction box south of 2-EP-CB-4C missing one (1) of eleven (11) fastener screws on cover panel—not a seismic concern since the remaining ten (10) screws are more than adequate to secure the cover panel.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL- 077, 080*

Evaluated by: Daniel J. Vasquez  Date: 7/27/2012

Evaluated by: Amanda McEnroe  Date: 7/27/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-030

Status Y N U

Location: Bldg. Service Building Floor El. 276' Room, Area U2 MCR, Computer 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
 1. *Mobile cart with computer and monitor (flux mapping equipment), with unlocked wheels and not tethered. Adjacent to 2-EP-CB-121B and -121A (safety-related equipment). The cart was moved to another location, issue resolved.*
 2. *Two display monitors atop 2-EI-CB-18F not secured, adjacent to 2-EP-CB-121B and -121A (safety-related equipment).*
 3. *Hard hat rack at north end of room—possible interaction with 2-EP-CB-4A and -4B—violates clearance distance. Relocated to better area. Issue resolved.*

CR 483155 was submitted to document all seismic housekeeping concerns (items 1, 2, and 3).

4. *Light diffuser panels not clipped in Computer Room. Clips were installed during IPEEE in the Main Control Room area to protect Operators from injury (ET CEM 99-0019). No clips were specified in the computer or logic room areas.*

Area Walk-By Checklist (AWC)

AWC # NA2-WB-030

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

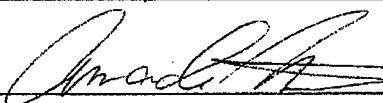
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A
See Question #4.

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-048, 076, 088*

Evaluated by: Daniel J. Vasquez  Date: 7/27/2012

Evaluated by: Amanda McEnroe  Date: 7/27/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-033Status Y N U

Location: Bldg. Service Building Floor El. 276' Room, Area AC Room #4

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 # NA2-WB-033

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

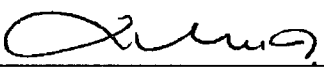
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A
Vacuum cleaner okay

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
Block walls reinforced with tie plates, acceptable.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
 NA2-WD-SWEL-044*

Evaluated by: Glenn Gardner  Date: 7/26/2012

Evaluated by: Xuan Hoang  Date: 7/26/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-035

Status Y N U

Location: Bldg. Service Building Floor El. 291 Room, Area U2 MER

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 # NA2-WB-035

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-026, 043
Area walked down: 35' radius around equipment.*

Evaluated by: Tim Knoebel  Date: 7/25/2012

Evaluated by: David DeMello  Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-052

Status Y N U

Location: Bldg. U2 AFWPH Floor El. 271 Room, Area Motor Driven

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 # NA2-WB-052

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

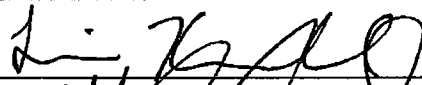
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-025, 035, 061, 063*

Evaluated by: Tim Knoebel



Date: 7/27/2012

Evaluated by: William Gallagher



Date: 7/27/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-053Status Y N ULocation: Bldg. U2 AFWPH Floor El. 271 Room, Area Turbine Driven**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 # NA2-WB-053

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

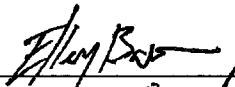
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-010, 014, 046, 062, 090*

Evaluated by: Ellery Baker



Date: 7/23/2012

Evaluated by: William Gallagher, Sr.



Date: 7/23/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-054Status Y N ULocation: Bldg. U2 Floor El. 216' Room, Area 4-9
Containment**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

Minor corrosion only

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

Blue, light weight flexible hose not a concern, is secured adequately.

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

Threaded rod hung overhead lights ok. Not a credible interaction concern.

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

Analyzed piping inside containment, not flooding concerns.

Area Walk-By Checklist (AWC)

AWC # NA2-WB-054

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

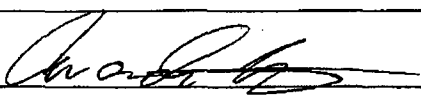
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

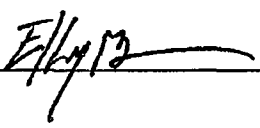
HP stanchions not a concern (next to "D" RS Cooler).

Step ladder stored flat on pedestal across from 2-RS-E-IC, stored on a safe configuration.

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: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Area Walk-By Checklist (AWC)

AWC # NA2-WB-055Status Y N U

Location: Bldg. U2 Floor 244' Room, Area Pipe Penetration Area
Containment El.

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 page 3 for additional comments)

All RS cooler anchor bolts have at least 1 nut and washer. Some have 2 nuts; anchor is not at least flush with top nut. All bolts have full thread engagement with at least one nut.

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

Threaded rod hung lights on the overhead are not credible interaction concerns for SR SSCs.

Area Walk-By Checklist (AWC)

AWC # NA2-WB-055

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
Analyzed piping inside containment, not flooding concern.

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

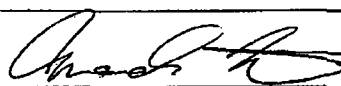
7. Does it appear that the area is free of potentially adverse seismic interactions associated with housekeeping practices, storage of portable equipment, and temporary installations (e.g., scaffolding, lead shielding)? Y N U N/A

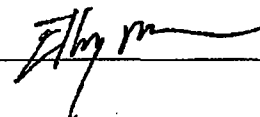
(See next page for additional comments)
 - Lead blanket storage box next to column 1 has H:W ratio < 2:1 and sufficient safe standoff distance from SR SSCs
 - 55 gal drums inherently stable per VPAP -0312 "Seismic Housekeeping".

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)

See page 3 for additional comments

Evaluated by: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Area Walk-By Checklist (AWC)

AWC # NA2-WB-055Comments (continuation page)*(Continued from Question 1)**- Some gaps 1/8" to 3/16" exist at anchor bolts for RS Coolers**2-RS-E-ID - 3 bolts with gaps**2-RS-E-1C - 1 bolt with gap**2-RS-E-1B - 2 bolts with gaps**2-RS-E-1A - no gaps*

All bolts appear to have been painted/coated over for a while. The bolts and vertical support are about half way up the height of the coolers, and lateral seismic braces are located at the bottom and top of each cooler. This configuration is not likely to experience overturning. All bolts have full thread engagement with at least one nut. The support is flush with the floor at the 241' elevation of containment for each cooler, providing the design vertical support for these components. These small gaps are judged to be acceptable.

(Continued from question 7)

- Scaffold storage boxes located between columns 8 and 9 have H:W ratios about equal to 2:1, and they contain scaffolding inside that is subject to displacement within these boxes. The boxes were placed as part of DCP 04-109 in locations judged to be safe from interaction with SR SSCs. No concerns with these scaffold boxes.

Area Walk-By Checklist (AWC)

AWC # NA2-WB-057Status Y N U

Location: Bldg. U2 Floor 308' Room, Area Pressurizer Cubicle
Containment El.

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
 - *No cable raceways*
 - *Flexible hose not a concern*

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 and wall-mounted lights appear to be adequately mounted and secure.*

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

Area Walk-By Checklist (AWC)

AWC # NA2-WB-057


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

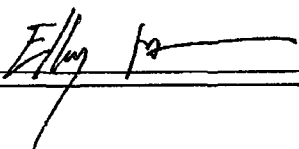
- Temporary scaffold on 291' adequately braced, secured, scaffold 2" clearance from nearby SR SSC's maintained.
- Equipment needed for maintenance in the room is secured and out of the way (chain falls for rigging, parts in whirl packs, flexible hose).

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)

This walkby area also includes the walkby for NA2-WB-056 which is the 291' elevation of the pressurizer cubicle. (The elevation above the 308' platform was designated as NA2-WB-057, whereas the elevation below the 308' platform at the 291' elevation was designated as NA2-WB-056).

Evaluated by: Amanda McEnroe  Date: 10/10/12

Evaluated by: Ellery Baker  Date: 10/10/12

Area Walk-By Checklist (AWC)

AWC # NA2-WB-058Status Y N ULocation: Bldg. U2 MSVH Floor El. 271' Room, Area U2 MSVH-272'**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 # NA2-WB-058

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
Noticed component cooling support with no anchor in southeast corner. Per tag, this has been abandoned in place, along floor. No seismic interaction.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-024, 027*

Walkdown area consisted of entire Room at Elevation 272'-0".

Evaluated by: Tim Knoebel  Date: 7/26/2012

Evaluated by: David DeMello  Date: 7/26/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-059Status Y N ULocation: Bldg. U2 MSVH Floor El. 282' Room, Area U2 MSVH-282'**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 # NA2-WB-059

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-023*

Walkdown area consisted of entire room at Elevation 282'.

Evaluated by: Tim Knoebel  Date: 7/26/2012

Evaluated by: David DeMello  Date: 7/26/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-060Status Y N ULocation: Bldg. U2 OSPH Floor El. 256' Room, Area U2 OSPH-256'**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
Temporary hose connected to 1-PG-1047. Will not impact equipment.

Area Walk-By Checklist (AWC)

AWC # NA2-WB-060

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-040, 042, 059
Boundaries of walkdown was the entire QSPH for Elevation 256'.*

Evaluated by: Tim Knoebel  Date: 7/26/2012

Evaluated by: Dave DeMello  Date: 7/26/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-061

Status Y N U

Location: Bldg. U2 QSPH Floor El. 272' Room, Area U2 QSPH-272'

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 # NA2-WB-061

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
Frisker stand is not secured. It will not impact any equipment, should it move.

Comments (Additional pages may be added as necessary)

Associated Seismic Walkdown Checklists:

NA2-WD-SWEL-017, 060

Walked down entire 272' elevation in Unit 2 Quench Spray Pump House

Evaluated by: Tim Knoebel  Date: 7/26/2012

Evaluated by: David DeMello  Date: 7/26/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-062

Status Y N U

Location: Bldg. U2 Floor El. 256' Room, Area "A" Outside RS Pump Cubicle
Safeguards

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
See #8

Area Walk-By Checklist (AWC)

AWC # NA2-WB-062

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
1/2" nominal Primary Grade (PG) line containing 2-RS-46 needs additional support installed on north wall of cube, unsupported ~ 14'. CR 482925 was written to address. See also comment section.

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-021, 100*

1" nominal RS pump casing drain line unsupported for approximately 15' around pump from 2-RS-47 on pump to 2-RS-157 on floor. CR 482947 was written to address.

Evaluated by: Ellery Baker  Date: 7/26/2012

Evaluated by: William Gallagher  Date: 7/26/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-063Status Y N U

Location: Bldg. U2 Floor El. 256' Room, Area "A" SI Pump Cubicle
Safeguards

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 # NA2-WB-063

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-020*

Evaluated by: Ellery Baker

Date: 7/25/2012

Evaluated by: William Gallagher

Date: 7/25/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-063

Comments (continuation page)

None.

Area Walk-By Checklist (AWC)

AWC # NA2-WB-064

Status Y N U

Location: Bldg. U2 Yard Floor El. 271' Room, Area Casing Cooling Tank

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 # NA2-WB-064

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

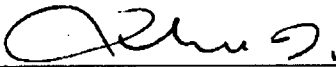
8. Have you looked for and found no other seismic conditions that could adversely affect the safety functions of the equipment in the area? Y N U

- *Minor rust on bracket on frame support for JB LS-QS202 and - 1430-2. Initiated CR 483131.*
- *Pipe cap leak, WO 59102491768 already in place*

Comments (Additional pages may be added as necessary)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-069*

Two (2) anchor bolts are missing on base plate under valve 2-QS-40. Acceptable as design per drawing 12050-PSSK-107AB.01.

Evaluated by: Xuan Hoang  Date: 7/27/2012

Evaluated by: Javier Burgoa  Date: 7/27/2012

Area Walk-By Checklist (AWC)

AWC # NA2-WB-065Status Y N ULocation: Bldg. U2 Yard Floor El. 271' Room, Area RWST and Chem Add Tank**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 # NA2-WB-065

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)

*Associated Seismic Walkdown Checklists:
NA2-WD-SWEL-058, 068, 099*

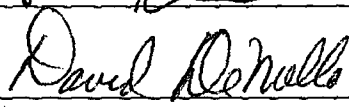
Around tank w/ 35' radius

Evaluated by: Tim Knoebler



Date: 07/31/2012

Evaluated by: David DeMello



Date: 07/31/2012